

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402582

Luminaire Tested: **GAN-AF-02-LED-U-SL4-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2227 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G2

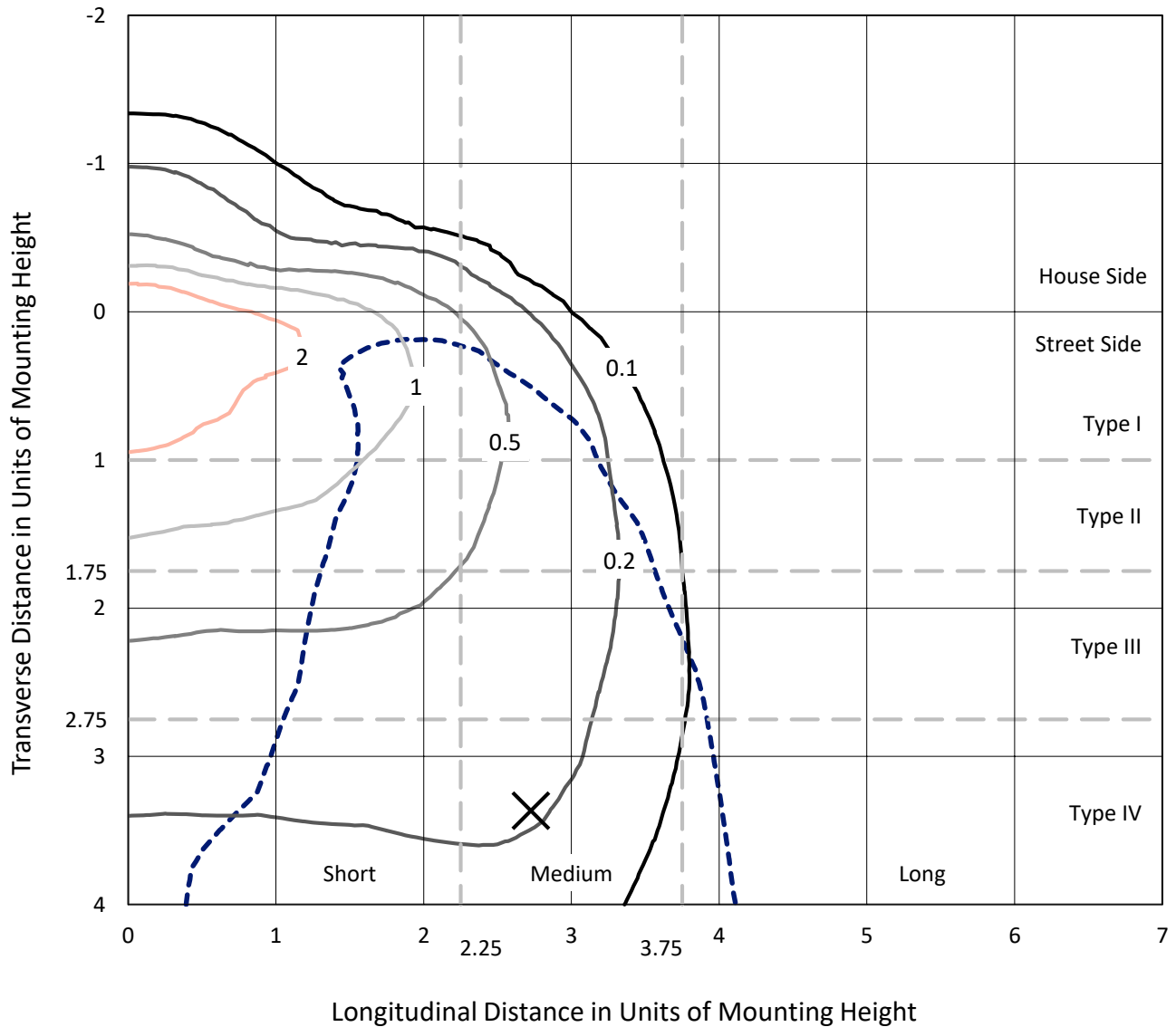
Input Watts (W): 41.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

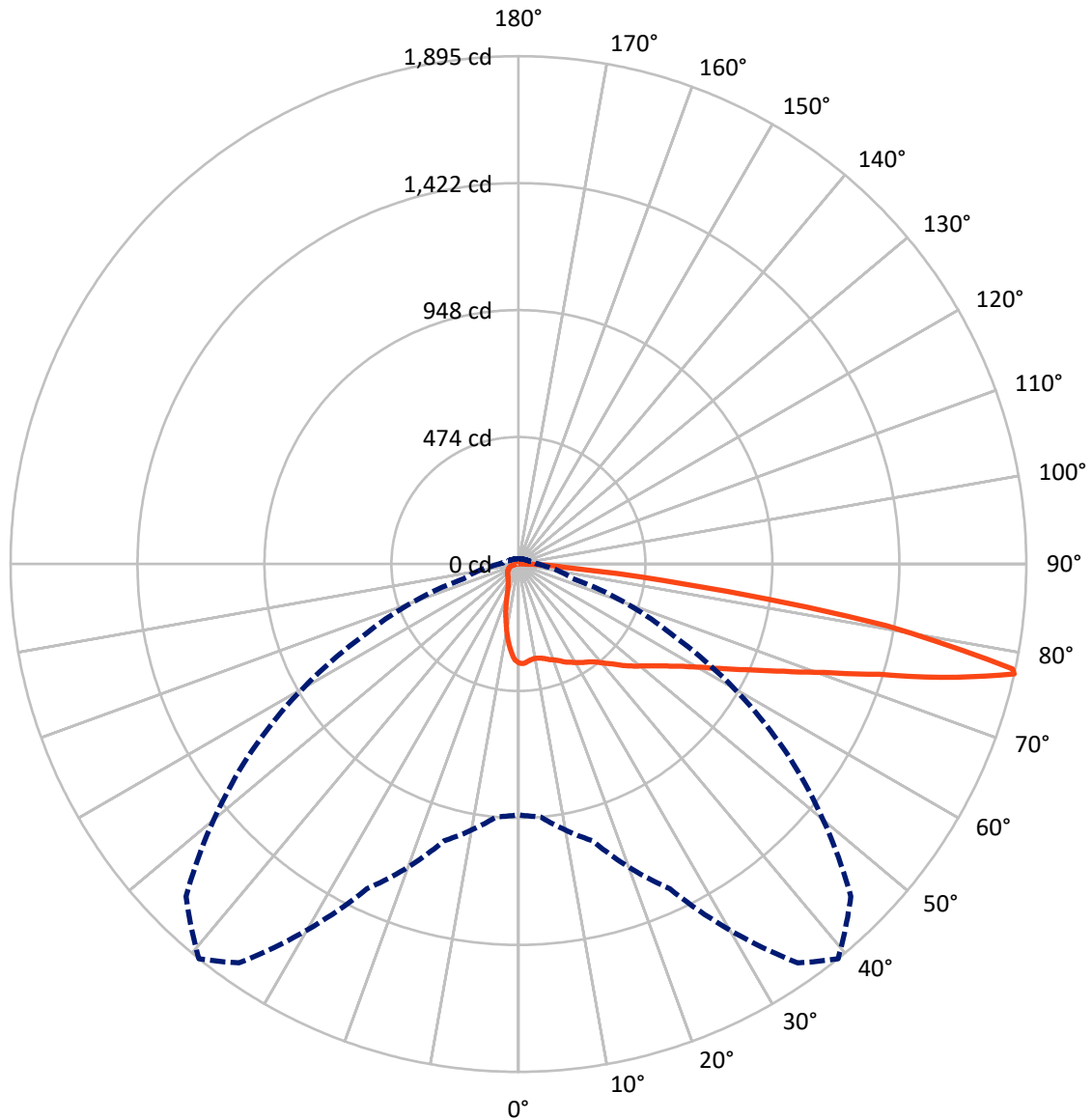


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 77-Deg Vertical



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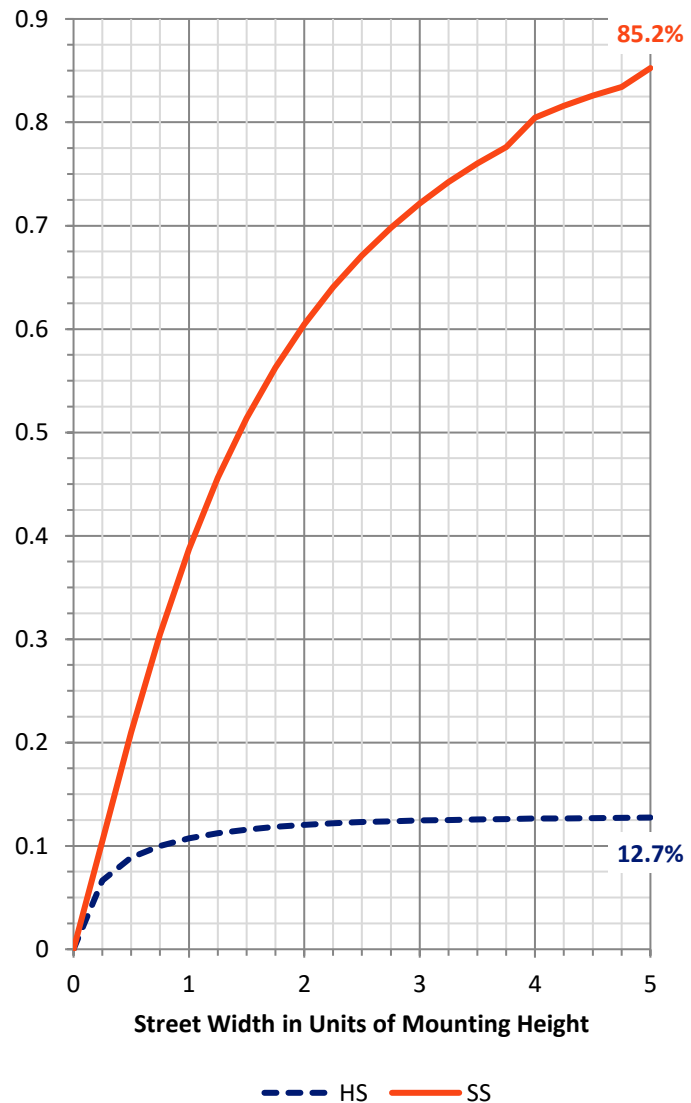
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	287.3	0.0	287.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	1939.7	0.0	1939.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	2227.0	0.0	2227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.5
10°-20°	81.1	3.6
20°-30°	123.9	5.6
30°-40°	178.2	8.0
40°-50°	258.7	11.6
50°-60°	371.3	16.7
60°-70°	511.5	23.0
70°-80°	551.9	24.8
80°-90°	118.1	5.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2227.0	100.0
0°-180°	2227.0	100.0



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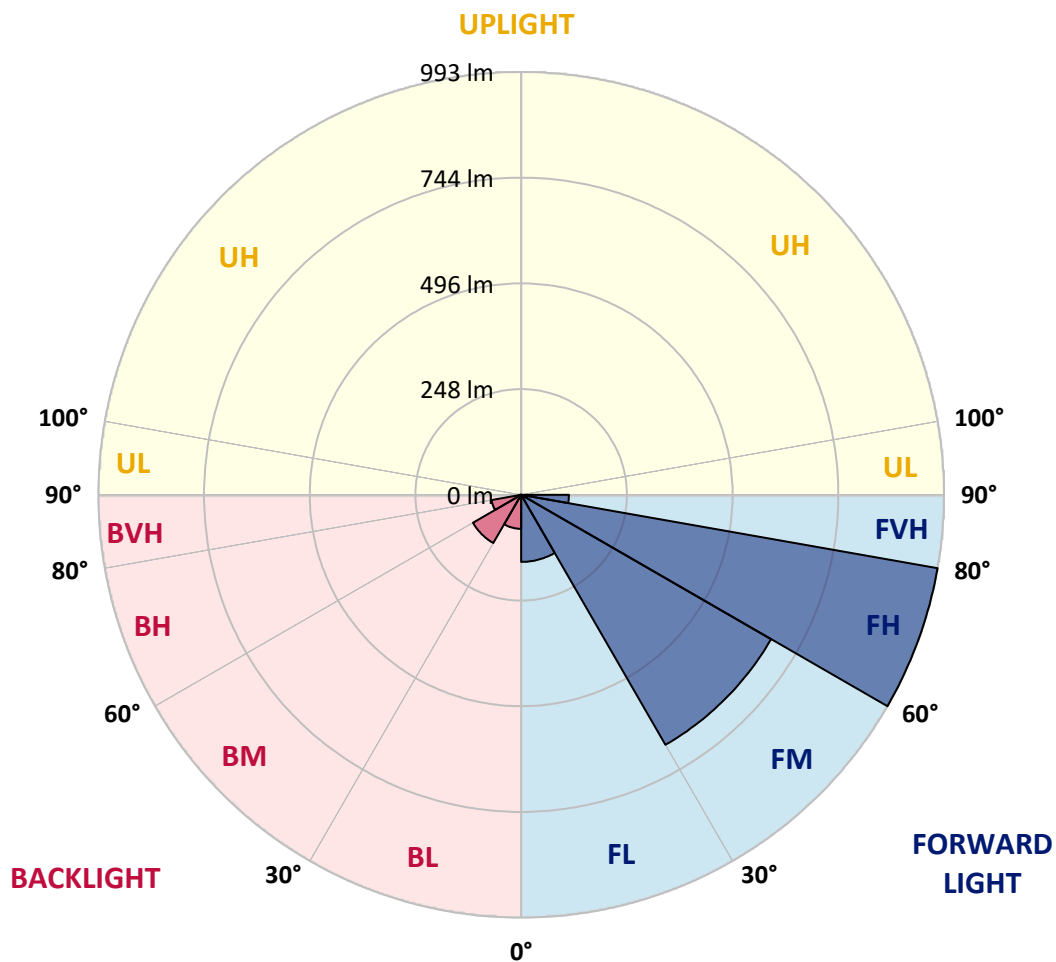
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.5	7.1			
FM (30°-60°)	677.5	30.4			
FH (60°-80°)	992.5	44.6			G1/1800
FVH (80°-90°)	112.1	5.0			G2/225
BL (0°-30°)	79.8	3.6	B0/110		
BM (30°-60°)	130.7	5.9	B0/220		
BH (60°-80°)	70.8	3.2	B0/110		G0/110
BVH (80°-90°)	5.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1
2.5°	374.1	371.1	371.1	374.1	372.1	372.1	370.1	372.1	370.1	368.1	370.1
5°	369.1	367.1	366.1	369.1	367.1	367.1	367.1	366.1	365.1	361.1	361.1
7.5°	360.1	358.1	358.1	361.1	362.1	362.1	360.1	361.1	358.1	354.1	355.1
10°	352.1	351.1	353.1	357.1	359.1	359.1	359.1	358.1	354.1	350.1	349.1
12.5°	346.1	345.1	348.1	356.1	360.1	360.1	361.1	358.1	355.1	350.1	346.1
15°	342.1	342.1	348.1	358.1	364.1	364.1	367.1	365.1	358.1	351.1	346.1
17.5°	344.1	343.1	351.1	363.1	370.1	370.1	375.1	372.1	363.1	354.1	348.1
20°	349.1	347.1	357.1	372.1	381.1	381.1	382.1	384.1	378.1	369.1	359.1
22.5°	351.1	356.1	367.1	384.1	389.1	389.1	392.1	392.1	386.1	373.1	366.1
25°	367.1	368.1	381.1	396.1	401.1	401.1	405.1	403.1	390.1	379.1	375.1
27.5°	384.1	385.1	398.1	409.1	412.1	412.1	415.1	416.1	398.1	387.1	386.1
30°	399.1	403.1	416.1	424.1	424.1	424.1	427.1	426.1	410.1	398.1	400.1
32.5°	425.1	424.1	437.1	438.1	433.1	433.1	438.1	438.1	420.1	412.1	421.1
35°	447.1	451.1	457.1	452.1	445.1	445.1	449.1	451.1	434.1	430.1	448.1
37.5°	477.1	474.1	477.1	468.1	458.1	458.1	463.1	468.1	453.1	455.1	481.1
40°	500.1	495.1	497.1	485.1	475.1	475.1	485.1	490.1	476.1	485.1	527.1
42.5°	519.1	515.1	511.1	504.1	496.1	496.1	509.1	517.1	506.1	525.1	578.1
45°	532.1	529.1	523.1	522.1	523.1	523.1	539.1	549.1	540.1	566.1	642.1
47.5°	540.1	537.1	538.1	540.1	548.1	548.1	569.1	587.1	578.1	620.1	709.1
50°	551.1	546.1	547.1	564.1	576.1	576.1	598.1	627.1	623.1	678.1	780.2
52.5°	565.1	557.1	557.1	587.1	606.1	606.1	631.1	668.1	673.1	738.2	853.2
55°	588.1	578.1	571.1	612.1	645.1	645.1	672.1	715.1	737.2	803.2	929.2
57.5°	613.1	603.1	592.1	644.1	688.1	688.1	720.1	769.2	801.2	877.2	997.2
60°	652.1	634.1	623.1	685.1	748.2	748.2	781.2	841.2	882.2	955.2	1059.2
62.5°	680.1	666.1	663.1	737.2	822.2	822.2	860.2	917.2	960.2	1027.2	1119.2
65°	709.1	701.1	702.1	793.2	910.2	910.2	952.2	1014.2	1060.2	1120.2	1174.2
67.5°	750.2	742.2	759.2	861.2	1012.2	1012.2	1067.2	1130.2	1170.2	1208.2	1183.2
70°	804.2	794.2	825.2	943.2	1139.2	1139.2	1210.2	1282.3	1325.3	1251.3	1152.2
72.5°	860.2	853.2	904.2	1060.2	1317.3	1317.3	1408.3	1490.3	1466.3	1272.3	988.2
75°	928.2	930.2	1012.2	1211.3	1601.3	1601.3	1688.3	1757.4	1520.3	1074.2	584.1
77°	936.2	947.2	1069.2	1337.3	1817.4	1817.4	1895.4	1754.4	1214.3	646.1	209.0
77.5°	903.2	913.2	1056.2	1355.3	1843.4	1843.4	1886.4	1699.4	1134.2	518.1	168.0
80°	673.1	663.1	819.2	1130.2	1481.3	1481.3	1393.3	1017.2	440.1	151.0	87.0
82.5°	266.1	284.1	383.1	557.1	724.1	724.1	636.1	381.1	192.0	91.0	47.0
85°	123.0	132.0	144.0	148.0	187.0	187.0	193.0	143.0	178.0	66.0	22.0
87.5°	90.0	94.0	106.0	94.0	91.0	91.0	86.0	105.0	194.0	33.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1	370.1
2.5°	367.1	364.1	365.1	364.1	362.1	360.1	358.1	356.1	357.1	357.1	354.1
5°	359.1	355.1	353.1	348.1	342.1	336.1	329.1	324.1	320.1	318.1	320.1
7.5°	351.1	346.1	342.1	330.1	320.1	303.1	292.1	277.1	275.1	273.1	271.1
10°	345.1	341.1	331.1	315.1	294.1	274.1	249.1	233.0	223.0	217.0	219.0
12.5°	341.1	336.1	320.1	295.1	268.1	238.0	210.0	189.0	177.0	169.0	167.0
15°	340.1	331.1	308.1	275.1	239.0	205.0	177.0	152.0	133.0	127.0	125.0
17.5°	340.1	328.1	297.1	254.1	212.0	174.0	143.0	120.0	104.0	98.0	96.0
20°	342.1	327.1	284.1	233.0	185.0	143.0	116.0	97.0	88.0	84.0	84.0
22.5°	345.1	326.1	270.1	210.0	159.0	120.0	96.0	85.0	81.0	78.0	78.0
25°	351.1	325.1	258.1	189.0	136.0	103.0	86.0	79.0	75.0	74.0	74.0
27.5°	359.1	326.1	246.1	169.0	115.0	91.0	79.0	75.0	73.0	72.0	72.0
30°	367.1	328.1	233.0	147.0	100.0	82.0	74.0	71.0	70.0	69.0	69.0
32.5°	376.1	330.1	218.0	129.0	89.0	75.0	70.0	68.0	68.0	67.0	66.0
35°	391.1	334.1	201.0	112.0	80.0	70.0	67.0	65.0	65.0	64.0	64.0
37.5°	412.1	339.1	184.0	100.0	74.0	66.0	63.0	63.0	62.0	62.0	61.0
40°	443.1	353.1	170.0	90.0	69.0	63.0	61.0	60.0	60.0	59.0	59.0
42.5°	478.1	370.1	157.0	83.0	66.0	60.0	58.0	58.0	58.0	57.0	56.0
45°	519.1	386.1	145.0	78.0	63.0	58.0	56.0	56.0	55.0	54.0	54.0
47.5°	563.1	406.1	137.0	75.0	62.0	57.0	55.0	53.0	53.0	52.0	52.0
50°	607.1	423.1	130.0	73.0	61.0	55.0	53.0	52.0	51.0	49.0	49.0
52.5°	649.1	441.1	128.0	71.0	59.0	54.0	51.0	50.0	49.0	47.0	47.0
55°	685.1	462.1	130.0	70.0	58.0	52.0	49.0	48.0	47.0	45.0	45.0
57.5°	711.1	473.1	131.0	70.0	57.0	49.0	46.0	47.0	45.0	44.0	44.0
60°	738.2	483.1	130.0	70.0	56.0	46.0	43.0	45.0	44.0	43.0	43.0
62.5°	756.2	479.1	125.0	70.0	55.0	44.0	41.0	44.0	45.0	43.0	44.0
65°	730.2	434.1	110.0	68.0	55.0	42.0	38.0	43.0	46.0	45.0	45.0
67.5°	636.1	328.1	92.0	64.0	53.0	41.0	35.0	39.0	43.0	42.0	43.0
70°	451.1	198.0	76.0	57.0	48.0	39.0	33.0	33.0	34.0	35.0	36.0
72.5°	234.0	108.0	62.0	50.0	42.0	35.0	30.0	28.0	28.0	28.0	29.0
75°	103.0	71.0	51.0	41.0	35.0	30.0	27.0	24.0	24.0	23.0	23.0
77°	72.0	56.0	42.0	34.0	29.0	25.0	24.0	21.0	21.0	20.0	20.0
77.5°	65.0	52.0	41.0	32.0	28.0	24.0	23.0	20.0	20.0	20.0	20.0
80°	44.0	41.0	31.0	24.0	22.0	19.0	18.0	17.0	16.0	16.0	16.0
82.5°	26.0	30.0	22.0	17.0	16.0	14.0	13.0	13.0	13.0	12.0	11.0
85°	16.0	22.0	14.0	11.0	11.0	9.0	9.0	8.0	8.0	7.0	7.0
87.5°	7.0	14.0	8.0	5.0	4.0	3.0	4.0	3.0	3.0	2.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)