

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: INVUE

Report Number: P400901

Luminaire Tested: **ENV-SA1A-727-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1A-727-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1730 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 20.1
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: 25 FT

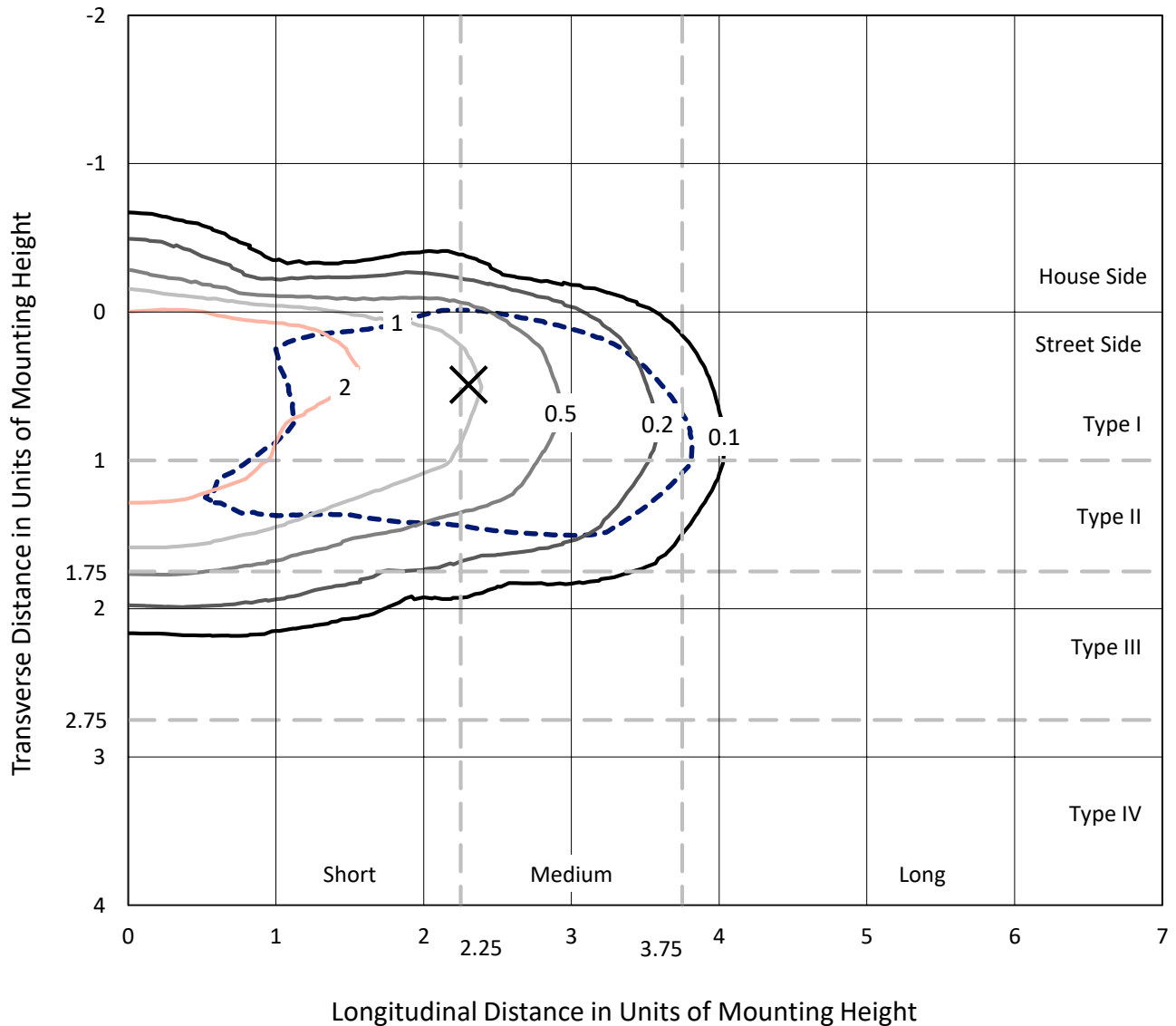


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

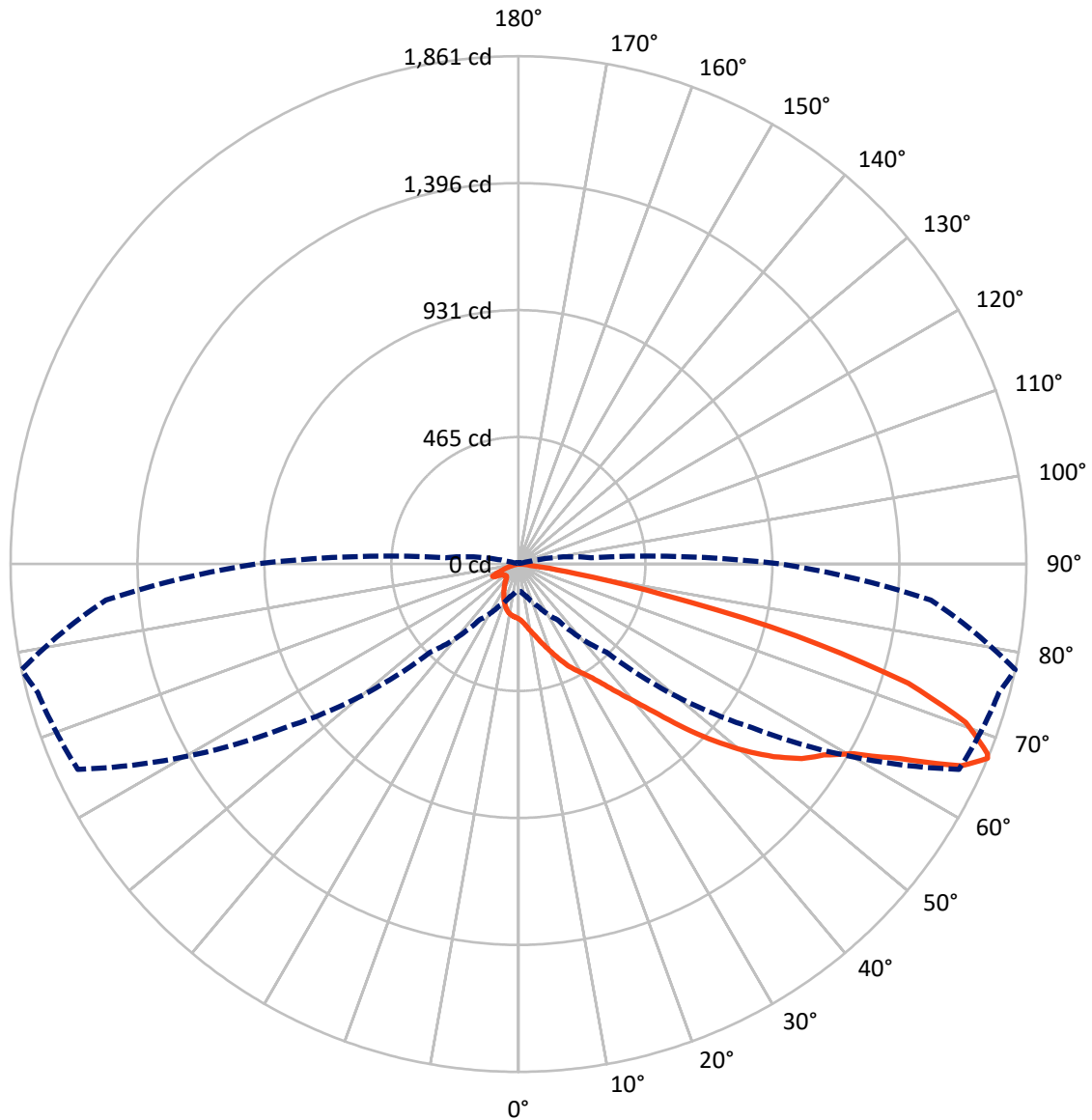


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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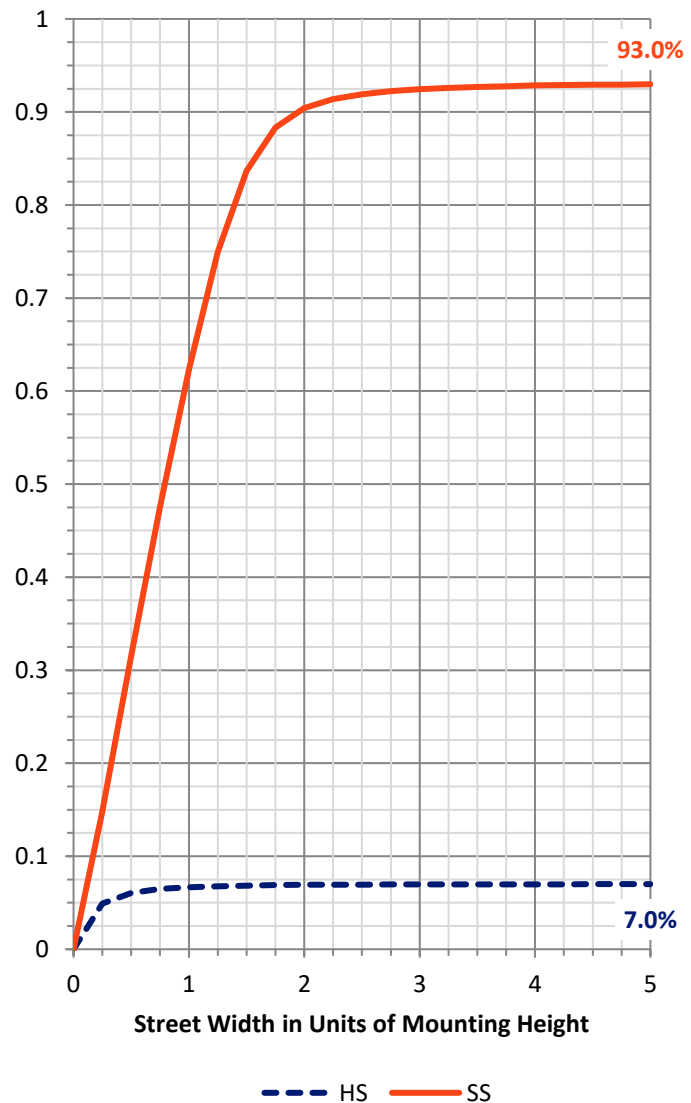
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.1	0.0	122.1
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	1608.0	0.0	1608.0
	% Fixture	92.9	0.0	92.9
Total	Lumens	1730.0	0.0	1730.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	1.1
10°-20°	55.5	3.2
20°-30°	98.0	5.7
30°-40°	172.8	10.0
40°-50°	296.9	17.2
50°-60°	447.0	25.8
60°-70°	439.8	25.4
70°-80°	192.2	11.1
80°-90°	8.5	0.5
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°	1730.0	100.0
0°-180°	1730.0	100.0



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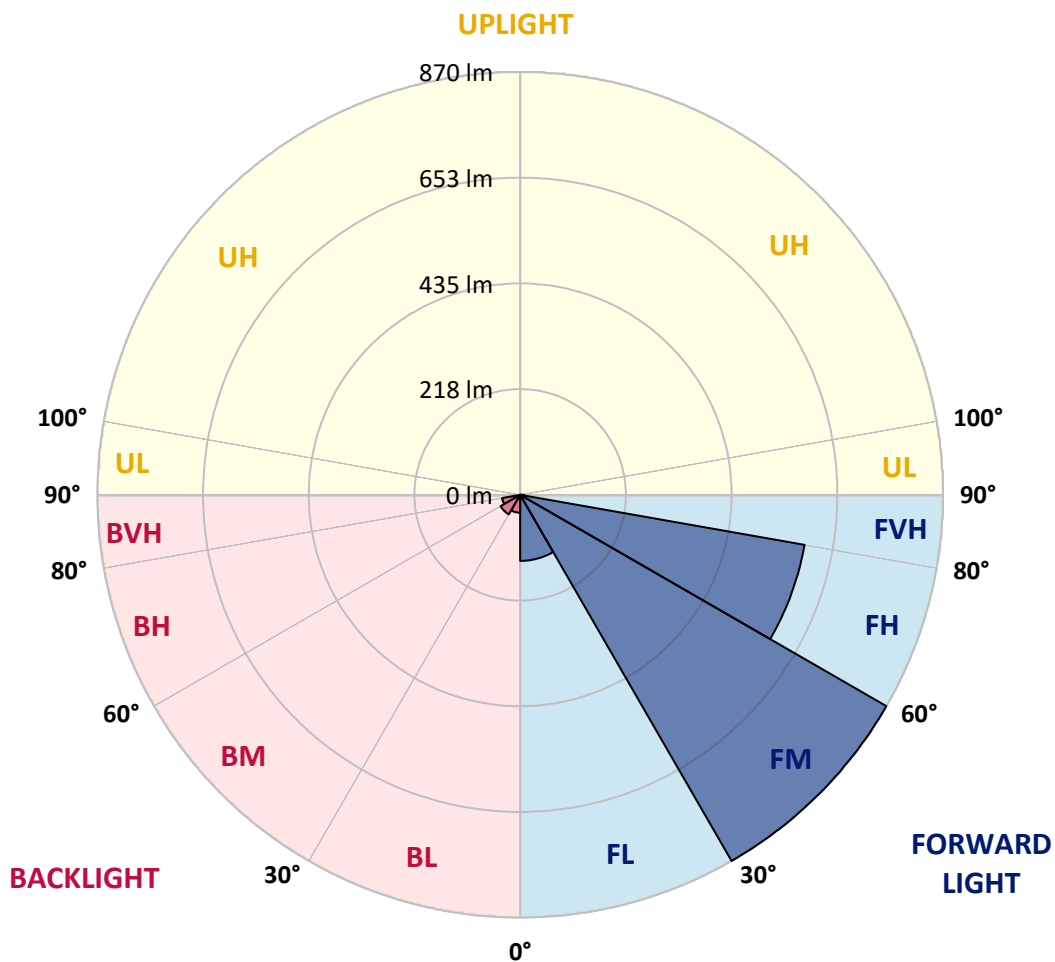
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.9	7.9			
FM (30°-60°)	870.2	50.3			
FH (60°-80°)	594.2	34.3			G0/660
FVH (80°-90°)	7.6	0.4			G0/10
BL (0°-30°)	36.9	2.1	B0/110		
BM (30°-60°)	46.4	2.7	B0/220		
BH (60°-80°)	37.9	2.2	B0/110		G0/110
BVH (80°-90°)	0.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
2.5°	230.4	231.4	230.1	229.1	226.5	223.3	220.0	215.2	210.0	208.0	204.8
5°	258.7	258.7	258.7	256.1	253.8	247.7	240.2	232.7	223.0	219.4	211.9
7.5°	273.7	274.0	275.0	275.0	273.7	269.4	261.3	252.9	238.2	233.4	221.3
10°	275.3	276.6	279.2	283.1	286.0	288.3	283.4	274.3	256.8	250.9	233.4
12.5°	271.1	271.7	275.9	283.1	292.5	301.9	302.3	296.7	277.2	269.1	248.0
15°	261.3	262.3	268.5	279.8	294.5	311.4	321.1	319.5	301.3	291.9	264.2
17.5°	245.7	246.7	254.5	271.4	292.8	317.5	338.3	346.5	325.0	315.9	280.8
20°	245.1	245.4	248.3	261.0	286.3	321.1	355.2	374.4	353.9	344.2	300.3
22.5°	286.7	284.1	277.6	269.4	280.5	320.1	370.5	404.0	389.7	374.4	322.7
25°	333.1	334.1	327.0	307.8	293.8	318.5	382.2	437.5	423.2	407.9	345.8
27.5°	381.9	380.3	374.1	356.5	333.1	330.2	390.7	464.5	455.4	436.8	366.3
30°	429.4	428.1	423.5	405.6	380.3	360.4	397.2	488.8	485.9	465.4	382.9
32.5°	483.6	485.9	480.1	456.7	425.8	401.4	411.2	514.5	523.0	497.9	400.1
35°	546.7	546.7	534.7	513.2	481.4	447.2	439.1	542.8	570.1	543.1	427.4
37.5°	598.7	602.9	595.8	564.9	535.0	499.2	481.7	577.6	628.3	601.0	464.1
40°	639.6	646.8	647.1	616.6	588.9	565.5	541.2	626.6	701.4	666.3	508.0
42.5°	677.7	679.0	684.5	666.9	639.3	633.1	608.1	684.8	792.7	751.4	566.5
45°	726.1	728.7	725.4	712.4	688.7	696.8	682.9	758.6	895.4	860.7	635.4
47.5°	797.3	803.5	798.6	775.2	746.2	761.5	751.4	832.1	1011.5	969.2	710.2
50°	863.9	868.8	874.0	866.5	837.6	823.0	810.6	909.7	1110.9	1075.2	783.6
52.5°	871.1	875.6	904.2	930.5	949.7	911.4	872.7	988.4	1202.9	1173.0	850.9
55°	824.6	827.5	875.3	927.3	1015.4	1028.4	964.0	1066.1	1279.9	1259.5	896.1
57.5°	695.2	707.6	775.5	855.1	999.1	1097.9	1093.7	1156.4	1330.0	1320.6	954.3
60°	456.7	470.3	551.6	672.1	879.5	1079.4	1236.1	1292.0	1400.2	1410.6	1056.3
62.5°	236.6	252.5	324.0	431.0	637.4	940.0	1284.5	1514.6	1534.7	1570.2	1238.3
65°	135.2	138.5	174.2	252.5	394.6	673.1	1226.3	1735.0	1711.9	1783.7	1470.7
67°	100.4	100.4	125.5	171.6	249.9	457.6	1045.9	1781.4	1823.4	1861.4	1517.5
67.5°	90.0	94.9	116.4	158.3	224.3	406.0	978.6	1769.1	1830.5	1854.2	1501.3
70°	61.8	65.0	83.5	113.4	151.1	211.3	641.6	1564.7	1763.6	1739.5	1360.5
72.5°	37.1	38.4	55.3	81.6	112.8	113.1	350.0	1187.6	1494.4	1494.1	1111.2
75°	23.1	24.4	32.5	54.6	79.0	70.9	161.9	808.0	1073.2	1052.4	744.6
77.5°	13.0	15.0	19.5	29.9	50.1	45.2	68.3	452.8	579.8	544.1	369.9
80°	5.2	6.2	11.1	14.3	28.3	27.0	28.0	159.3	234.7	211.6	123.8
82.5°	1.3	1.6	3.9	6.8	11.1	11.1	8.8	43.6	55.6	51.7	31.9
85°	0.0	0.0	0.3	0.3	0.3	0.7	2.3	4.9	5.9	6.8	5.2
87.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.7	1.0	1.0	1.0	1.0
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°	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
2.5°	202.2	199.9	195.3	190.5	185.6	181.7	178.4	173.9	173.2	173.2	173.2
5°	206.4	201.2	190.8	180.4	170.0	160.6	153.7	148.2	143.3	141.7	143.0
7.5°	212.6	203.1	184.9	166.7	150.5	137.2	127.4	119.6	116.0	114.1	112.5
10°	220.7	206.1	177.1	150.5	130.0	114.1	103.7	96.2	92.6	90.4	90.7
12.5°	229.5	208.3	167.4	132.9	110.2	95.6	86.8	80.6	74.8	71.2	72.2
15°	238.2	210.0	155.4	116.7	94.9	81.9	69.6	58.5	54.6	54.0	53.6
17.5°	248.0	209.6	142.0	101.4	81.9	63.7	51.4	50.1	49.7	49.7	49.4
20°	258.1	208.0	126.8	88.7	68.9	48.4	46.5	45.8	44.9	44.5	44.2
22.5°	269.1	205.1	112.8	77.7	51.4	44.2	41.6	39.7	38.0	37.1	37.4
25°	279.2	199.6	99.1	67.3	43.9	39.7	36.1	33.2	31.5	30.2	30.6
27.5°	286.0	189.8	87.4	54.3	40.3	35.1	30.9	28.0	25.7	24.7	24.7
30°	286.7	175.8	77.0	44.5	36.7	30.9	26.3	23.1	21.8	21.1	20.8
32.5°	286.0	161.5	69.2	41.0	33.5	27.0	22.4	20.2	18.9	18.2	18.2
35°	289.3	146.9	62.1	37.7	29.9	23.7	19.8	17.6	16.6	15.9	15.9
37.5°	299.0	136.8	54.6	34.5	26.7	20.8	17.9	15.9	15.0	14.3	14.3
40°	312.3	128.4	45.5	31.2	23.4	18.9	16.3	14.6	13.3	12.7	12.7
42.5°	335.7	125.1	38.0	28.0	20.5	16.9	15.0	13.0	11.7	11.1	11.1
45°	370.5	126.8	34.8	25.0	18.5	15.3	13.3	11.4	10.1	9.8	9.8
47.5°	408.9	133.6	32.5	22.4	16.9	14.3	12.0	10.1	8.8	8.5	8.5
50°	451.8	144.3	30.6	19.8	15.3	13.0	10.7	8.8	7.8	7.5	7.5
52.5°	492.7	158.0	28.6	17.9	14.3	11.7	9.4	7.8	7.2	6.8	6.8
55°	523.9	166.7	27.0	16.6	13.3	10.7	8.5	7.5	6.5	6.2	6.2
57.5°	567.5	181.4	25.0	15.0	12.0	9.8	7.8	6.8	5.9	5.9	5.9
60°	655.9	220.7	22.1	13.7	10.7	8.8	7.5	6.2	5.5	5.2	5.2
62.5°	815.2	285.7	19.2	12.7	9.4	7.8	6.5	5.5	4.9	4.2	4.2
65°	968.6	312.7	16.3	11.1	8.5	6.8	5.9	4.9	3.6	2.9	2.9
67°	960.1	267.5	13.7	9.4	7.2	6.2	4.9	3.9	2.6	1.6	1.6
67.5°	937.4	249.0	13.3	9.1	6.8	5.9	4.9	3.6	2.3	1.3	1.3
70°	796.6	174.2	10.4	7.2	5.9	5.2	3.9	2.6	1.3	0.7	0.7
72.5°	647.1	138.1	8.1	5.9	4.9	3.9	3.3	1.6	1.0	0.3	0.3
75°	457.6	84.8	7.2	5.2	3.9	2.9	2.6	1.6	1.0	0.7	0.3
77.5°	225.9	39.0	5.9	4.6	3.6	2.9	2.3	2.0	1.6	1.3	0.7
80°	66.3	12.7	3.9	3.3	3.3	2.9	2.6	2.3	2.0	1.6	1.0
82.5°	15.0	4.6	1.3	1.6	2.3	2.3	2.3	1.6	1.3	0.7	0.3
85°	2.0	1.0	1.0	1.0	1.3	1.3	1.0	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	1.0	1.0	1.0	0.7	0.3	0.3	0.0	0.0
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)