

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: P400942

Luminaire Tested: **ENV-SA1A-735-U-T4FT**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1A-735-U-T4FT
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

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

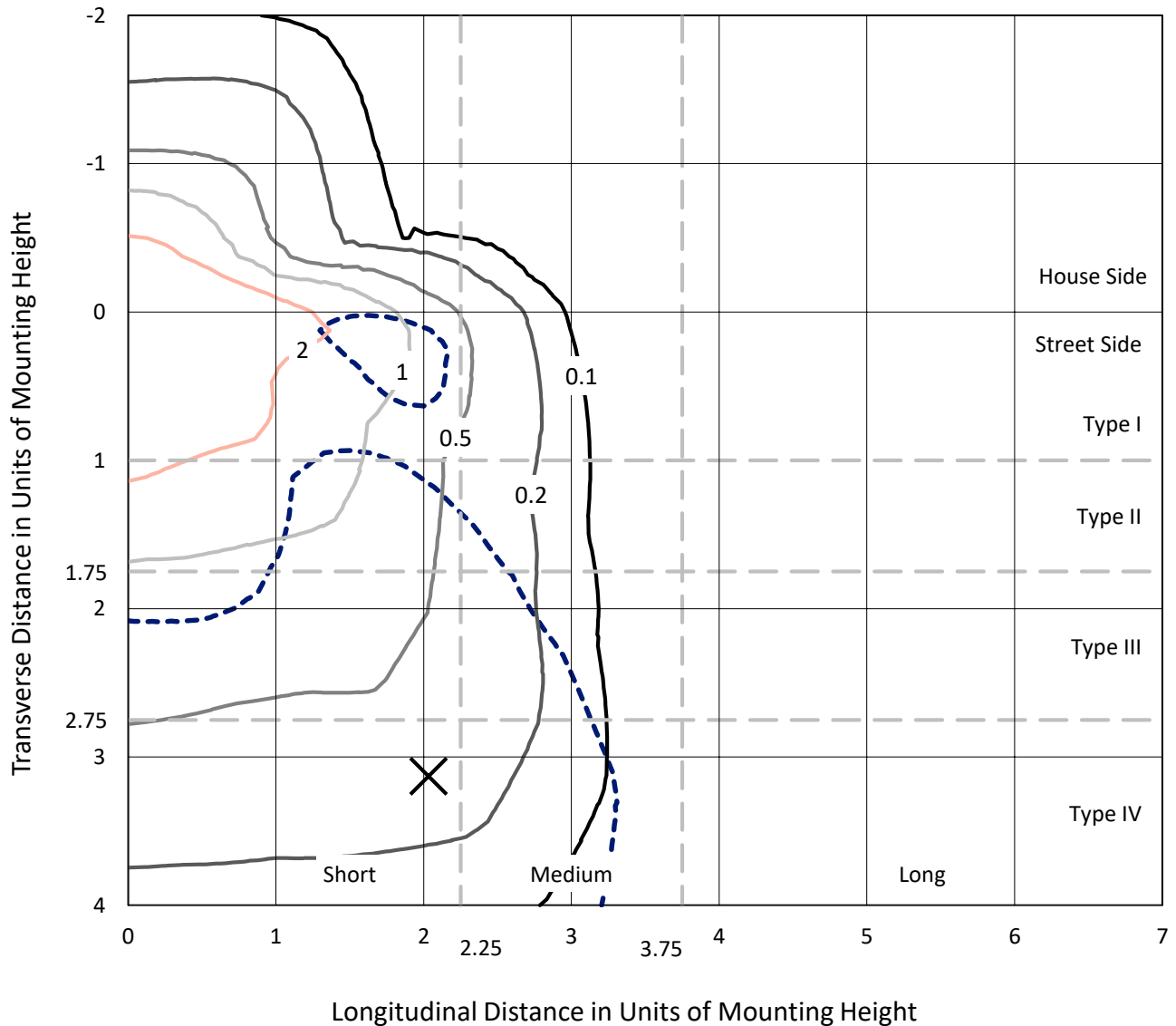


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

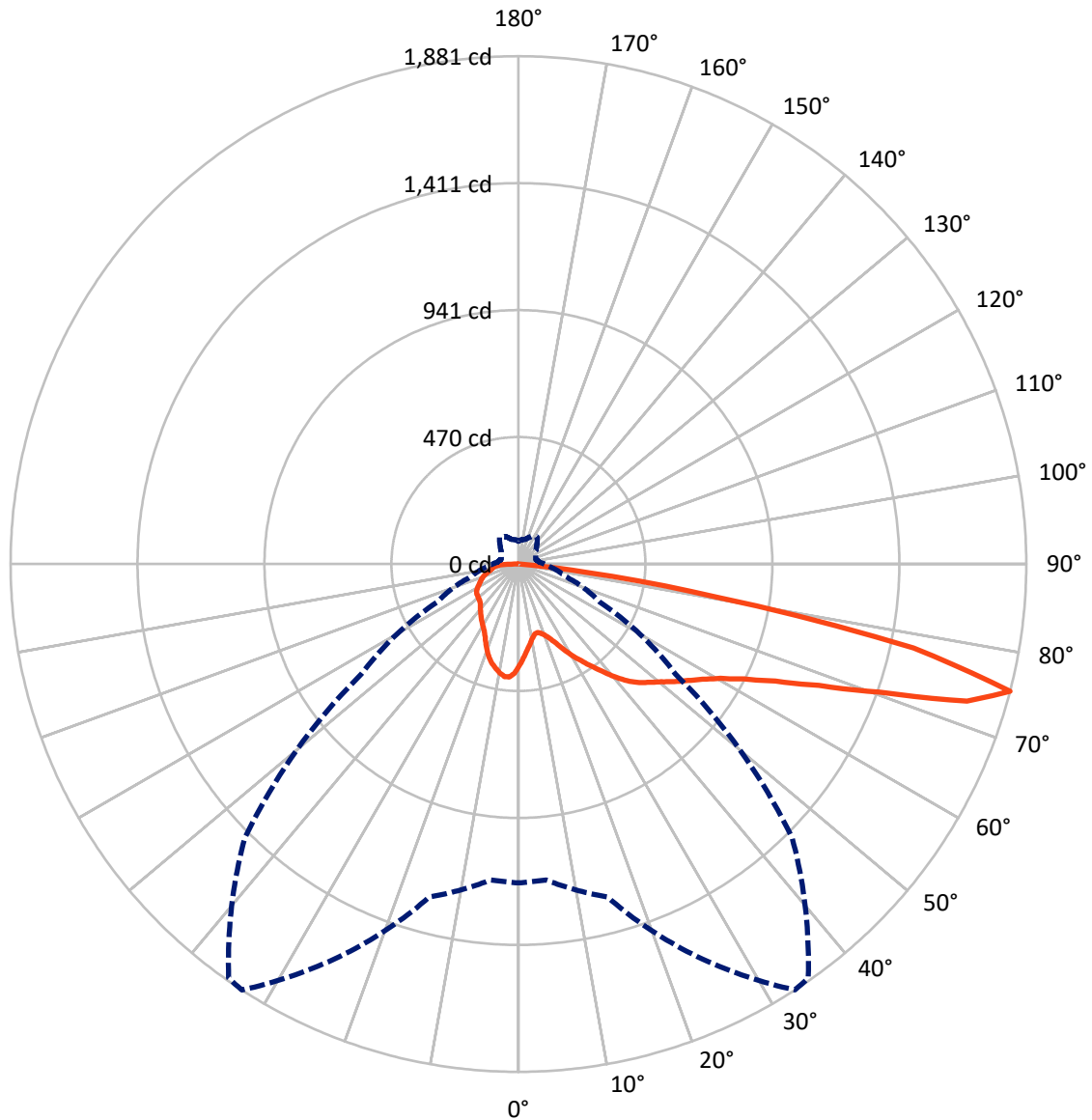


Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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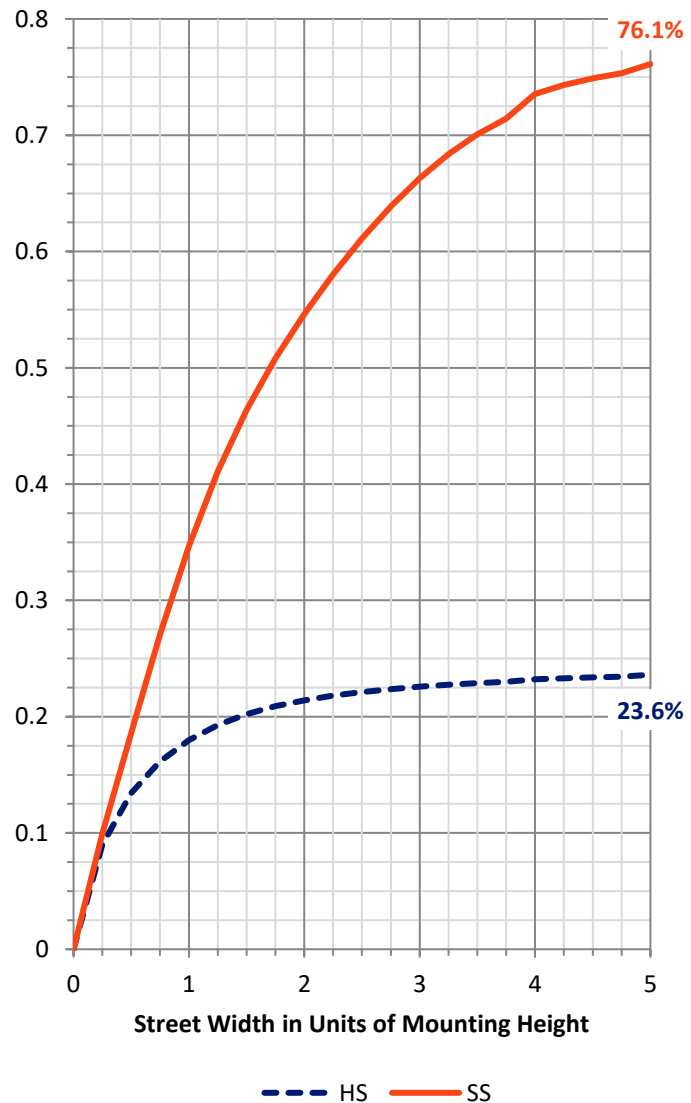
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.4	0.0	597.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	1861.6	0.0	1861.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	2459.0	0.0	2459.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.4
10°-20°	99.0	4.0
20°-30°	164.6	6.7
30°-40°	245.6	10.0
40°-50°	343.1	14.0
50°-60°	457.9	18.6
60°-70°	567.8	23.1
70°-80°	490.9	20.0
80°-90°	54.9	2.2
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°	2459.0	100.0
0°-180°	2459.0	100.0



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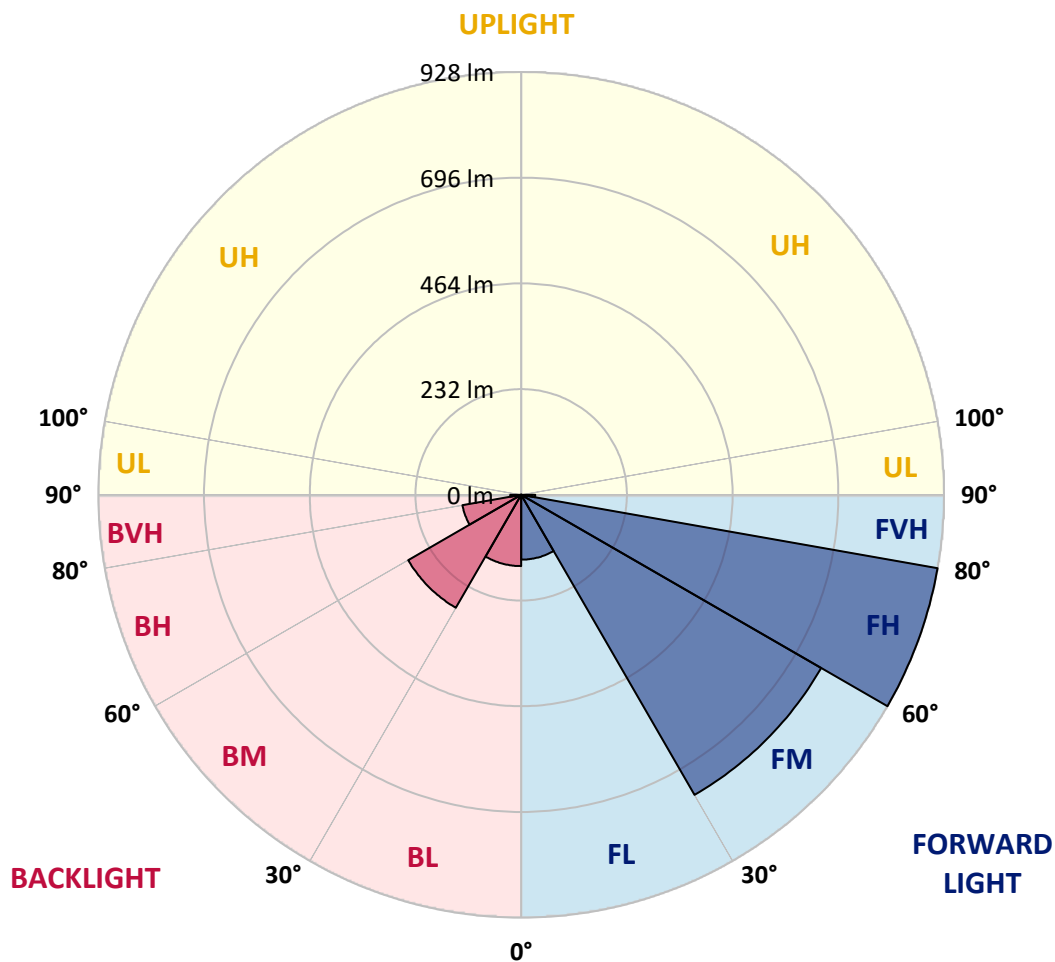
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.4	5.8			
FM (30°-60°)	760.3	30.9			
FH (60°-80°)	927.9	37.7			G1/1800
FVH (80°-90°)	31.0	1.3			G1/100
BL (0°-30°)	156.4	6.4	B1/500		
BM (30°-60°)	286.2	11.6	B1/1000		
BH (60°-80°)	130.8	5.3	B1/500		G1/500
BVH (80°-90°)	23.9	1.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8
2.5°	341.7	342.5	344.7	347.2	348.7	348.7	352.7	357.4	363.3	368.4	373.9
5°	313.3	314.4	316.2	319.5	323.5	324.2	332.2	340.6	351.2	362.6	373.5
7.5°	285.2	287.3	291.0	295.4	301.6	303.0	314.4	325.7	340.3	357.4	375.3
10°	263.6	265.1	266.9	273.1	280.8	283.3	298.3	312.5	332.6	353.8	377.5
12.5°	257.8	257.8	257.8	260.7	266.9	269.1	284.8	303.0	325.7	351.2	380.8
15°	266.2	265.8	261.8	259.6	263.2	265.1	278.6	296.5	322.0	352.0	387.0
17.5°	285.2	284.1	274.6	267.3	269.8	270.9	279.7	295.0	320.9	354.9	396.1
20°	310.0	307.4	292.8	281.9	281.5	282.2	288.8	299.4	322.8	360.0	406.0
22.5°	342.8	341.4	319.8	303.0	300.1	300.1	303.0	309.6	327.5	365.8	419.5
25°	385.2	381.2	355.3	332.6	326.0	324.2	323.9	323.9	335.9	374.6	436.3
27.5°	428.6	423.9	397.6	366.9	358.2	354.9	349.0	344.7	346.9	384.1	456.4
30°	467.7	461.1	438.9	407.1	394.0	388.8	378.3	369.1	363.3	397.2	483.0
32.5°	489.2	486.7	471.4	442.5	427.5	425.4	407.8	395.8	385.6	414.4	518.8
35°	518.1	514.8	504.9	481.2	463.3	457.8	444.7	430.5	414.0	437.4	564.1
37.5°	544.7	542.9	539.3	522.8	503.9	498.4	486.3	471.4	449.1	471.4	614.8
40°	571.8	569.6	568.1	562.3	548.8	545.1	539.3	521.7	491.8	508.6	664.9
42.5°	611.2	606.4	591.1	590.7	591.8	594.8	595.1	575.8	538.5	555.0	708.7
45°	662.7	649.5	615.2	614.1	626.9	634.6	653.2	636.8	587.1	602.4	757.6
47.5°	689.0	675.5	640.0	637.8	654.6	666.0	712.0	695.9	637.5	655.7	808.4
50°	701.7	693.0	661.9	668.9	686.0	697.0	767.8	755.0	689.7	713.4	872.2
52.5°	719.6	705.0	683.1	697.7	723.3	734.6	817.8	815.7	733.9	776.2	942.3
55°	713.4	705.8	709.8	729.5	761.6	778.4	868.2	868.2	778.8	843.4	1011.7
57.5°	718.5	713.4	746.6	764.2	804.7	828.8	928.8	912.8	816.7	899.6	1058.5
60°	762.0	747.4	773.3	808.0	860.2	883.6	998.2	959.5	847.8	948.2	1066.8
62.5°	838.7	827.0	829.5	869.3	936.9	963.9	1066.8	1000.8	868.6	968.6	1035.4
65°	965.7	960.2	928.8	952.9	1046.0	1070.5	1152.6	1036.5	862.8	953.3	952.6
67.5°	1136.6	1114.7	1072.3	1093.9	1201.2	1226.0	1256.0	1050.1	824.8	861.7	765.6
70°	1278.2	1260.0	1240.6	1297.2	1420.6	1434.1	1363.7	1037.3	732.4	674.4	513.3
72.5°	1368.4	1355.3	1373.2	1539.7	1737.2	1711.6	1469.9	947.8	571.4	412.9	256.7
75°	1181.1	1174.9	1277.2	1614.9	1881.4	1871.9	1433.1	709.4	331.5	181.8	116.8
77.5°	594.0	661.6	769.3	1145.7	1496.9	1498.8	1044.2	341.0	139.5	101.9	80.3
80°	167.2	169.4	256.7	472.5	747.4	796.3	395.0	115.7	79.6	75.9	59.9
82.5°	39.8	36.9	65.7	139.8	250.8	261.1	118.7	41.6	44.5	47.5	36.9
85°	0.4	0.4	0.4	0.4	0.4	0.7	4.4	4.4	10.6	13.5	10.6
87.5°	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8	376.8
2.5°	376.4	380.1	385.9	391.0	395.4	398.7	403.8	404.5	406.0	406.7	407.5
5°	379.7	386.7	397.6	407.1	413.7	415.5	419.9	419.5	419.9	419.9	419.5
7.5°	384.1	393.6	408.9	419.5	423.2	422.1	421.0	417.0	413.7	412.2	410.4
10°	389.6	400.5	418.4	426.1	424.3	418.4	411.5	404.2	398.3	395.4	394.7
12.5°	395.0	409.3	426.1	428.3	421.0	410.4	398.7	390.7	383.0	379.0	379.0
15°	404.2	419.9	432.3	427.9	414.8	401.3	385.2	374.2	365.5	360.0	359.6
17.5°	415.1	431.9	438.9	426.1	407.1	388.1	368.8	354.5	343.2	337.7	334.4
20°	428.6	444.3	442.1	420.2	395.8	372.4	348.3	331.2	319.5	313.6	312.5
22.5°	444.0	457.1	443.2	410.7	380.4	350.5	324.2	307.1	299.4	295.0	295.4
25°	462.6	472.8	443.6	399.4	358.5	321.7	298.7	290.6	289.5	287.7	288.4
27.5°	486.0	489.2	442.1	384.1	330.4	291.4	277.8	281.1	284.1	283.0	283.7
30°	513.7	509.0	438.9	361.8	295.7	263.6	264.3	271.6	275.7	274.6	274.9
32.5°	546.2	528.7	432.7	334.8	262.9	246.8	252.7	260.0	264.0	264.0	264.3
35°	582.7	552.4	420.6	299.8	239.9	236.6	241.7	247.5	250.1	248.6	249.7
37.5°	621.1	572.9	401.3	260.7	222.7	228.6	231.5	232.9	232.6	230.4	229.3
40°	656.8	588.9	366.6	222.0	208.5	220.2	221.6	217.6	212.9	208.8	206.3
42.5°	684.2	597.3	318.4	193.9	195.0	210.7	211.8	203.7	194.6	188.4	186.9
45°	712.3	600.2	270.5	171.2	180.4	201.2	204.1	193.1	180.7	173.4	172.3
47.5°	744.5	607.5	223.4	155.5	168.0	194.6	199.3	185.8	172.0	161.0	159.2
50°	787.5	621.4	188.0	143.5	159.2	191.3	197.9	180.0	162.5	150.4	149.0
52.5°	842.3	641.9	155.2	134.0	152.3	186.2	195.7	174.2	155.5	140.9	138.7
55°	889.4	649.5	134.0	126.0	144.9	180.0	193.9	172.0	147.9	131.4	128.9
57.5°	910.9	627.6	119.0	117.9	137.3	172.3	190.2	164.7	139.5	126.7	124.5
60°	901.1	573.2	107.7	110.6	128.5	162.5	180.7	157.4	133.6	123.0	120.9
62.5°	857.3	510.4	99.3	103.7	118.7	150.1	169.8	150.8	128.5	119.0	116.1
65°	780.2	441.4	93.1	97.5	109.9	138.0	161.0	143.1	122.7	113.2	110.6
67.5°	636.8	351.2	86.5	91.3	102.6	128.2	153.0	136.9	116.1	109.9	107.7
70°	421.3	236.2	80.3	85.1	95.3	118.7	144.6	130.3	109.9	105.9	103.0
72.5°	193.5	127.1	73.8	78.5	86.9	108.1	134.0	120.5	101.5	98.9	94.6
75°	95.7	78.1	65.7	70.1	76.7	95.3	121.6	112.1	93.8	89.5	84.3
77.5°	69.7	58.4	56.6	61.0	66.4	84.3	108.4	103.3	86.2	80.0	77.0
80°	51.8	45.3	47.5	51.8	57.0	76.3	101.5	96.8	79.6	73.4	71.2
82.5°	31.8	30.3	36.5	41.6	47.8	70.1	96.8	88.4	71.6	65.7	63.2
85°	9.1	11.0	18.6	27.0	34.0	56.6	90.2	77.4	60.2	50.4	48.6
87.5°	0.0	1.1	5.8	12.4	20.1	37.6	69.4	60.6	46.0	37.2	35.8
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)