

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: McGRAW-EDISON

Report Number: P526229

Luminaire Tested: **GALN-SA1A-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2146 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 33
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: 24 FT



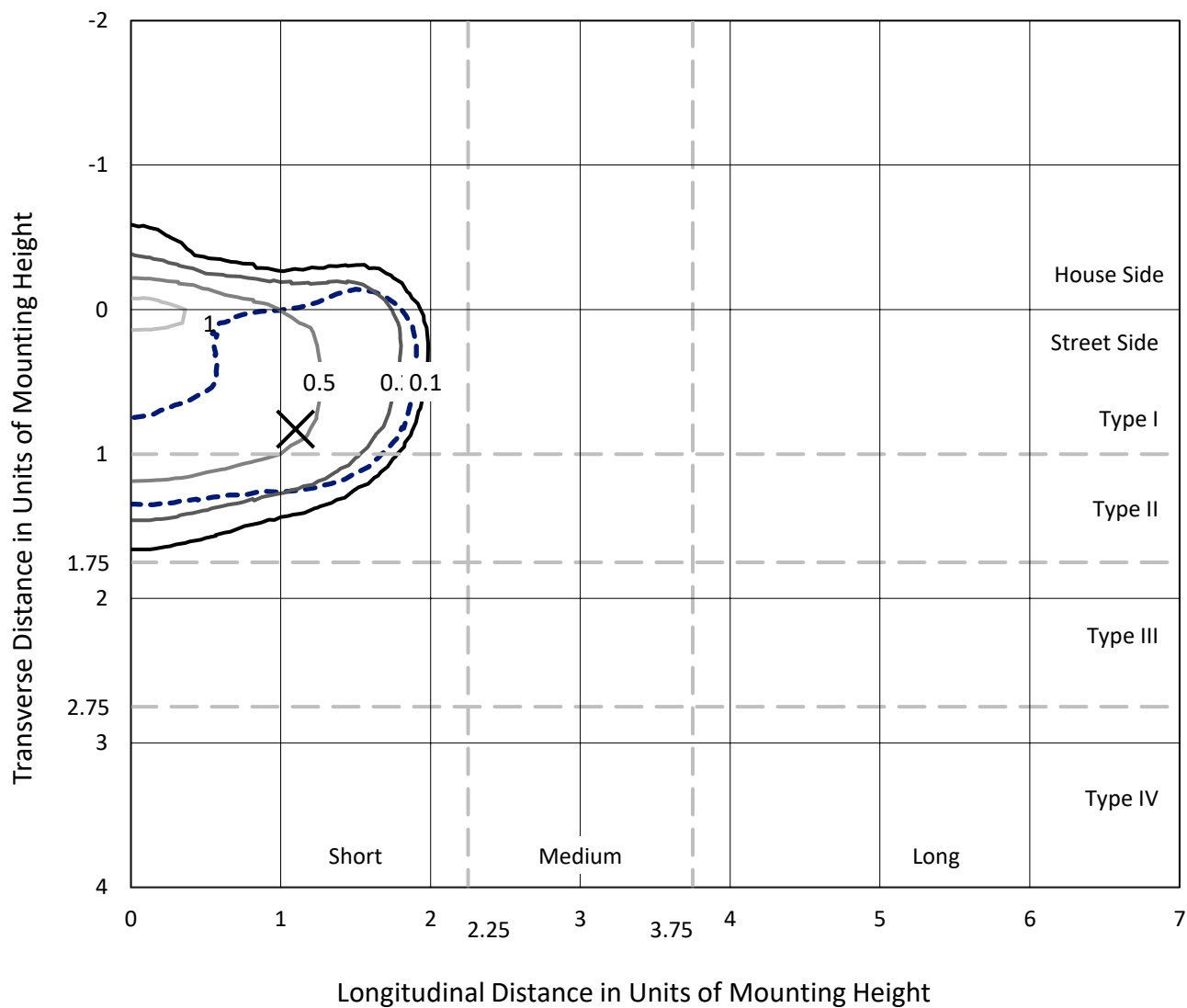
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

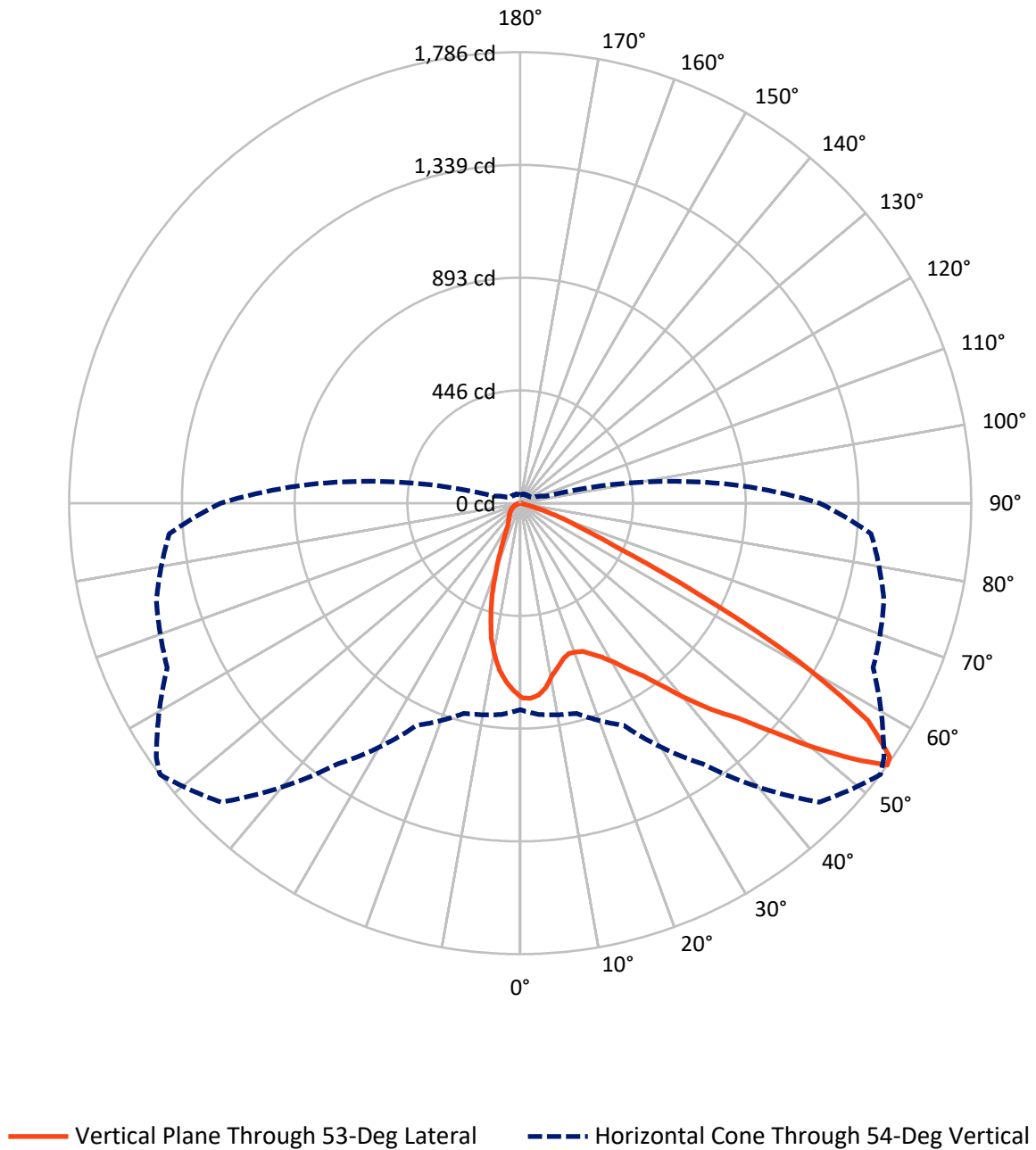


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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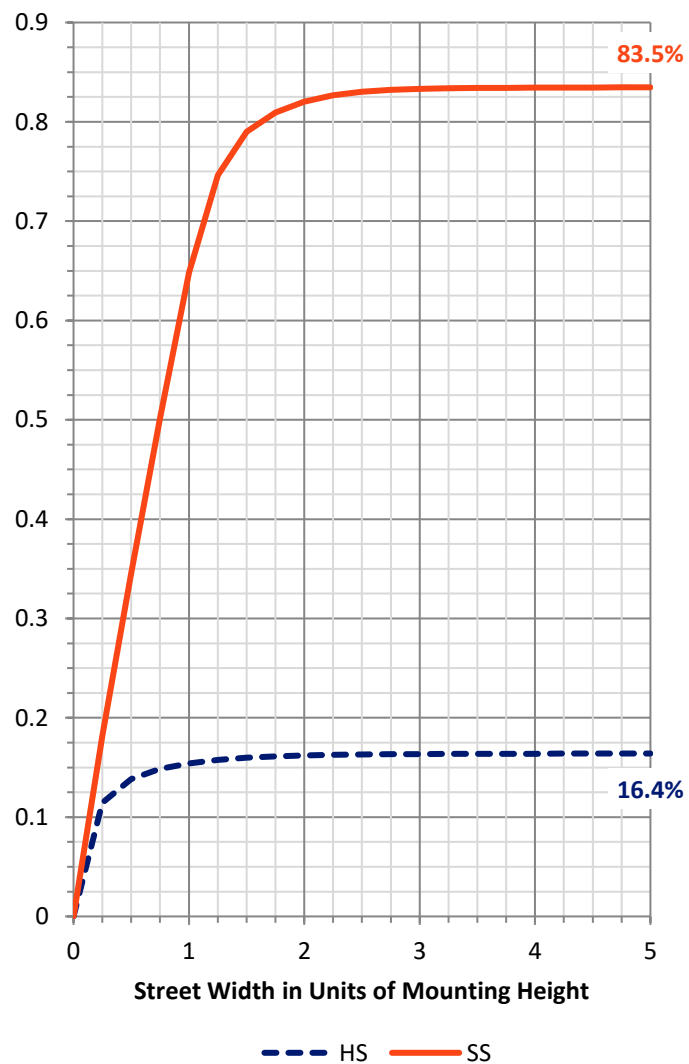
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.1	0.0	355.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	1790.9	0.0	1790.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	2146.0	0.0	2146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.1
10°-20°	151.6	7.1
20°-30°	215.5	10.0
30°-40°	332.6	15.5
40°-50°	521.4	24.3
50°-60°	605.7	28.2
60°-70°	228.9	10.7
70°-80°	21.8	1.0
80°-90°	2.5	0.1
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°	2146.0	100.0
0°-180°	2146.0	100.0

Coefficient of Utilization



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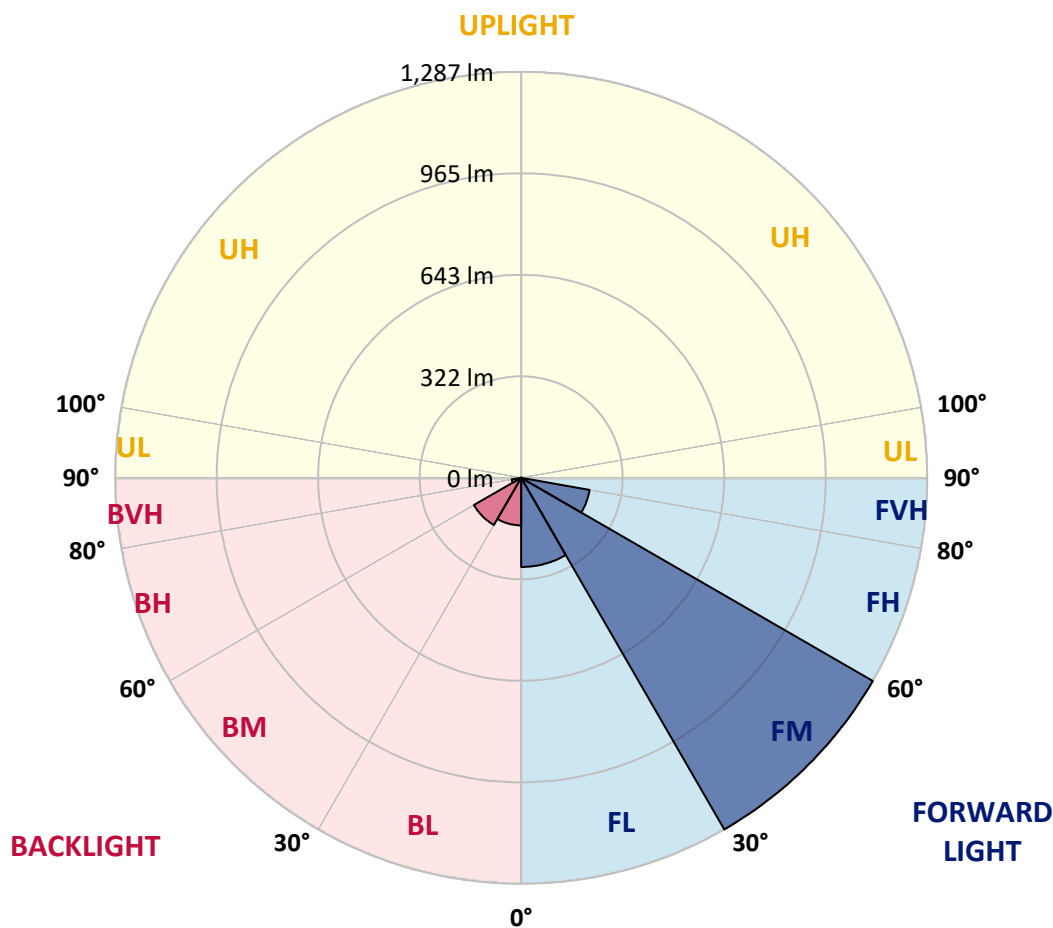
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.6	13.2			
FM	(30°-60°)	1286.9	60.0			
FH	(60°-80°)	220.2	10.3			G0/660
FVH	(80°-90°)	1.3	0.1			G0/10
BL	(0°-30°)	150.7	7.0	B1/500		
BM	(30°-60°)	172.8	8.1	B0/220		
BH	(60°-80°)	30.4	1.4	B0/110		G0/110
BVH	(80°-90°)	1.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	766.8	760.0	766.8	767.6	772.4	776.8	774.0	780.4	776.8	772.8	771.6
5°	704.8	714.0	714.4	728.8	725.6	752.0	763.6	760.4	780.0	778.8	776.0
7.5°	649.3	645.7	650.5	667.3	688.4	718.8	735.6	735.2	763.2	783.2	781.2
10°	597.7	597.3	607.3	620.5	638.5	670.5	693.6	705.2	748.8	779.2	783.6
12.5°	562.9	561.3	572.1	582.9	611.3	636.1	665.7	671.3	721.2	765.2	772.4
15°	540.1	543.7	544.5	565.3	583.3	616.1	639.3	650.9	708.4	754.0	781.6
17.5°	536.1	540.9	541.3	558.5	577.7	605.3	625.7	641.3	697.6	759.6	782.0
20°	544.1	541.3	543.7	554.5	573.3	599.7	629.3	634.5	694.0	762.4	786.4
22.5°	566.9	566.1	560.1	568.9	582.1	609.7	637.7	645.7	704.4	776.8	790.0
25°	592.1	596.5	590.9	589.7	598.9	626.1	663.3	673.7	739.2	802.8	801.2
27.5°	639.3	634.9	634.9	629.3	626.9	640.1	690.8	708.0	778.0	836.4	814.0
30°	684.5	689.2	685.7	687.6	671.7	670.5	730.0	751.2	846.8	887.5	841.2
32.5°	756.0	749.6	755.6	750.4	729.2	707.6	783.2	805.2	929.9	946.3	882.0
35°	815.6	812.8	838.4	837.6	803.2	782.0	839.6	872.4	987.9	1016.7	929.9
37.5°	900.3	895.1	924.3	938.3	907.5	876.0	920.3	958.3	1041.9	1073.1	979.1
40°	987.5	1000.7	1039.9	1063.1	1030.3	988.3	1019.1	1030.7	1077.9	1109.8	1012.7
42.5°	1097.8	1117.0	1157.0	1177.0	1174.2	1128.6	1119.4	1119.0	1103.8	1099.4	1037.5
45°	1203.8	1196.6	1258.2	1301.7	1336.9	1323.7	1216.2	1204.2	1145.0	1115.0	1043.9
47.5°	1250.2	1247.8	1289.7	1367.3	1487.2	1503.6	1356.9	1310.5	1214.6	1180.6	1078.7
50°	1190.2	1202.6	1244.2	1330.1	1514.0	1639.2	1529.6	1467.3	1295.7	1260.6	1161.0
52.5°	994.3	1002.7	1042.3	1151.4	1422.9	1719.1	1695.1	1659.2	1444.9	1386.5	1304.5
54°	817.6	840.0	861.6	971.1	1260.6	1674.7	1785.9	1758.3	1542.0	1491.2	1394.9
55°	712.0	725.2	740.8	850.0	1148.2	1599.6	1775.5	1777.9	1607.2	1524.0	1455.7
57.5°	520.1	529.3	513.3	561.7	788.4	1298.9	1624.0	1688.7	1695.1	1573.2	1492.8
60°	397.4	401.4	383.4	391.0	490.2	891.5	1256.2	1334.1	1529.2	1374.9	1264.6
62.5°	308.2	309.0	308.6	321.8	337.8	524.5	785.6	854.8	1054.3	976.3	858.8
65°	227.1	223.5	229.9	269.9	288.3	329.8	413.8	464.2	572.9	483.8	345.8
67.5°	147.1	148.3	154.7	200.7	247.1	253.1	254.7	250.7	251.1	138.3	86.8
70°	88.4	90.4	88.4	113.5	176.7	181.5	165.9	161.9	126.3	32.8	32.4
72.5°	52.4	49.6	44.4	48.8	73.6	88.0	79.2	78.8	49.6	19.2	19.2
75°	22.0	20.0	16.4	14.8	19.6	18.8	18.8	16.8	13.2	12.8	12.0
77.5°	4.4	4.4	3.2	3.6	4.8	5.6	6.8	6.8	8.0	8.0	7.6
80°	0.0	0.4	1.2	2.4	3.6	5.2	6.0	6.0	6.8	6.8	5.6
82.5°	0.0	0.4	1.2	2.4	3.2	4.8	6.0	6.0	6.8	7.2	6.0
85°	0.0	0.4	1.2	2.0	3.2	4.0	4.0	3.6	2.8	2.4	1.6
87.5°	0.0	0.0	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8
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°	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8	770.8
2.5°	774.4	774.0	764.4	748.8	745.2	732.0	730.4	722.4	726.8	712.0	710.4
5°	768.0	763.2	751.6	741.6	712.4	691.6	675.3	655.3	643.7	645.7	638.1
7.5°	777.2	764.8	744.4	709.6	674.1	637.7	618.1	577.3	562.5	540.5	537.3
10°	767.6	758.4	726.8	669.3	620.1	567.7	521.7	476.6	442.2	427.4	424.2
12.5°	766.8	750.8	698.0	634.1	562.9	487.8	421.0	364.6	330.6	311.4	307.0
15°	754.4	735.2	665.7	579.7	481.4	387.8	315.0	260.7	234.7	223.5	226.7
17.5°	755.6	726.8	633.3	522.1	401.0	284.7	215.1	187.1	180.3	183.1	183.1
20°	754.4	708.0	594.1	455.8	307.0	197.5	157.9	147.9	152.3	161.1	159.1
22.5°	748.0	699.2	558.1	385.8	225.9	146.3	126.7	127.1	133.9	144.7	147.1
25°	752.8	679.7	512.5	315.0	164.7	116.7	109.9	112.7	119.9	127.9	129.5
27.5°	749.2	665.7	465.0	244.7	120.3	100.3	99.9	103.1	106.3	112.3	112.3
30°	753.2	652.9	418.2	181.9	99.1	92.0	90.4	92.8	96.0	97.2	96.8
32.5°	768.0	643.3	364.2	135.9	87.6	84.0	84.0	84.0	83.6	85.2	85.6
35°	800.4	644.9	316.6	105.1	80.0	77.2	76.0	74.4	73.6	74.4	74.8
37.5°	835.6	644.1	267.5	89.6	74.4	72.0	69.2	66.8	66.4	67.2	66.0
40°	851.2	651.7	221.9	80.4	69.2	66.4	62.0	60.0	60.4	61.2	60.4
42.5°	872.4	654.1	192.3	73.2	64.4	60.0	57.2	54.8	54.4	55.6	55.2
45°	872.0	640.5	161.1	69.2	60.0	55.2	51.6	49.6	49.6	50.4	50.8
47.5°	897.5	638.5	138.3	65.6	56.8	52.0	47.6	46.0	45.6	45.6	44.8
50°	957.1	666.5	120.7	61.6	52.8	48.4	44.8	42.8	41.2	40.4	40.0
52.5°	1073.5	753.6	107.1	56.8	48.4	44.8	41.6	40.0	38.0	36.0	35.6
54°	1186.2	843.6	106.3	52.8	44.8	42.4	39.6	38.8	36.4	33.6	32.8
55°	1237.0	895.9	109.1	49.6	42.4	40.8	38.4	37.6	35.2	32.0	31.6
57.5°	1278.9	916.3	107.5	41.2	38.4	38.0	36.0	34.8	32.0	27.6	26.8
60°	1029.5	692.8	77.2	36.4	35.2	34.4	32.8	32.0	28.4	23.6	23.2
62.5°	650.5	398.6	49.2	32.0	30.8	29.6	27.6	26.8	23.6	18.8	17.6
65°	277.1	165.1	33.2	28.4	26.4	24.4	22.8	21.6	18.8	14.0	13.6
67.5°	72.0	58.8	27.6	24.8	22.0	19.2	18.0	16.0	12.8	9.6	9.2
70°	32.4	29.6	23.2	20.8	17.6	14.8	13.2	11.2	8.4	6.4	6.0
72.5°	19.2	18.8	17.6	15.6	13.2	11.2	9.6	7.6	5.6	3.6	3.6
75°	12.0	11.6	12.0	10.8	9.2	8.4	7.2	5.2	3.2	1.6	1.6
77.5°	7.2	7.2	7.2	6.8	6.4	6.4	5.2	3.2	1.6	0.4	0.4
80°	5.6	5.6	6.0	5.6	5.6	5.6	4.4	2.4	0.8	0.0	0.0
82.5°	5.6	6.0	6.8	6.4	5.6	4.8	4.0	2.4	0.8	0.0	0.0
85°	1.6	1.2	2.0	2.8	4.0	3.6	2.8	2.0	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4	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)