

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: P651673

Luminaire Tested: **GALN-SA1A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2275.7 lumens
Efficiency: N/A
Efficacy: 69.0 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

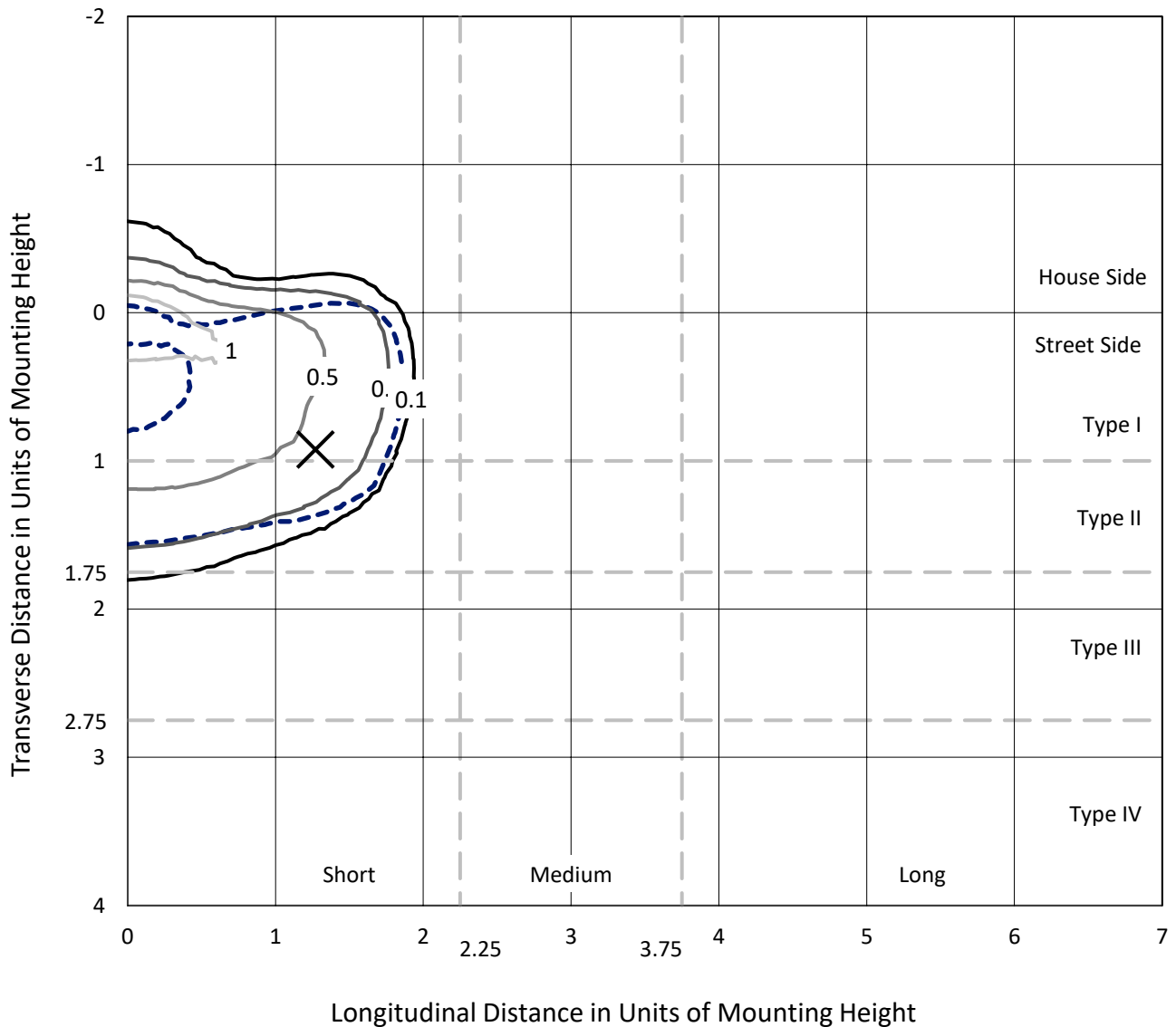
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

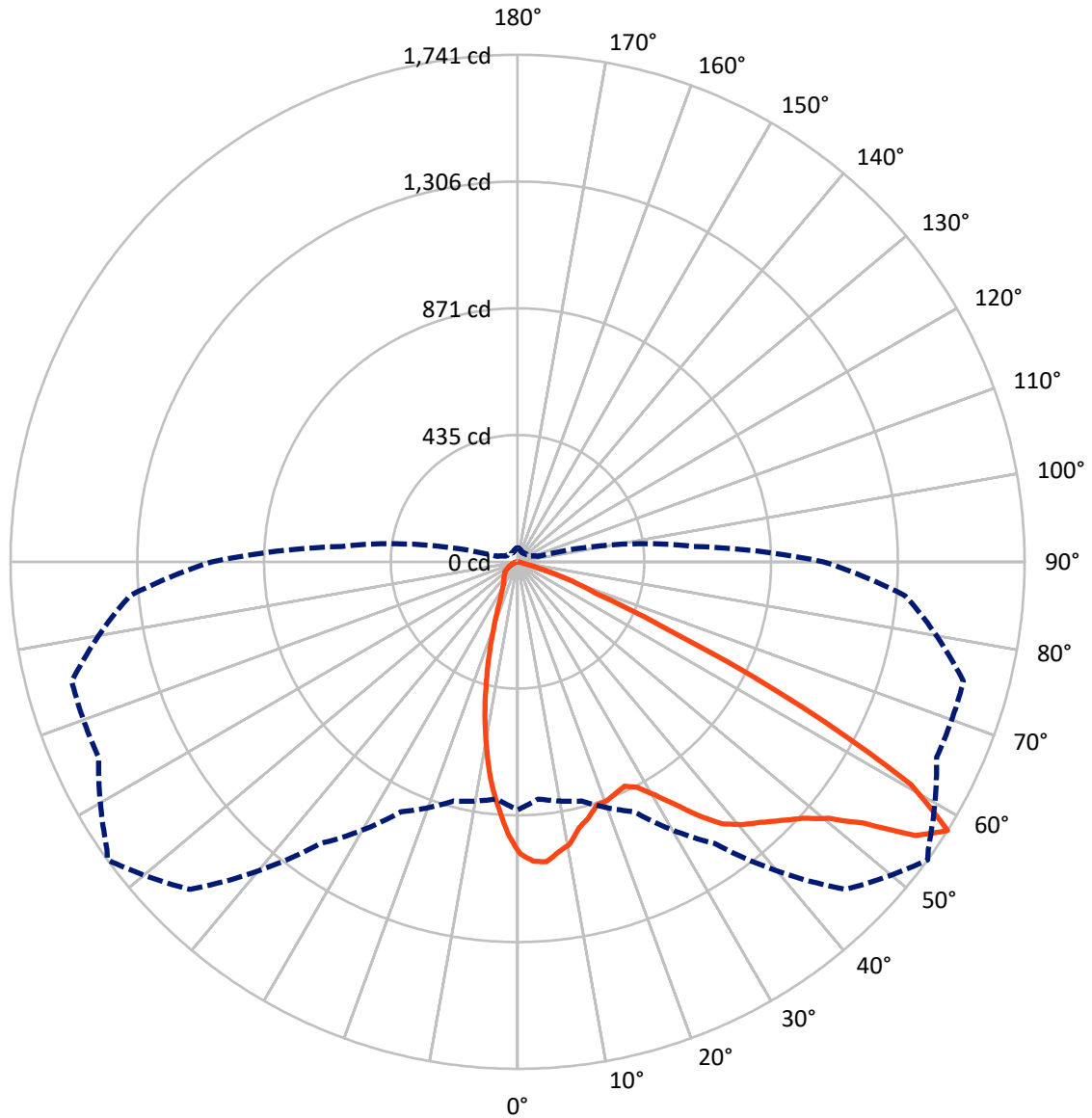
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA1A-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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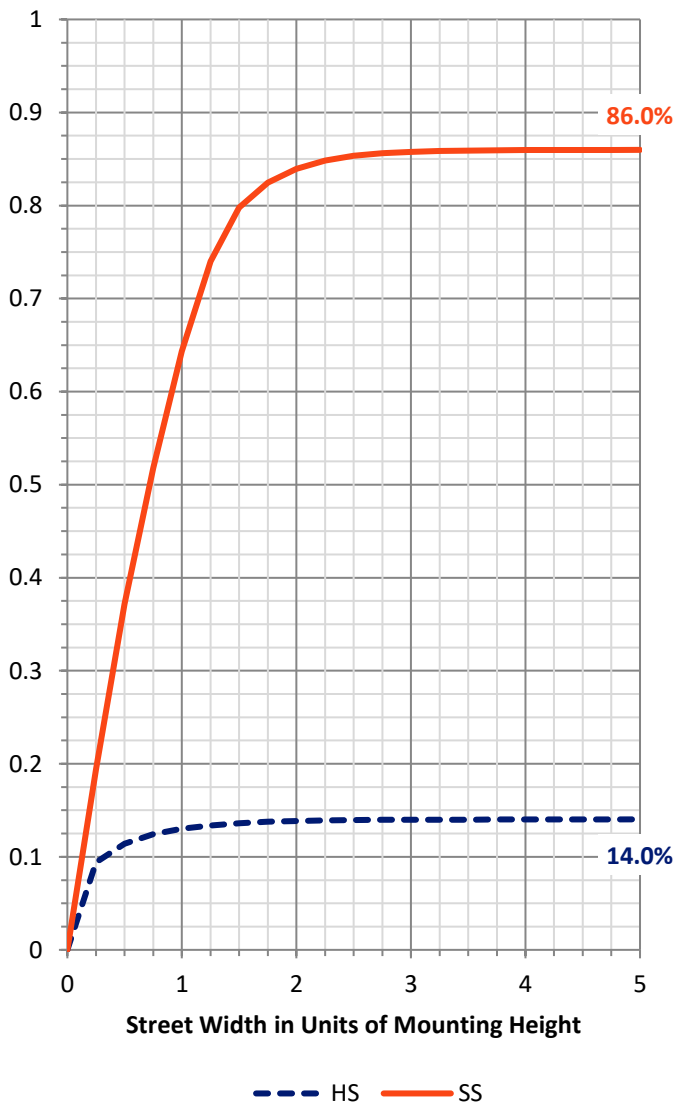
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	321.6	0.0	321.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	1954.1	0.0	1954.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	2275.7	0.0	2275.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.7
10°-20°	179.1	7.9
20°-30°	237.4	10.4
30°-40°	344.9	15.2
40°-50°	511.5	22.5
50°-60°	639.6	28.1
60°-70°	252.3	11.1
70°-80°	25.1	1.1
80°-90°	1.9	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°	2275.7	100.0
0°-180°	2275.7	100.0

Coefficient of Utilization

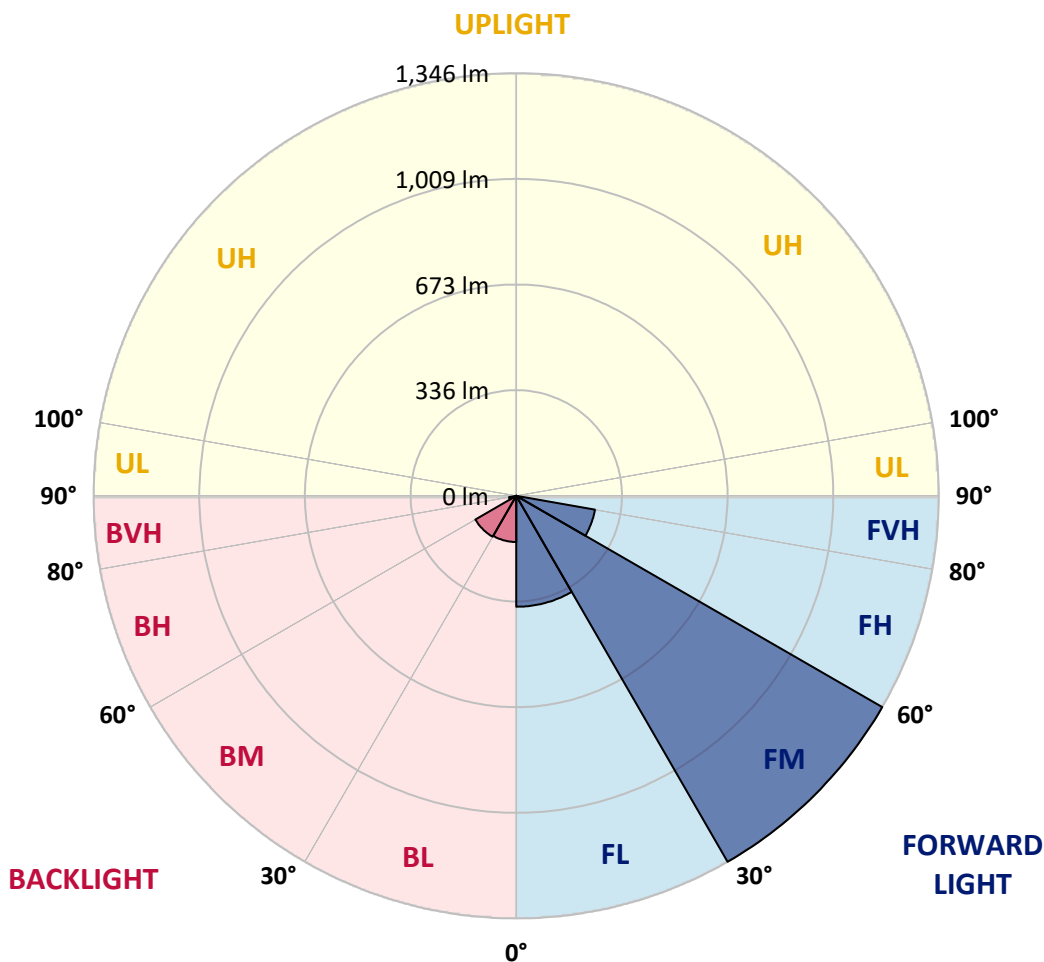


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.3	15.5			
FM (30°-60°)	1345.6	59.1			
FH (60°-80°)	254.4	11.2			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	147.1	6.5	B1/500		
BM (30°-60°)	150.4	6.6	B0/220		
BH (60°-80°)	23.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			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





REPORT NUMBER: P651673

CATALOG NUMBER: GALN-SA1A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5
2.5°	1060.9	1049.9	1050.7	1047.0	1041.8	1045.7	1029.1	1033.0	1032.6	1010.1	995.3
5°	1034.3	1046.1	1033.8	1043.9	1034.3	1044.8	1034.7	1027.0	1014.8	998.3	970.8
7.5°	988.9	977.5	980.9	993.6	995.7	1019.5	1006.8	1016.4	1011.4	978.8	941.2
10°	897.9	895.4	912.4	929.3	950.0	975.4	985.1	979.7	975.8	963.5	913.2
12.5°	828.1	835.4	834.9	862.9	897.9	912.4	937.7	936.9	958.1	935.2	887.0
15°	761.7	765.5	783.3	800.6	839.6	880.6	911.9	916.2	941.6	925.5	866.7
17.5°	721.1	715.6	729.6	750.3	790.0	843.8	878.5	888.7	923.3	920.0	843.4
20°	680.9	680.9	692.3	716.9	753.3	813.8	875.6	872.6	923.3	913.7	818.4
22.5°	667.3	674.1	677.1	695.7	738.8	790.9	862.9	868.3	930.6	910.6	807.4
25°	686.0	677.1	677.9	692.7	733.4	779.9	853.5	865.8	943.7	925.5	798.5
27.5°	688.9	697.8	700.4	710.5	737.6	783.3	876.8	901.8	976.2	960.2	801.1
30°	714.8	723.6	723.2	740.6	759.2	810.8	928.9	933.9	1043.5	1003.7	816.7
32.5°	746.1	755.4	758.3	778.6	793.5	861.2	992.4	1005.5	1108.3	1072.4	857.7
35°	785.0	781.6	795.2	815.4	847.2	934.8	1069.8	1091.8	1178.1	1161.2	900.1
37.5°	833.7	829.4	842.5	875.6	918.7	1022.0	1141.3	1155.7	1228.9	1243.7	978.3
40°	867.9	869.6	909.4	953.9	999.5	1104.9	1186.6	1200.5	1264.4	1320.7	1037.6
42.5°	925.0	935.6	983.5	1037.6	1085.5	1167.1	1223.4	1236.9	1280.9	1382.5	1117.6
45°	1008.0	1003.3	1056.2	1116.8	1169.7	1231.9	1267.0	1262.3	1290.7	1443.8	1168.0
47.5°	1114.7	1115.5	1150.6	1202.2	1257.2	1288.2	1315.7	1299.2	1311.0	1508.6	1235.3
50°	1187.4	1193.8	1222.1	1275.0	1302.5	1349.9	1385.0	1374.9	1371.1	1547.5	1277.6
52.5°	1206.1	1225.1	1240.3	1306.3	1370.7	1445.6	1490.4	1512.0	1444.2	1560.6	1331.3
55°	1065.5	1082.5	1136.2	1226.8	1396.5	1597.1	1658.9	1659.3	1540.0	1619.1	1369.0
57.5°	851.8	817.5	850.6	946.6	1180.7	1590.7	1741.0	1721.0	1587.7	1584.8	1336.3
60°	589.0	580.6	582.7	620.8	817.1	1265.3	1551.4	1577.1	1462.1	1373.6	1057.9
62.5°	466.8	459.6	450.3	446.0	507.4	788.4	1094.3	1130.7	1022.4	890.8	627.1
65°	365.6	361.4	362.6	379.6	379.1	447.3	598.4	583.6	467.2	345.3	197.2
67.5°	246.7	253.1	258.1	309.3	335.6	311.4	289.1	280.6	151.9	63.9	43.6
70°	138.8	139.6	145.2	193.4	254.7	241.6	199.3	199.3	75.8	23.3	25.0
72.5°	75.8	73.2	68.1	83.3	113.5	115.1	88.9	77.5	22.5	15.2	14.0
75°	36.8	36.4	31.3	25.8	24.6	20.4	15.6	14.4	10.2	9.8	8.5
77.5°	7.7	7.2	3.8	3.8	4.2	4.6	5.9	5.9	7.2	7.2	5.9
80°	0.0	0.0	0.4	1.7	2.9	4.2	5.0	5.0	5.9	5.9	4.6
82.5°	0.0	0.0	0.4	1.3	2.5	3.8	4.6	5.0	5.9	6.3	5.0
85°	0.0	0.0	0.0	0.8	2.1	2.9	2.5	2.5	2.1	1.7	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P651673

CATALOG NUMBER: GALN-SA1A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5	1002.5
2.5°	987.7	986.8	967.4	956.4	936.5	919.1	905.2	895.0	895.0	888.7	882.7
5°	959.7	952.6	911.1	884.4	846.8	818.9	799.8	785.0	761.7	768.1	743.1
7.5°	925.0	906.9	851.8	811.2	759.2	719.4	678.8	642.8	608.1	592.4	600.9
10°	887.8	856.1	782.0	717.7	653.0	580.2	532.8	475.2	439.7	437.6	428.2
12.5°	848.5	812.5	722.3	633.5	548.4	460.9	388.5	334.7	310.6	283.9	289.1
15°	818.9	765.5	655.9	548.8	435.9	347.4	274.7	233.2	210.3	203.9	201.8
17.5°	786.7	729.6	588.2	458.7	342.0	250.1	197.6	177.7	168.9	168.9	167.6
20°	753.3	688.9	520.9	374.9	256.4	186.6	158.3	151.9	151.5	151.0	151.0
22.5°	731.2	642.4	460.0	297.9	193.4	149.4	137.5	135.0	136.7	141.8	141.8
25°	708.0	597.5	392.7	229.8	149.8	128.3	121.4	123.1	127.4	132.0	130.4
27.5°	684.2	568.3	329.3	180.3	122.7	112.1	109.6	113.5	118.1	122.3	121.0
30°	678.8	537.0	269.1	136.7	105.4	97.7	99.4	102.9	107.5	109.2	110.8
32.5°	687.3	512.4	220.5	112.1	91.8	89.7	89.7	91.4	94.4	98.1	96.9
35°	711.3	498.5	174.3	97.3	84.2	82.1	81.7	83.3	85.0	86.3	85.0
37.5°	748.2	487.5	142.6	86.3	79.1	75.8	74.9	74.5	76.2	76.6	77.5
40°	795.2	493.4	121.0	79.6	74.1	70.2	67.7	67.7	67.7	69.0	69.4
42.5°	846.0	501.5	104.5	75.8	69.4	64.8	62.2	61.4	62.2	63.9	63.5
45°	899.3	517.1	93.9	69.8	65.2	59.2	55.8	55.0	57.1	60.6	60.1
47.5°	949.2	539.6	85.9	66.0	61.0	55.4	51.2	50.4	54.2	58.8	59.2
50°	999.1	578.4	82.9	63.1	57.9	51.6	47.9	47.0	51.2	57.1	58.4
52.5°	1056.6	620.4	80.8	59.2	54.6	48.7	44.4	43.6	48.3	55.8	56.3
55°	1094.3	655.9	79.1	52.5	48.3	44.0	40.6	40.2	45.2	52.1	53.7
57.5°	1050.3	606.4	73.2	45.7	41.0	38.9	36.0	36.0	40.2	46.5	47.9
60°	796.4	399.1	52.1	36.8	34.7	33.5	32.1	32.1	35.6	40.2	40.6
62.5°	466.3	215.0	33.5	29.6	29.6	28.3	26.2	26.2	29.6	32.1	32.5
65°	138.3	69.0	27.1	25.4	25.0	22.9	20.8	20.4	22.9	24.1	23.7
67.5°	39.8	31.7	22.5	21.2	20.8	17.3	16.1	15.6	16.1	15.2	14.8
70°	23.7	21.6	17.3	17.7	15.6	12.7	11.4	11.0	10.2	8.9	8.1
72.5°	13.1	13.1	12.7	13.5	11.0	8.5	7.2	5.9	4.6	3.8	3.4
75°	8.1	8.5	8.9	9.3	7.2	5.5	4.6	2.9	1.7	0.8	0.8
77.5°	5.5	5.9	6.3	6.8	5.9	5.0	3.8	2.1	0.4	0.0	0.0
80°	4.2	4.6	5.5	5.9	6.3	6.8	5.0	2.1	0.4	0.0	0.0
82.5°	4.6	5.0	6.3	5.9	5.9	5.9	4.6	2.1	0.4	0.0	0.0
85°	0.8	1.3	2.1	2.1	2.9	3.8	2.9	0.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)