

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: P450577

Luminaire Tested: **GALN-SA1B-827-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3482 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

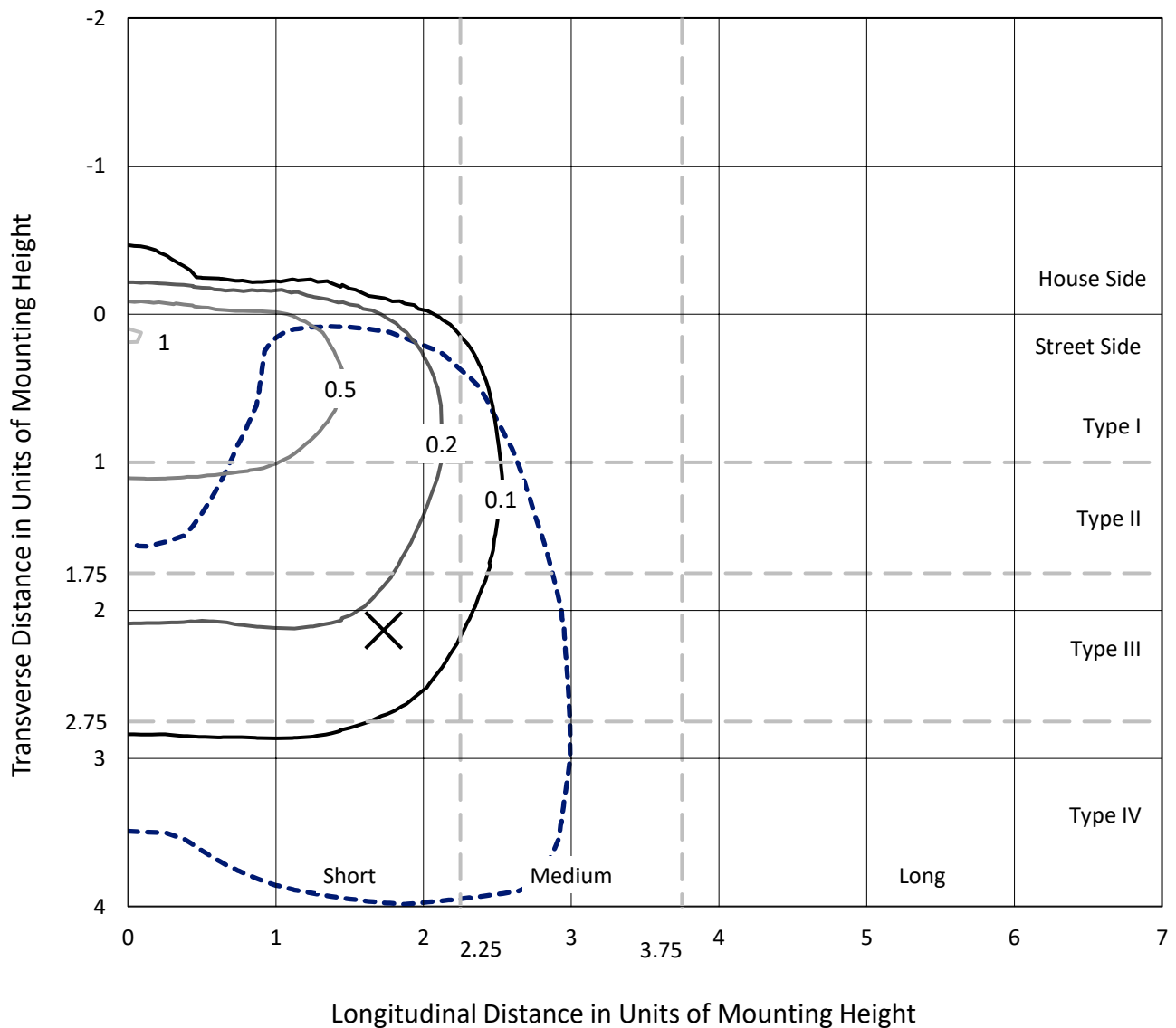
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

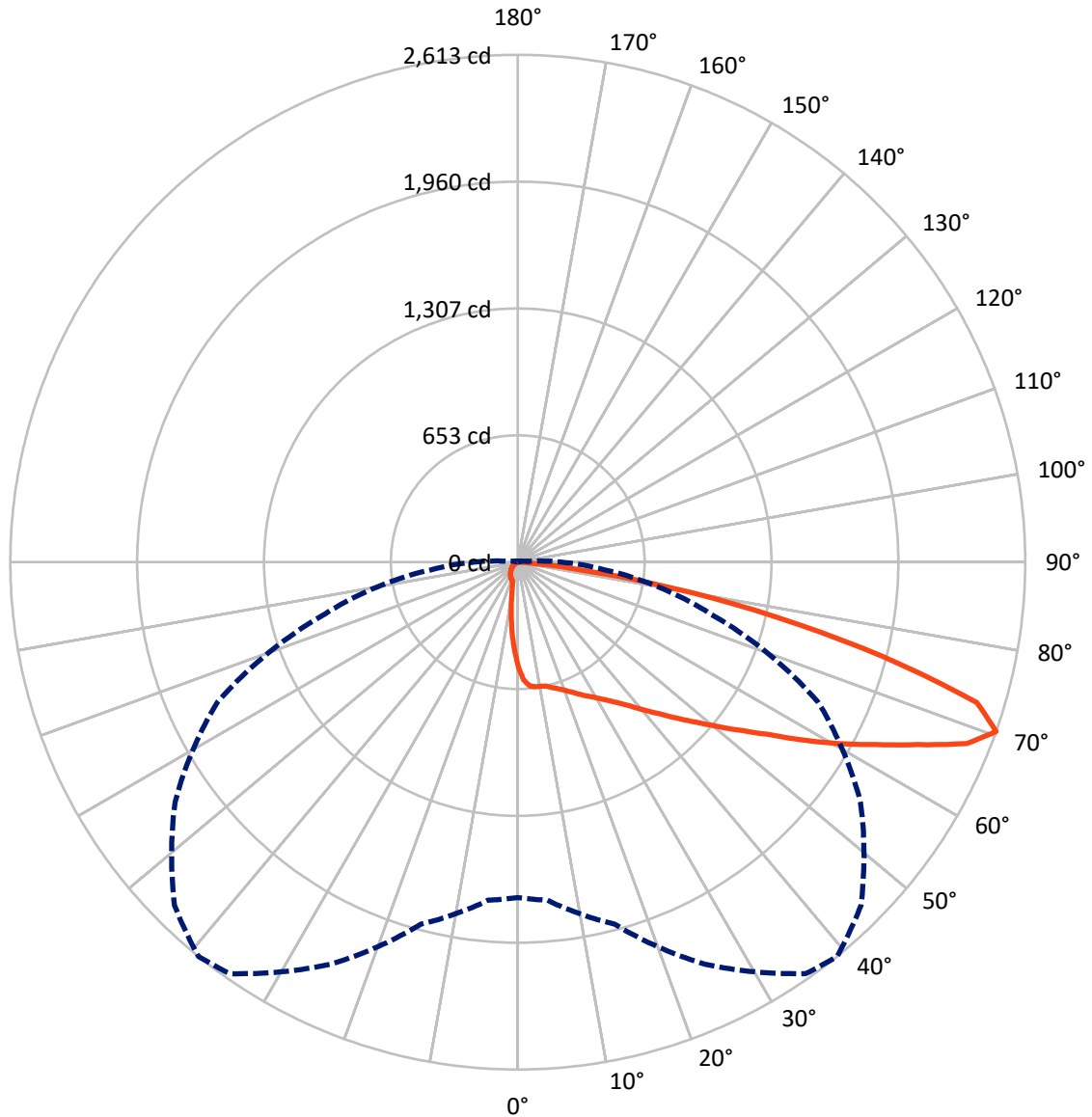
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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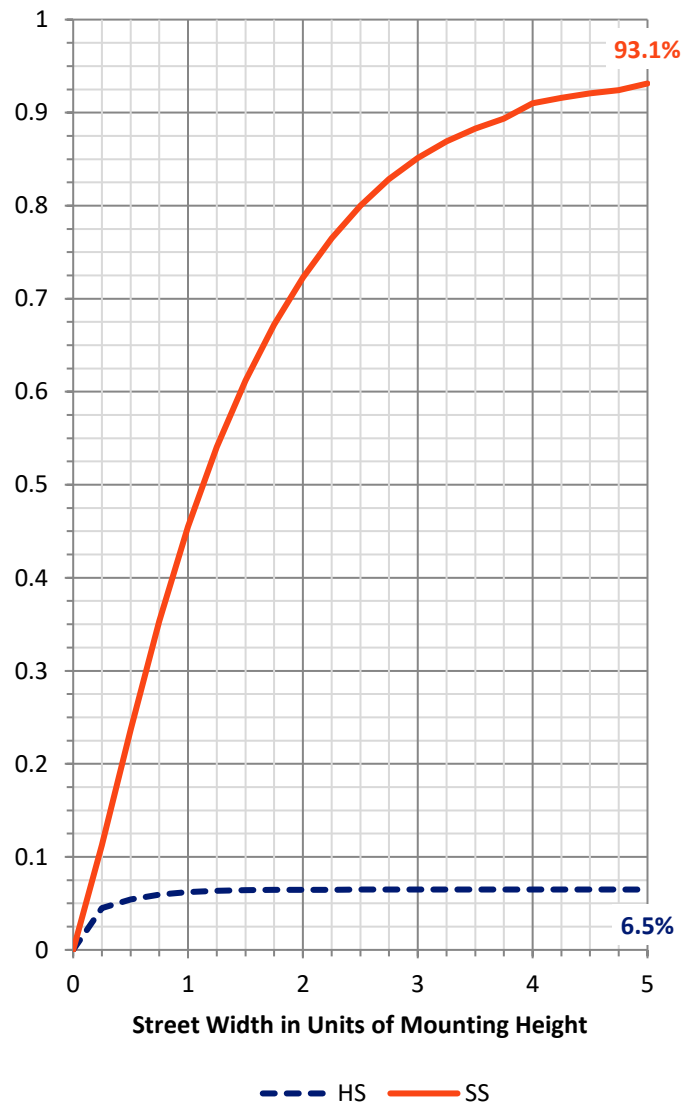
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	227.0	0.0	227.0
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	3255.0	0.0	3255.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	3482.0	0.0	3482.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.3	1.3
10°-20°	120.4	3.5
20°-30°	201.7	5.8
30°-40°	312.9	9.0
40°-50°	495.8	14.2
50°-60°	726.8	20.9
60°-70°	931.6	26.8
70°-80°	585.4	16.8
80°-90°	61.0	1.8
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°	3482.0	100.0
0°-180°	3482.0	100.0



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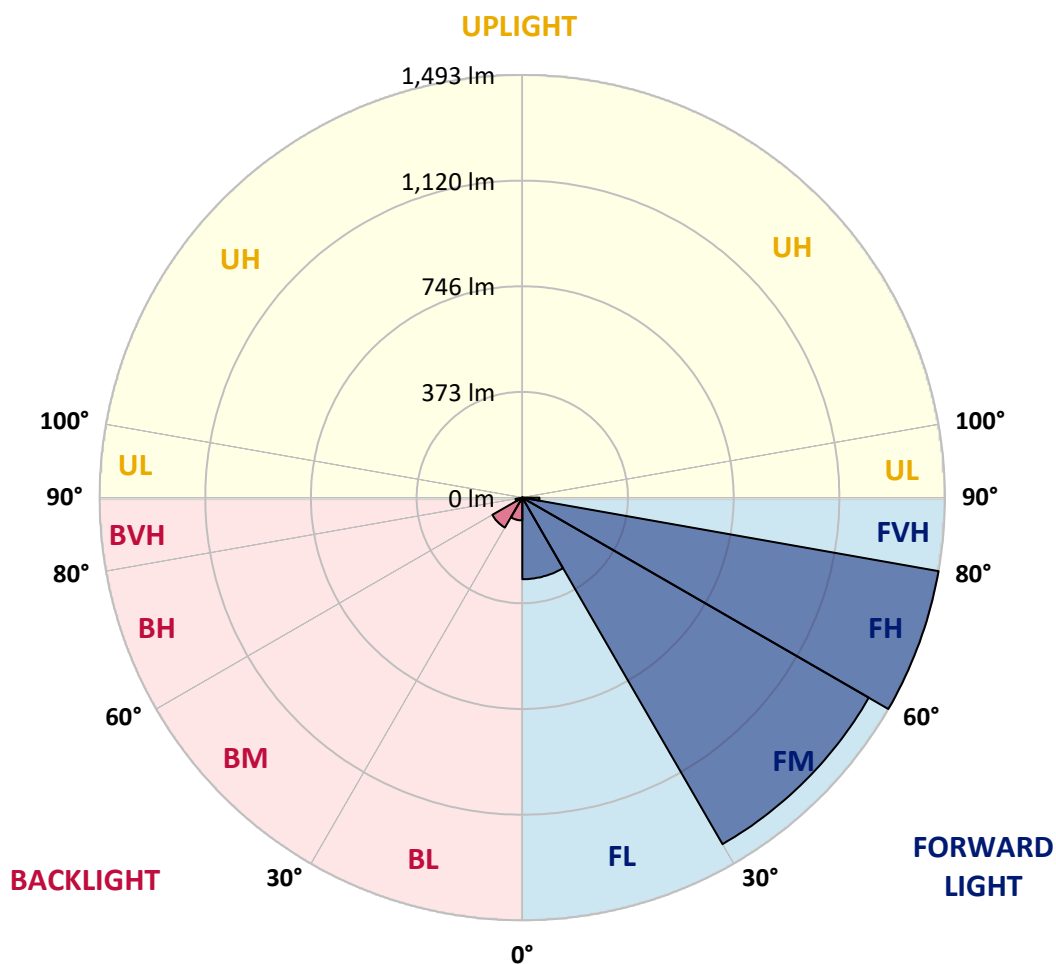
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.1	8.3			
FM (30°-60°)	1413.3	40.6			
FH (60°-80°)	1493.0	42.9			G1/1800
FVH (80°-90°)	60.5	1.7			G1/100
BL (0°-30°)	80.4	2.3	B0/110		
BM (30°-60°)	122.2	3.5	B0/220		
BH (60°-80°)	24.0	0.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3
2.5°	627.8	625.7	622.9	619.6	610.2	608.6	603.0	591.0	576.8	565.1	548.9
5°	657.5	658.7	656.6	650.7	643.9	639.9	632.9	614.4	596.0	572.3	545.9
7.5°	664.3	666.6	664.0	658.4	651.9	647.7	642.1	626.1	604.6	577.7	541.4
10°	663.6	666.4	664.7	659.6	654.2	650.2	644.2	631.5	614.2	585.9	542.8
12.5°	662.4	666.2	665.9	663.3	658.9	655.9	652.1	640.9	624.7	597.8	550.6
15°	659.1	663.8	668.0	670.1	670.4	670.4	665.7	653.8	638.3	613.5	560.6
17.5°	660.5	665.9	676.4	682.5	686.7	686.3	681.4	668.5	651.4	629.7	571.2
20°	669.2	676.4	691.2	703.4	707.6	706.2	699.6	684.6	665.2	643.5	581.5
22.5°	690.5	697.0	715.5	729.8	732.8	729.1	719.7	699.4	681.8	658.4	593.9
25°	722.3	730.0	747.1	757.9	757.9	755.8	742.7	718.8	700.5	679.3	610.0
27.5°	760.9	767.5	784.3	793.9	788.3	782.2	769.1	740.3	722.8	705.5	629.4
30°	800.0	804.2	822.0	826.2	820.3	812.6	798.6	769.8	754.4	741.0	657.5
32.5°	837.0	846.1	860.8	859.9	851.9	848.2	835.3	804.7	796.0	794.6	696.8
35°	873.9	881.0	894.1	897.3	890.3	889.6	880.2	857.6	857.8	866.9	758.1
37.5°	905.8	912.1	927.5	934.8	936.2	939.7	935.9	921.0	942.3	967.3	839.3
40°	932.4	941.3	961.0	973.6	988.1	1001.0	1001.7	1005.0	1047.8	1090.8	945.3
42.5°	953.3	965.7	994.2	1017.6	1050.8	1067.2	1080.3	1098.3	1170.4	1234.7	1070.2
45°	980.4	994.7	1030.2	1067.0	1118.9	1145.8	1164.1	1212.3	1314.5	1402.3	1198.5
47.5°	1025.3	1032.8	1069.1	1122.7	1191.0	1229.4	1264.9	1337.9	1469.2	1547.8	1305.2
50°	1083.1	1088.0	1115.4	1189.8	1278.3	1328.8	1393.6	1479.5	1629.7	1668.5	1365.5
52.5°	1147.0	1148.6	1169.2	1263.7	1376.1	1439.7	1512.2	1618.2	1760.5	1754.6	1405.5
55°	1221.2	1218.8	1236.4	1344.0	1491.9	1564.7	1649.1	1760.3	1874.0	1815.7	1428.5
57.5°	1306.1	1299.8	1316.9	1450.5	1640.2	1727.3	1813.1	1882.9	1962.0	1867.0	1439.5
60°	1395.0	1382.4	1402.7	1570.0	1815.0	1897.6	1969.0	1987.7	2054.6	1907.7	1420.5
62.5°	1465.9	1466.1	1504.1	1697.3	1994.7	2067.0	2104.9	2121.8	2134.4	1898.8	1320.8
65°	1576.6	1580.3	1640.9	1874.0	2202.7	2265.4	2291.4	2236.7	2137.9	1788.3	1171.1
67.5°	1690.8	1702.7	1813.6	2117.3	2443.0	2493.6	2460.1	2258.9	2042.4	1536.3	888.0
70°	1728.0	1747.6	1930.4	2284.9	2587.2	2613.4	2500.1	2155.2	1707.4	1027.2	446.9
72.5°	1583.4	1615.2	1863.2	2223.8	2495.2	2472.5	2236.9	1807.5	1085.5	390.1	136.4
75°	1116.6	1130.6	1548.5	1844.7	2006.9	1942.5	1701.5	1165.2	446.4	109.5	46.8
77.5°	576.5	569.8	921.0	1224.0	1431.3	1364.6	1114.2	603.2	169.2	45.6	29.0
80°	298.1	303.0	398.5	641.4	873.7	804.0	594.1	279.6	90.1	25.3	22.2
82.5°	167.1	156.8	229.1	280.1	408.5	320.3	227.9	198.0	39.3	15.2	21.1
85°	30.4	31.8	125.6	151.4	141.8	90.1	73.5	132.2	11.5	8.4	14.7
87.5°	0.5	0.5	24.3	43.5	27.6	12.6	23.2	19.0	2.3	3.3	2.6
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°	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3	543.3
2.5°	540.7	531.8	515.2	498.9	478.0	460.9	449.5	437.6	425.4	426.3	429.1
5°	531.4	515.9	483.2	448.5	415.3	385.4	355.9	329.4	318.7	308.9	309.3
7.5°	522.0	500.3	452.3	398.0	347.7	296.7	259.7	229.3	213.2	201.0	197.5
10°	517.8	489.0	424.0	349.3	278.0	222.3	174.8	150.0	130.8	124.7	126.4
12.5°	519.7	483.4	398.5	305.3	220.4	154.9	121.7	109.0	104.8	104.1	103.7
15°	523.2	479.4	373.4	256.7	161.9	115.1	102.3	99.9	99.4	99.0	99.2
17.5°	527.9	475.9	346.8	211.1	124.2	100.6	96.9	95.7	95.5	95.5	95.5
20°	532.5	471.9	317.0	170.3	103.7	95.0	92.7	92.0	91.7	91.7	91.5
22.5°	537.9	468.4	286.9	133.8	95.5	91.0	88.9	88.4	88.2	88.0	88.0
25°	545.7	464.0	254.8	109.5	90.3	87.3	85.2	84.7	84.5	83.5	83.8
27.5°	555.9	460.7	221.8	94.5	85.6	82.6	81.2	80.5	80.0	79.3	79.6
30°	570.0	457.9	186.7	86.3	80.3	77.7	76.3	75.8	75.3	74.6	74.6
32.5°	594.3	459.1	149.7	79.8	75.3	72.3	70.9	70.4	70.0	69.3	69.3
35°	630.8	465.9	119.8	74.2	69.5	66.5	65.0	65.0	64.3	63.4	63.2
37.5°	690.5	483.2	96.2	68.8	63.9	61.1	59.4	59.0	58.3	56.9	56.6
40°	760.9	510.1	81.0	63.4	58.7	55.9	54.5	53.1	51.2	49.8	49.6
42.5°	849.4	537.7	70.2	58.0	53.8	51.2	49.6	47.3	44.5	42.6	42.4
45°	941.6	563.0	62.9	53.1	49.1	47.0	45.2	41.4	37.9	35.6	35.3
47.5°	1010.3	567.6	57.1	48.4	45.2	43.1	40.5	35.8	31.1	29.0	28.3
50°	1042.9	544.9	51.0	43.8	41.2	38.8	35.6	30.2	25.0	22.5	22.0
52.5°	1054.3	505.6	46.1	39.5	37.2	34.4	30.4	24.3	19.7	17.1	16.8
55°	1049.7	456.0	41.6	35.6	32.5	29.2	25.3	19.4	14.5	12.4	11.9
57.5°	1025.1	392.9	37.2	31.6	27.8	24.6	20.1	14.5	9.8	8.0	7.7
60°	958.9	306.8	32.8	27.1	23.6	20.1	15.9	10.3	6.1	4.4	4.4
62.5°	847.0	227.7	28.5	22.7	19.9	16.1	11.2	6.6	3.3	2.3	2.1
65°	707.8	168.0	23.9	19.2	16.6	12.6	8.0	4.0	1.6	0.7	0.5
67.5°	493.9	103.7	19.9	15.7	13.6	9.1	4.9	1.6	0.7	0.0	0.0
70°	224.4	49.4	15.2	11.9	10.3	6.6	2.6	0.9	0.5	0.0	0.0
72.5°	69.7	26.0	10.8	8.7	7.0	4.2	1.4	0.7	0.5	0.0	0.0
75°	32.3	16.6	6.8	4.7	4.0	2.1	0.9	0.5	0.2	0.0	0.0
77.5°	24.1	12.9	4.0	2.6	2.1	1.4	0.7	0.5	0.2	0.0	0.0
80°	21.1	6.6	2.3	1.6	1.2	0.9	0.5	0.2	0.0	0.0	0.0
82.5°	19.0	3.3	1.4	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0
85°	10.3	1.9	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.7	0.5	0.5	0.2	0.2	0.2	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)