

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: P450213

Luminaire Tested: **GALN-SA1A-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3030 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

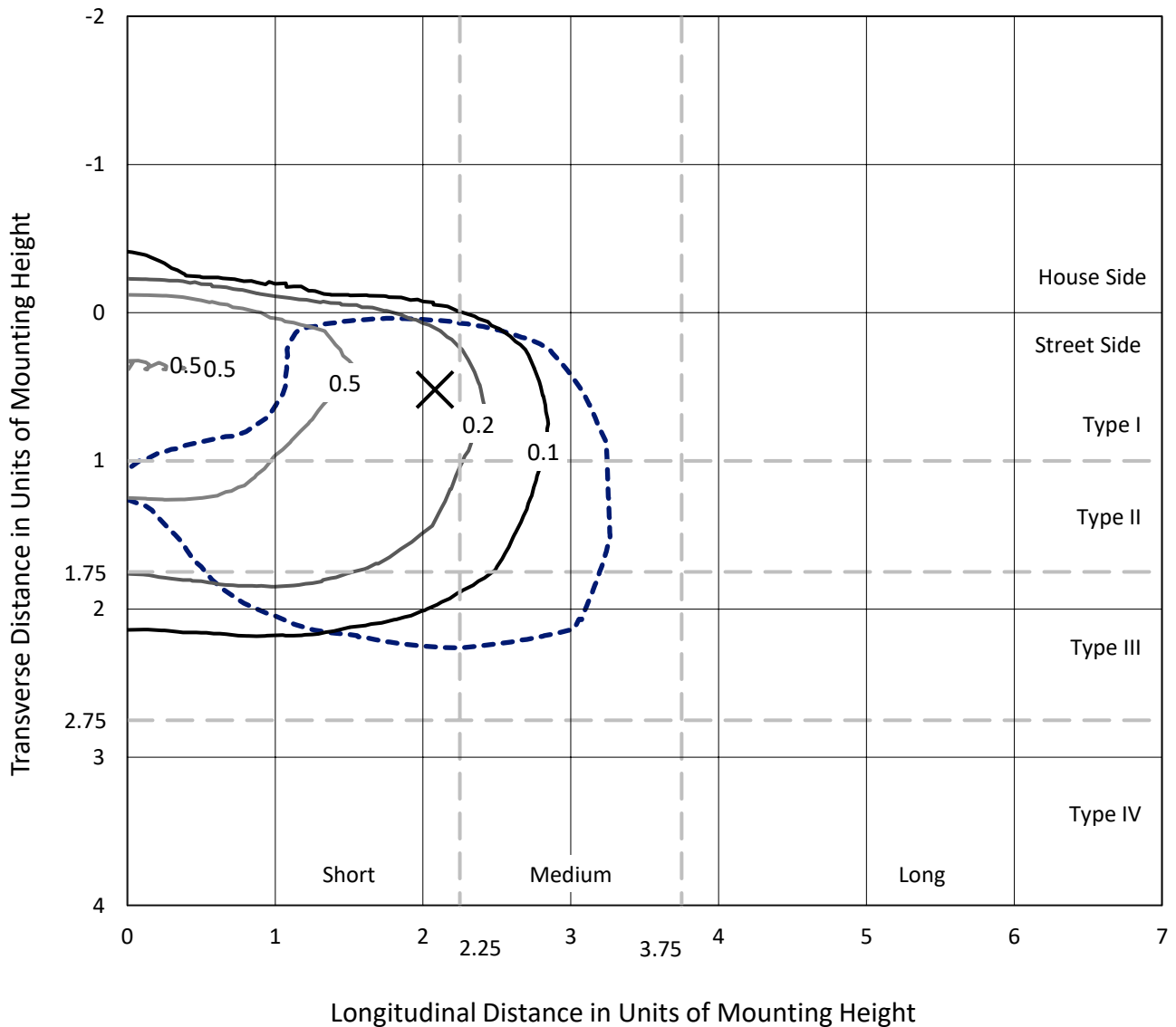
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

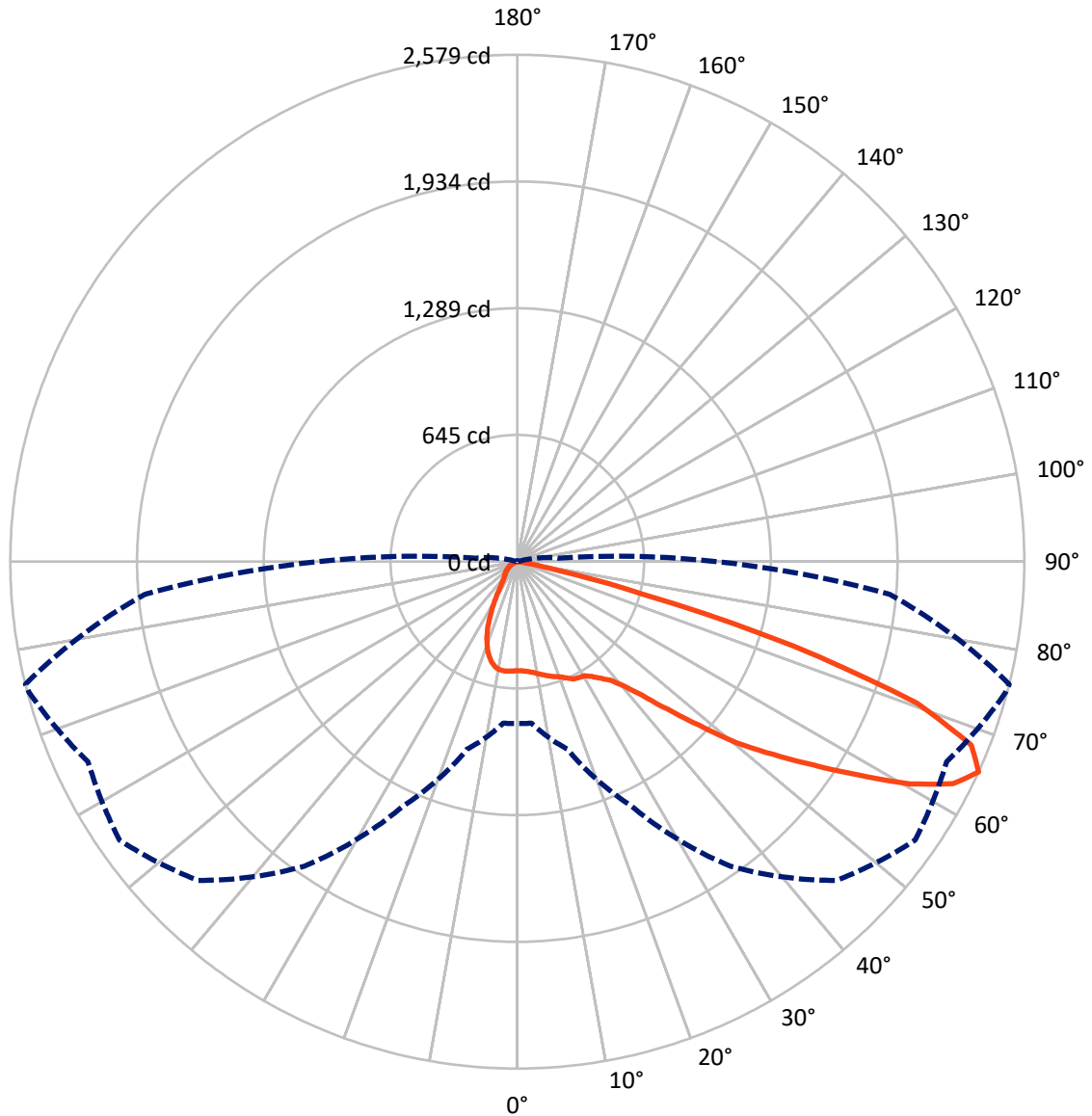
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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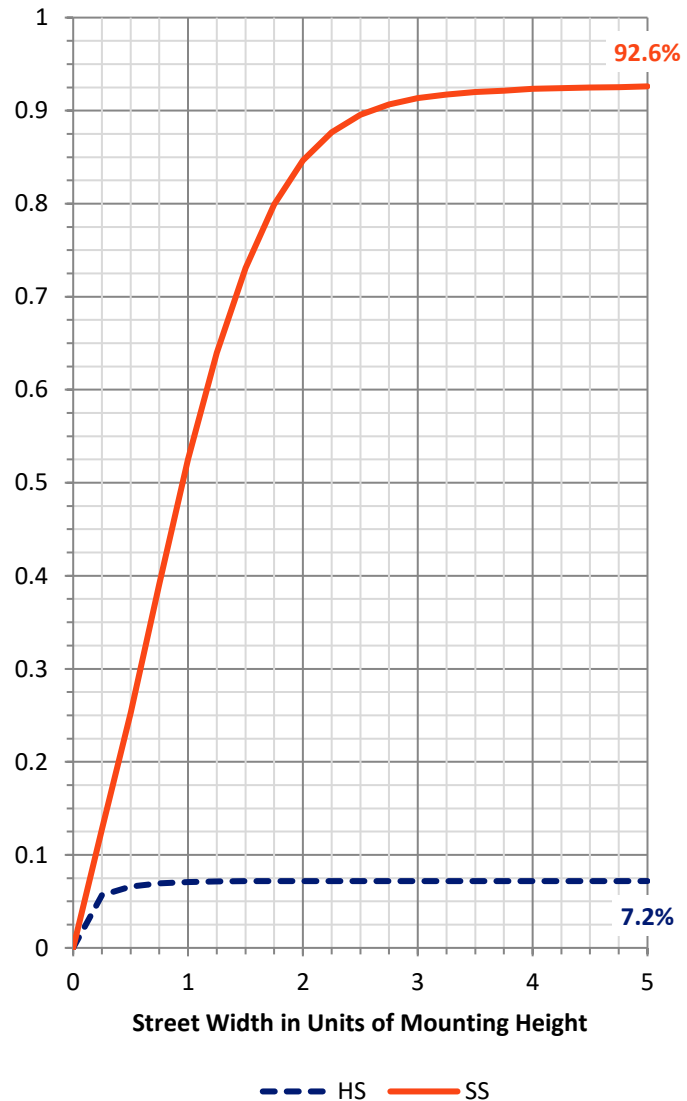
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	218.8	0.0	218.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2811.2	0.0	2811.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3030.0	0.0	3030.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.7	1.5
10°-20°	101.7	3.4
20°-30°	163.8	5.4
30°-40°	284.8	9.4
40°-50°	470.7	15.5
50°-60°	727.1	24.0
60°-70°	887.9	29.3
70°-80°	337.0	11.1
80°-90°	11.2	0.4
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°	3030.0	100.0
0°-180°	3030.0	100.0



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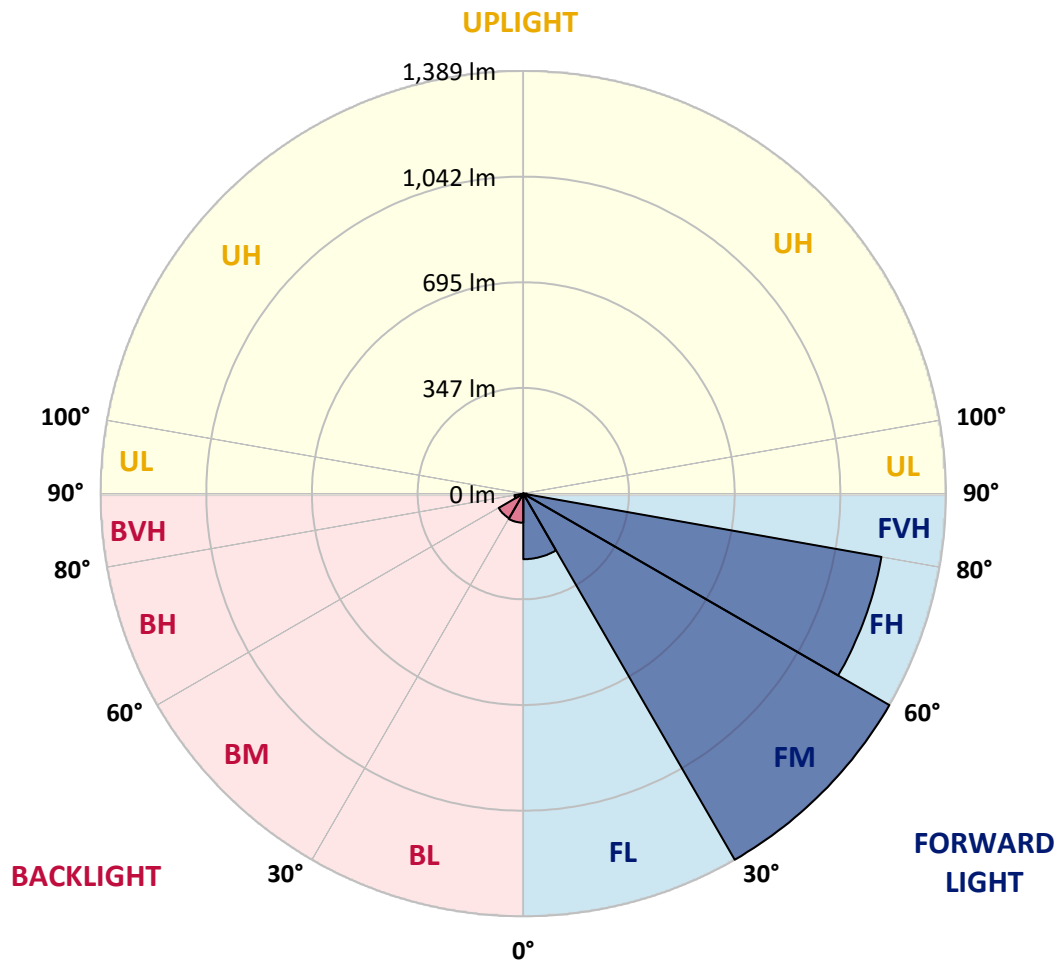
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.5	7.1			
FM (30°-60°)	1389.3	45.9			
FH (60°-80°)	1195.2	39.4			G1/1800
FVH (80°-90°)	11.1	0.4			G1/100
BL (0°-30°)	95.6	3.2	B0/110		
BM (30°-60°)	93.4	3.1	B0/220		
BH (60°-80°)	29.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3
2.5°	529.7	529.9	531.2	534.4	539.3	543.4	546.8	552.4	556.2	556.6	557.9
5°	493.1	490.5	493.1	501.4	508.9	520.3	534.2	548.1	560.5	561.3	567.3
7.5°	452.0	454.2	458.2	466.8	480.9	498.2	518.3	543.2	566.7	568.8	580.6
10°	410.3	415.0	421.6	434.7	454.4	476.8	504.2	539.7	576.5	579.5	599.9
12.5°	371.8	373.9	382.1	399.6	424.0	455.7	493.5	537.8	587.4	591.1	620.4
15°	342.3	345.1	352.1	368.0	395.1	435.8	484.8	537.2	598.1	603.3	640.9
17.5°	336.7	338.4	341.4	352.1	375.9	419.9	476.8	537.0	608.4	614.6	660.0
20°	359.6	358.1	355.1	354.0	367.1	407.7	471.1	538.7	618.2	625.3	680.1
22.5°	416.9	418.9	401.3	380.6	376.3	405.8	470.2	546.8	633.9	642.2	702.5
25°	538.7	523.9	496.5	446.9	409.5	417.6	479.8	566.0	652.0	661.2	722.9
27.5°	673.2	668.7	626.2	544.4	474.7	442.4	497.0	580.8	658.0	667.5	734.4
30°	805.4	810.8	762.0	671.7	569.5	488.4	513.0	586.4	663.4	673.2	749.2
32.5°	928.0	934.4	891.6	802.2	681.1	568.0	540.6	608.0	685.8	695.9	773.8
35°	1024.5	1025.3	993.0	921.8	803.1	664.7	600.3	645.8	716.2	728.0	799.9
37.5°	1113.1	1111.8	1073.9	1012.5	904.7	760.7	675.4	689.5	750.9	763.1	837.5
40°	1178.7	1179.6	1167.4	1109.6	999.5	849.5	734.8	730.3	809.1	828.1	892.3
42.5°	1222.6	1230.5	1236.5	1207.2	1118.6	958.8	826.2	817.8	910.0	925.9	969.7
45°	1258.1	1272.2	1302.2	1300.7	1233.1	1093.0	951.5	934.4	1053.2	1070.1	1068.3
47.5°	1284.0	1298.3	1348.0	1377.9	1340.7	1223.0	1109.2	1094.4	1224.1	1242.5	1177.2
50°	1297.3	1314.4	1377.7	1435.7	1424.8	1348.4	1288.9	1289.8	1430.5	1448.3	1303.5
52.5°	1266.2	1288.5	1393.5	1497.9	1519.1	1468.4	1457.3	1485.5	1614.3	1629.5	1417.5
55°	1167.2	1195.2	1371.9	1551.0	1628.4	1610.0	1648.5	1691.5	1815.2	1825.0	1534.5
57.5°	1104.5	1134.2	1308.2	1596.1	1759.8	1788.0	1849.0	1880.4	2022.5	2047.5	1668.8
60°	1051.7	1075.0	1255.7	1605.7	1893.3	2005.8	2065.0	2097.5	2278.3	2294.6	1816.7
62.5°	963.7	990.5	1167.2	1538.6	1960.4	2180.1	2302.9	2288.4	2476.2	2487.5	1907.4
65°	822.3	824.7	987.5	1369.8	1891.1	2293.3	2470.0	2409.0	2570.8	2578.5	1900.3
67.5°	613.8	636.4	759.7	1076.7	1597.4	2196.6	2524.1	2412.2	2511.1	2489.7	1749.5
70°	395.3	412.7	514.9	746.6	1151.8	1833.1	2344.6	2246.9	2203.9	2156.4	1432.0
72.5°	182.5	204.7	305.9	426.6	683.1	1305.8	1903.3	1825.4	1586.3	1469.0	910.3
75°	79.6	85.1	151.0	225.1	320.2	690.6	1254.9	1133.2	716.4	654.4	364.3
77.5°	48.6	52.2	79.2	120.7	125.8	263.1	676.0	494.4	221.4	195.3	98.8
80°	32.9	37.0	57.5	63.1	43.0	73.4	253.7	132.0	44.7	42.8	21.2
82.5°	16.0	20.3	42.6	35.3	18.6	23.5	73.8	28.2	13.0	12.2	7.5
85°	2.4	4.1	24.0	23.1	8.3	5.6	13.0	7.1	4.5	4.3	3.4
87.5°	0.0	0.0	8.1	3.6	0.9	0.9	1.5	1.5	1.7	1.5	1.7
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°	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3	554.3
2.5°	558.6	559.6	555.6	549.8	543.6	537.4	528.6	520.7	516.0	518.8	511.9
5°	568.6	567.8	557.1	539.5	516.2	488.2	460.4	436.6	428.9	417.4	416.1
7.5°	582.5	580.2	557.5	517.3	464.6	412.0	360.7	326.7	307.2	290.7	291.2
10°	602.0	595.1	552.6	478.1	391.5	312.1	246.7	201.7	182.3	176.1	171.1
12.5°	622.1	608.8	538.9	425.3	304.8	213.3	150.0	122.6	110.6	106.7	106.3
15°	640.1	619.1	514.9	361.7	221.6	136.3	102.3	93.3	91.8	92.0	91.8
17.5°	657.8	627.2	481.8	294.4	150.6	97.8	87.9	85.8	86.4	87.3	87.1
20°	672.6	628.9	439.4	224.6	106.5	85.8	82.6	82.1	82.8	83.4	83.4
22.5°	688.6	630.2	389.1	155.5	87.1	79.8	78.1	78.1	78.9	79.8	80.0
25°	700.6	623.2	329.0	111.7	76.8	74.0	73.2	73.4	74.2	74.7	74.4
27.5°	702.5	603.3	265.3	85.6	69.7	67.0	66.1	67.0	65.9	66.5	66.1
30°	704.2	578.0	200.7	72.1	63.3	59.0	57.8	56.5	55.6	54.6	54.3
32.5°	709.6	548.3	146.5	64.8	57.3	52.6	49.6	46.0	43.2	42.4	42.1
35°	711.9	512.6	107.6	59.0	52.0	46.8	41.5	36.4	32.3	30.8	31.9
37.5°	720.9	477.9	83.4	54.8	47.3	40.9	34.0	27.6	23.7	22.9	23.3
40°	739.3	440.3	70.0	51.1	43.2	35.3	27.0	20.8	18.2	17.3	17.1
42.5°	768.9	402.8	62.3	47.7	39.1	29.7	21.2	16.3	14.1	13.5	13.5
45°	804.8	366.9	56.9	44.1	34.9	24.0	16.7	13.0	11.8	11.3	11.3
47.5°	852.1	335.4	52.4	40.4	30.2	19.0	13.5	11.3	10.5	10.7	10.9
50°	900.0	312.1	47.5	36.4	24.8	15.6	11.6	10.1	9.8	10.1	10.1
52.5°	936.1	298.4	40.9	30.8	19.5	13.0	10.3	9.4	9.2	8.8	8.8
55°	984.9	295.4	32.5	25.0	15.4	10.9	9.2	8.6	7.9	7.5	7.3
57.5°	1047.6	298.9	25.0	19.5	12.0	9.0	8.1	7.1	6.2	5.3	5.3
60°	1086.5	291.2	19.5	15.0	8.8	7.3	6.2	5.1	4.1	3.4	3.2
62.5°	1074.1	258.6	15.4	11.1	6.2	5.3	4.1	3.4	2.4	1.7	1.5
65°	1010.2	208.8	12.4	7.7	4.5	3.2	2.1	2.1	1.1	0.2	0.0
67.5°	884.2	154.7	9.8	5.1	2.6	1.5	1.1	0.6	0.0	0.0	0.0
70°	719.6	111.7	7.7	3.2	1.5	1.1	0.4	0.2	0.0	0.0	0.0
72.5°	456.9	64.0	6.0	1.9	1.1	0.4	0.0	0.0	0.0	0.0	0.0
75°	176.7	25.0	4.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	50.1	11.8	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.0	5.1	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.2	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)