

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: P651206

Luminaire Tested: **GALN-SA1D-840-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651206  
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-SA1D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA 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: 5154.5 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

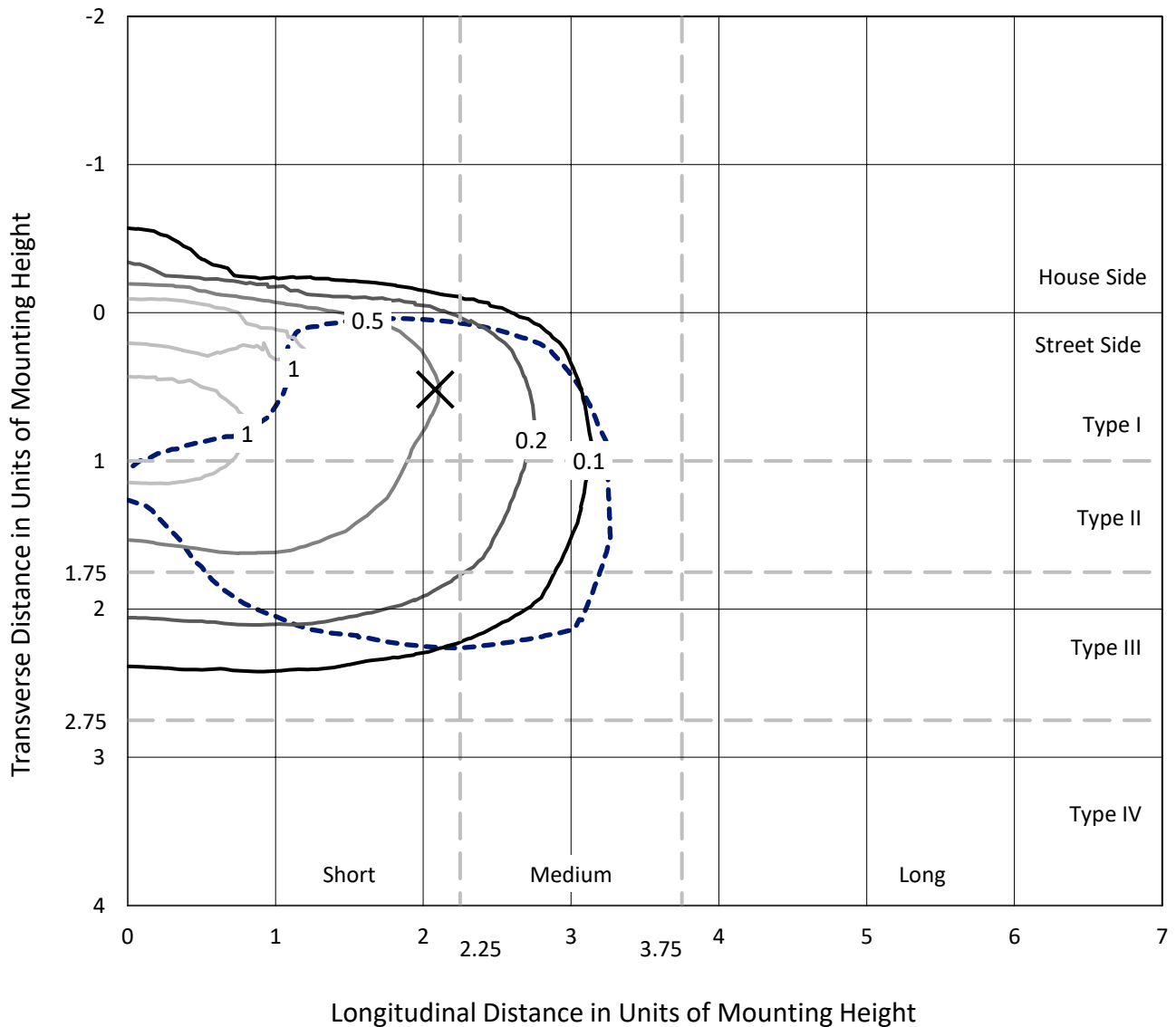
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

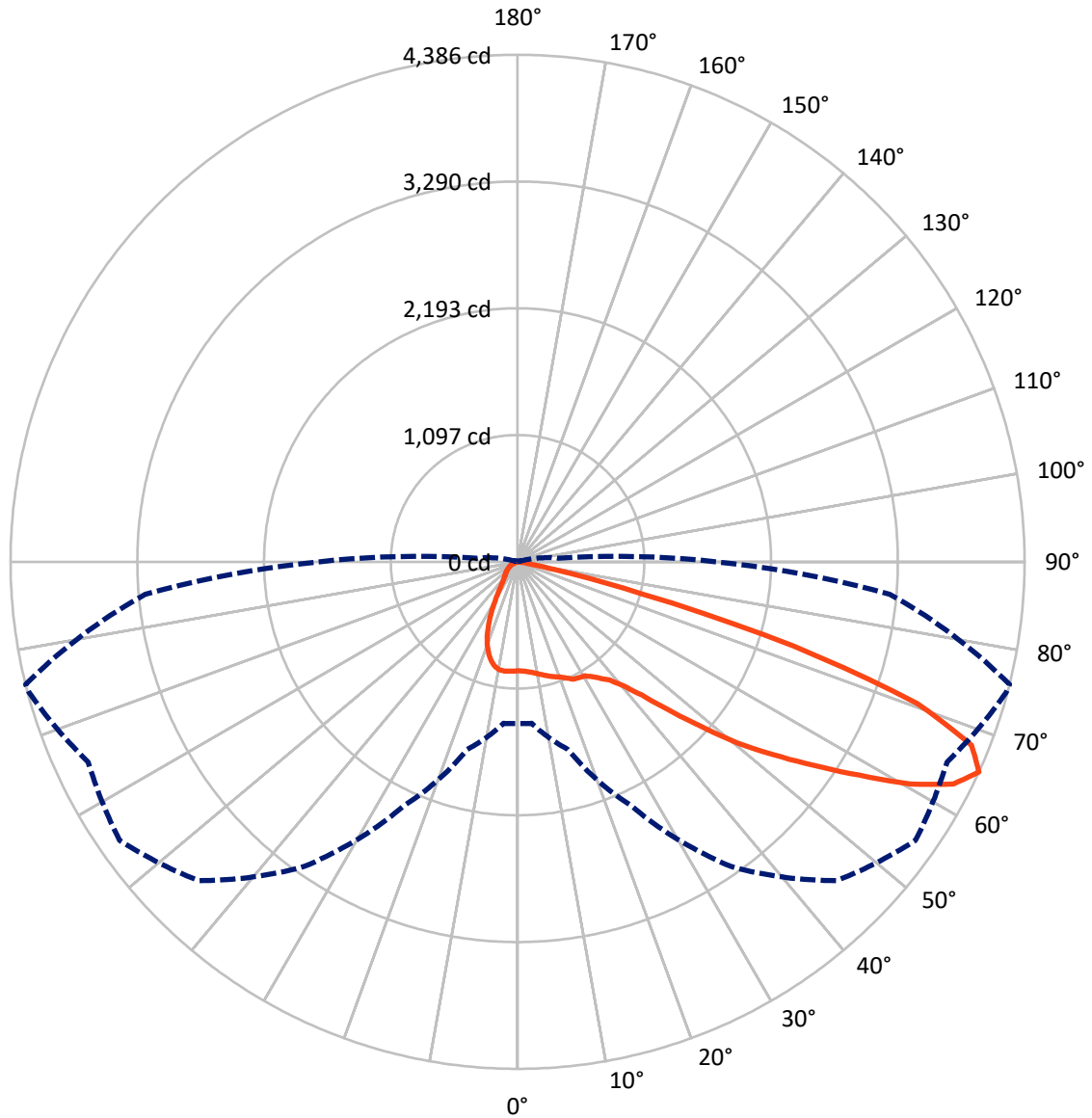
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type 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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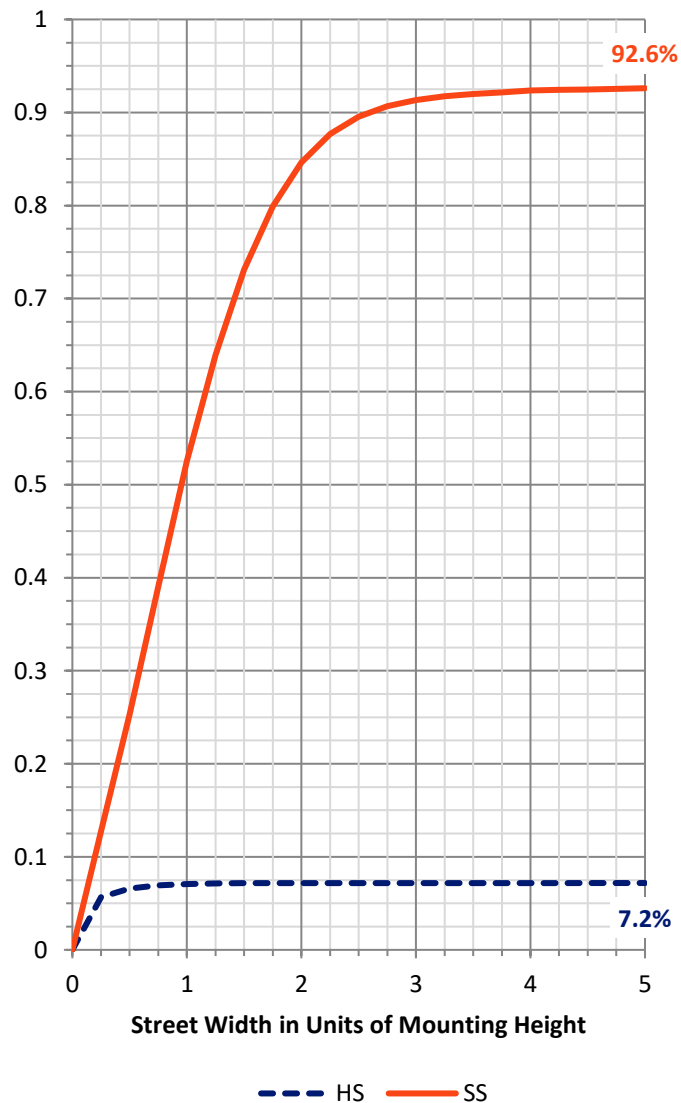
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	372.3	0.0	372.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	4782.2	0.0	4782.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5154.5	0.0	5154.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.7	1.5
10°-20°	172.9	3.4
20°-30°	278.7	5.4
30°-40°	484.6	9.4
40°-50°	800.7	15.5
50°-60°	1237.0	24.0
60°-70°	1510.5	29.3
70°-80°	573.3	11.1
80°-90°	19.1	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°	5154.5	100.0
0°-180°	5154.5	100.0

**Coefficient of Utilization**



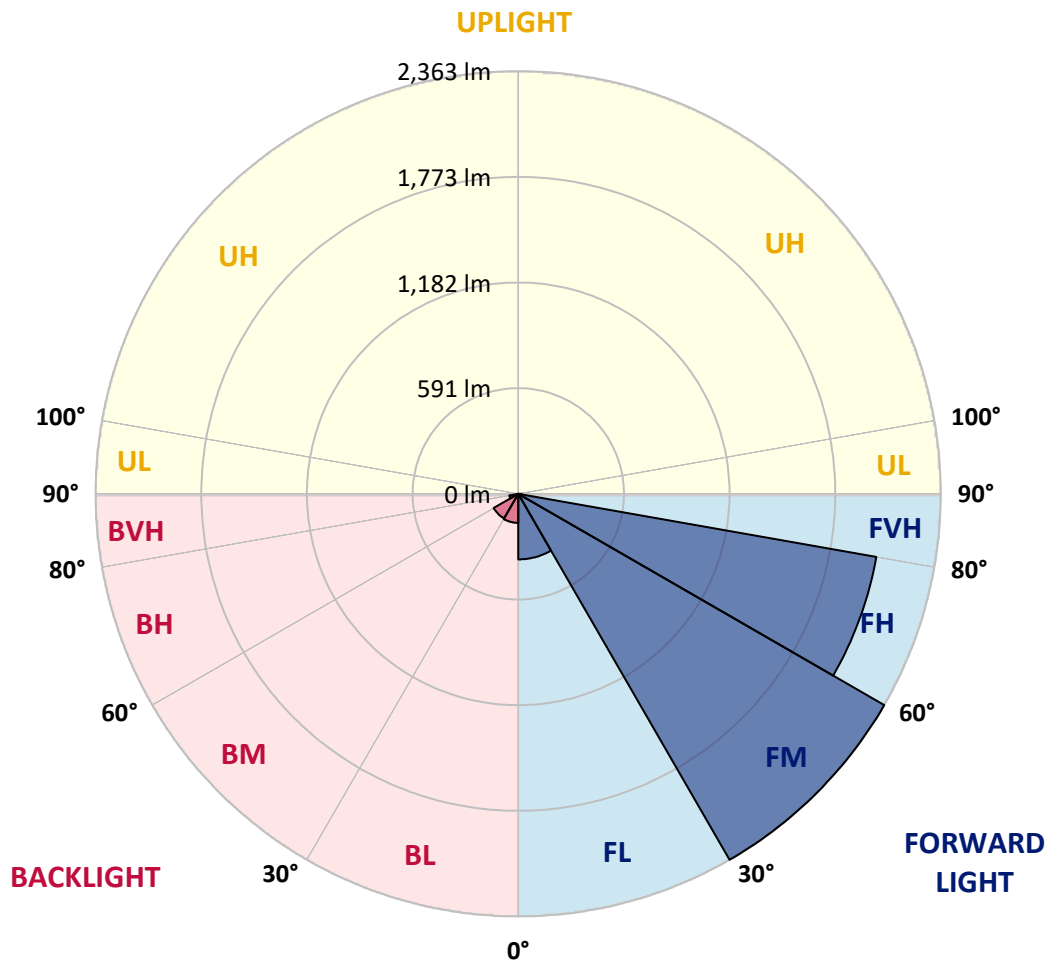
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.7	7.1			
FM (30°-60°)	2363.4	45.9			
FH (60°-80°)	2033.3	39.4			G2/5000
FVH (80°-90°)	18.9	0.4			G1/100
BL (0°-30°)	162.6	3.2	B1/500		
BM (30°-60°)	158.9	3.1	B0/220		
BH (60°-80°)	50.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9
2.5°	901.0	901.5	903.7	909.0	917.4	924.3	930.1	939.6	946.2	946.9	949.1
5°	838.8	834.4	838.8	853.0	865.8	885.1	908.7	932.3	953.4	955.0	965.1
7.5°	768.9	772.6	779.5	794.1	818.1	847.6	881.8	924.0	964.0	967.7	987.7
10°	698.0	706.0	717.3	739.5	773.0	811.1	857.7	918.2	980.8	985.9	1020.5
12.5°	632.5	636.1	649.9	679.8	721.3	775.1	839.6	914.9	999.4	1005.5	1055.4
15°	582.3	587.0	599.0	626.0	672.1	741.3	824.7	913.8	1017.5	1026.3	1090.3
17.5°	572.8	575.7	580.8	599.0	639.4	714.3	811.1	913.4	1035.0	1045.5	1122.7
20°	611.7	609.2	604.1	602.3	624.5	693.7	801.4	916.4	1051.8	1063.8	1156.9
22.5°	709.3	712.6	682.7	647.4	640.2	690.4	799.9	930.1	1078.3	1092.5	1195.1
25°	916.4	891.2	844.7	760.3	696.5	710.4	816.3	962.9	1109.2	1124.9	1229.7
27.5°	1145.3	1137.6	1065.2	926.2	807.5	752.6	845.4	988.0	1119.5	1135.4	1249.3
30°	1370.2	1379.2	1296.3	1142.8	968.7	830.8	872.7	997.5	1128.5	1145.3	1274.5
32.5°	1578.7	1589.6	1516.8	1364.7	1158.7	966.2	919.6	1034.3	1166.7	1183.9	1316.3
35°	1742.8	1744.2	1689.3	1568.1	1366.1	1130.7	1021.1	1098.7	1218.4	1238.5	1360.7
37.5°	1893.5	1891.3	1826.9	1722.5	1539.0	1294.1	1148.9	1172.9	1277.4	1298.1	1424.7
40°	2005.2	2006.6	1985.9	1887.6	1700.2	1445.1	1250.1	1242.4	1376.4	1408.8	1517.9
42.5°	2079.8	2093.2	2103.4	2053.6	1902.9	1631.1	1405.5	1391.3	1548.1	1575.0	1649.6
45°	2140.3	2164.2	2215.2	2212.7	2097.6	1859.3	1618.8	1589.6	1791.6	1820.3	1817.4
47.5°	2184.2	2208.6	2293.1	2344.0	2280.7	2080.5	1887.0	1861.8	2082.4	2113.7	2002.7
50°	2206.8	2236.0	2343.6	2442.3	2423.7	2293.8	2192.7	2194.1	2433.5	2463.7	2217.4
52.5°	2154.1	2191.9	2370.6	2548.1	2584.2	2497.9	2479.0	2527.0	2746.1	2772.0	2411.3
55°	1985.5	2033.2	2333.9	2638.5	2770.2	2738.9	2804.4	2877.6	3087.9	3104.6	2610.4
57.5°	1879.0	1929.5	2225.4	2715.3	2993.6	3041.6	3145.3	3198.9	3440.5	3483.1	2839.0
60°	1789.1	1828.7	2136.2	2731.6	3220.7	3412.1	3512.9	3568.3	3875.7	3903.4	3090.4
62.5°	1639.4	1684.9	1985.5	2617.4	3335.0	3708.7	3917.6	3892.9	4212.4	4231.7	3244.7
65°	1398.9	1403.0	1679.9	2330.2	3217.1	3901.2	4201.8	4098.1	4373.3	4386.3	3232.7
67.5°	1044.1	1082.7	1292.3	1831.6	2717.4	3736.7	4293.9	4103.6	4271.7	4235.4	2976.1
70°	672.5	702.0	876.0	1270.1	1959.4	3118.4	3988.6	3822.3	3749.1	3668.4	2436.1
72.5°	310.4	348.3	520.4	725.7	1162.0	2221.4	3237.8	3105.3	2698.5	2499.0	1548.4
75°	135.4	144.8	256.9	382.8	544.8	1174.7	2134.8	1927.7	1218.8	1113.2	619.7
77.5°	82.6	88.8	134.6	205.3	214.0	447.7	1150.0	841.0	376.7	332.3	168.1
80°	56.0	63.0	97.9	107.4	73.2	124.8	431.6	224.5	76.0	72.7	36.0
82.5°	27.3	34.6	72.4	60.0	31.6	40.0	125.6	48.0	22.2	20.8	12.7
85°	4.0	6.9	40.8	39.3	14.2	9.5	22.2	12.0	7.7	7.3	5.8
87.5°	0.0	0.0	13.8	6.2	1.4	1.4	2.5	2.5	2.9	2.5	2.9
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°	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9	942.9
2.5°	950.2	952.0	945.1	935.3	924.8	914.2	899.3	885.8	877.8	882.5	870.9
5°	967.3	965.9	947.6	917.8	878.2	830.5	783.1	742.8	729.7	710.0	707.8
7.5°	991.0	986.9	948.4	879.9	790.5	700.9	613.6	555.7	522.6	494.6	495.3
10°	1024.1	1012.4	940.0	813.3	666.0	530.9	419.6	343.2	310.1	299.5	291.2
12.5°	1058.3	1035.7	916.7	723.5	518.6	362.8	255.1	208.6	188.1	181.6	180.9
15°	1088.8	1053.2	876.0	615.4	377.0	231.8	173.9	158.7	156.1	156.5	156.1
17.5°	1119.0	1067.0	819.6	500.7	256.2	166.3	149.5	145.9	147.0	148.5	148.1
20°	1144.2	1069.9	747.5	382.2	181.2	145.9	140.4	139.8	140.9	142.0	142.0
22.5°	1171.4	1072.1	662.0	264.6	148.1	135.7	132.8	132.8	134.3	135.7	136.1
25°	1191.9	1060.1	559.7	190.0	130.6	125.9	124.5	124.8	126.3	127.0	126.7
27.5°	1195.1	1026.3	451.3	145.6	118.7	113.9	112.4	113.9	112.1	113.2	112.4
30°	1198.0	983.3	341.4	122.6	107.7	100.4	98.2	96.0	94.6	92.8	92.4
32.5°	1207.1	932.8	249.3	110.3	97.6	89.6	84.4	78.2	73.5	72.1	71.7
35°	1211.1	871.9	183.1	100.4	88.5	79.7	70.6	61.9	54.9	52.4	54.2
37.5°	1226.4	813.0	142.0	93.2	80.4	69.6	57.9	46.9	40.4	38.9	39.7
40°	1257.7	748.9	119.0	87.0	73.5	60.0	45.8	35.3	30.9	29.5	29.1
42.5°	1307.9	685.2	105.9	81.2	66.6	50.5	36.0	27.7	24.1	23.0	23.0
45°	1369.1	624.1	96.8	74.9	59.3	40.8	28.4	22.2	20.0	19.3	19.3
47.5°	1449.5	570.6	89.1	68.8	51.3	32.4	23.0	19.3	17.8	18.2	18.6
50°	1531.0	530.9	80.8	61.9	42.2	26.6	19.7	17.1	16.7	17.1	17.1
52.5°	1592.5	507.7	69.6	52.4	33.1	22.2	17.5	16.0	15.6	14.9	14.9
55°	1675.5	502.6	55.3	42.6	26.2	18.6	15.6	14.5	13.5	12.7	12.4
57.5°	1782.2	508.4	42.6	33.1	20.4	15.3	13.8	12.0	10.5	9.1	9.1
60°	1848.3	495.3	33.1	25.5	14.9	12.4	10.5	8.7	6.9	5.8	5.5
62.5°	1827.2	440.0	26.2	18.9	10.5	9.1	6.9	5.8	4.0	2.9	2.5
65°	1718.4	355.2	21.1	13.1	7.7	5.5	3.6	3.6	1.9	0.3	0.0
67.5°	1504.1	263.1	16.7	8.7	4.4	2.5	1.9	1.1	0.0	0.0	0.0
70°	1224.2	190.0	13.1	5.5	2.5	1.9	0.8	0.3	0.0	0.0	0.0
72.5°	777.3	108.8	10.2	3.3	1.9	0.8	0.0	0.0	0.0	0.0	0.0
75°	300.6	42.6	6.9	2.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	85.2	20.0	4.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.2	8.7	2.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	3.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.3	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)