

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: P526757

Luminaire Tested: **GALN-SA1D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862 lumens  
Efficiency: N/A  
Efficacy: 59.4 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

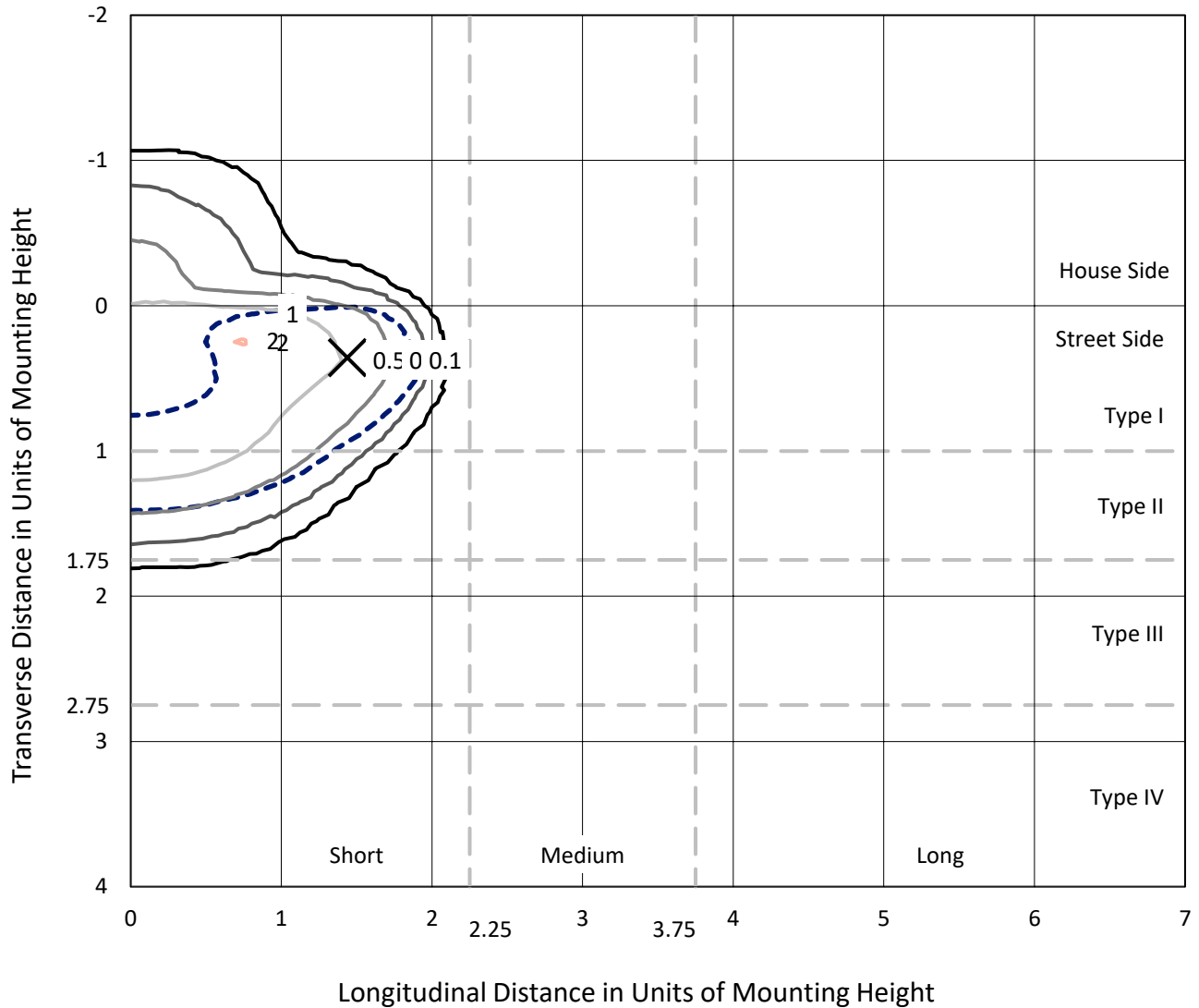
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

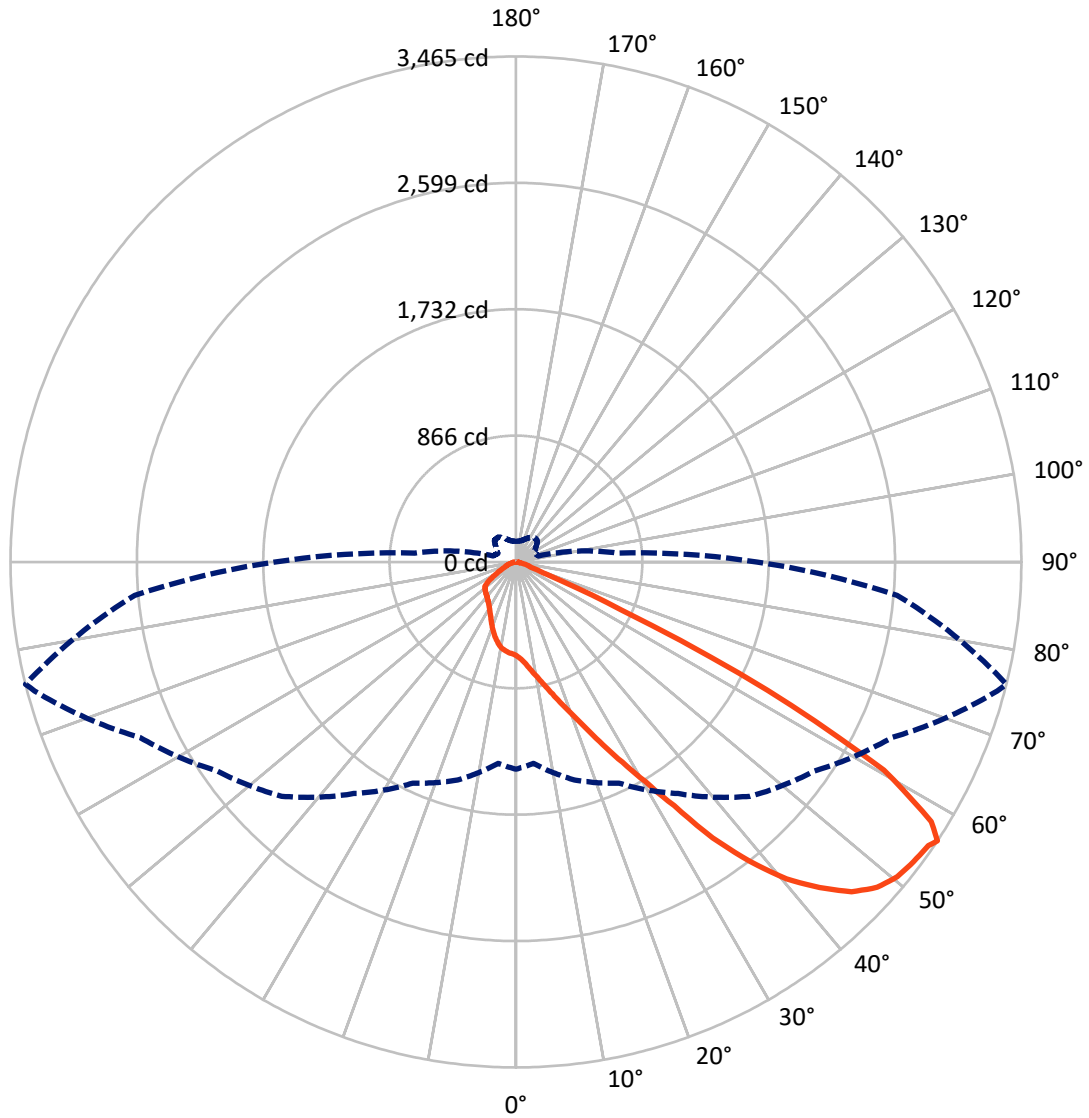
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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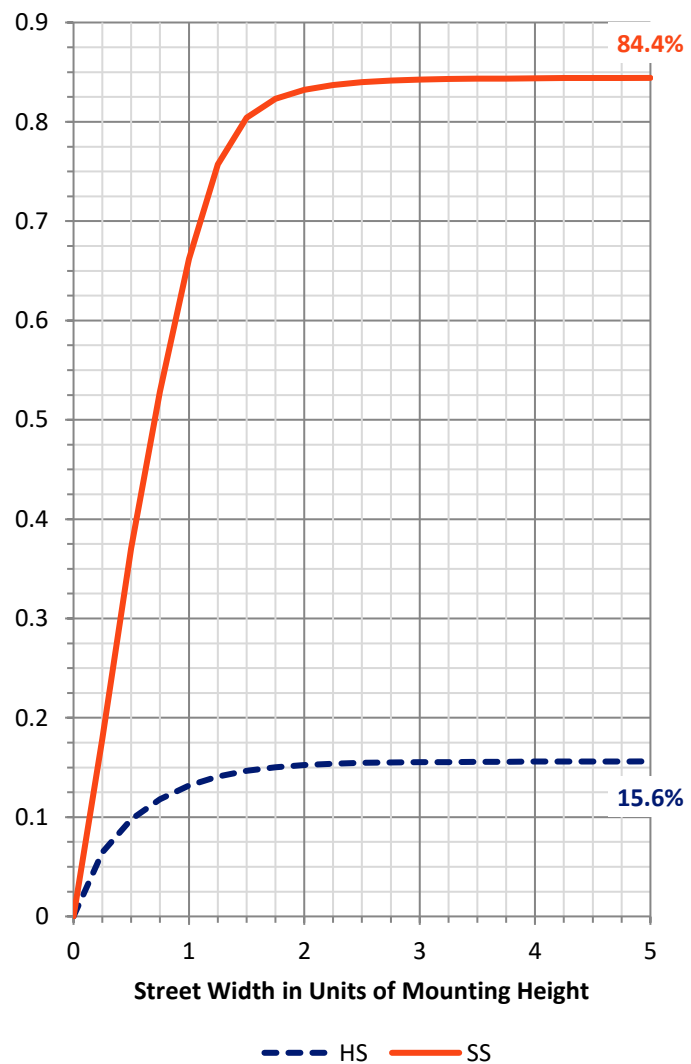
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	606.7	0.0	606.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	3255.3	0.0	3255.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	3862.0	0.0	3862.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.7
10°-20°	208.0	5.4
20°-30°	377.2	9.8
30°-40°	650.6	16.8
40°-50°	1056.8	27.4
50°-60°	1114.0	28.8
60°-70°	340.4	8.8
70°-80°	43.6	1.1
80°-90°	6.6	0.2
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°	3862.0	100.0
0°-180°	3862.0	100.0

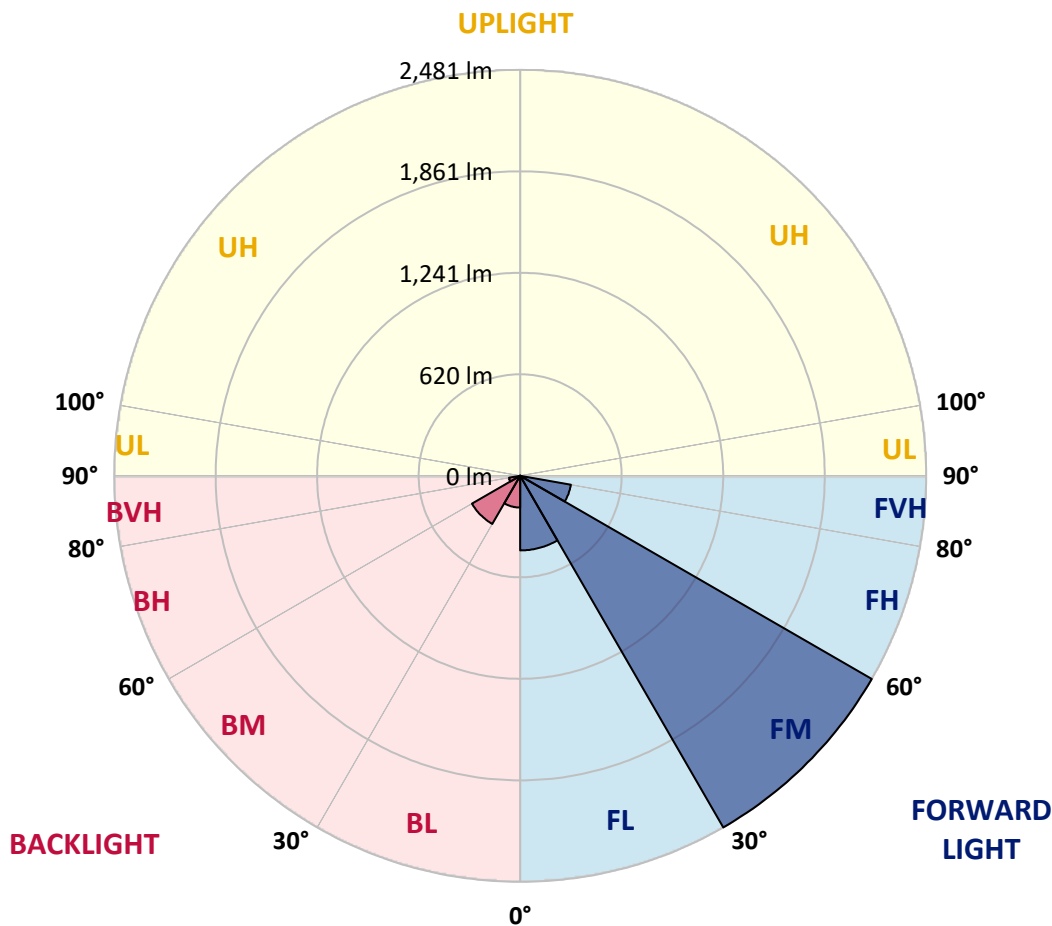


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.9	11.8			
FM (30°-60°)	2481.3	64.2			
FH (60°-80°)	314.8	8.2			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	194.1	5.0	B1/500		
BM (30°-60°)	340.0	8.8	B1/1000		
BH (60°-80°)	69.2	1.8	B0/110		G0/110
BVH (80°-90°)	3.4	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°	55°	65°	75°	76°	85°
0°	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
2.5°	740.4	723.3	724.0	722.6	720.4	712.6	689.1	685.5	669.9	665.6	651.4
5°	829.4	814.4	822.9	810.1	798.0	790.9	752.5	734.7	709.8	700.5	680.6
7.5°	884.9	877.8	874.9	875.6	864.2	846.4	829.4	790.2	756.7	749.6	707.6
10°	911.9	907.7	911.9	909.8	914.8	916.9	887.0	863.5	814.4	802.3	736.8
12.5°	918.3	926.9	930.4	939.7	951.8	972.4	970.3	938.3	872.8	864.9	781.7
15°	934.0	941.1	937.6	952.5	975.3	1010.2	1028.7	1023.7	953.2	939.0	833.6
17.5°	948.2	935.4	947.5	977.4	1000.2	1053.6	1098.4	1119.1	1040.8	1024.4	881.3
20°	967.5	963.9	961.8	976.7	1017.3	1088.5	1177.5	1215.2	1139.0	1121.9	949.7
22.5°	1025.8	1026.5	1025.1	1003.1	1032.2	1112.7	1246.5	1339.8	1256.5	1242.2	1027.3
25°	1102.7	1093.5	1086.3	1068.5	1065.0	1134.8	1316.3	1492.1	1397.4	1387.5	1111.3
27.5°	1183.9	1183.9	1162.5	1146.1	1123.4	1189.6	1380.4	1640.2	1567.6	1554.1	1184.6
30°	1272.1	1277.1	1274.3	1239.4	1225.2	1249.4	1445.8	1829.6	1762.6	1745.6	1305.6
32.5°	1402.4	1391.7	1403.8	1374.7	1332.7	1354.0	1549.1	1999.0	2016.1	1991.9	1464.4
35°	1574.7	1568.3	1560.5	1512.8	1462.9	1480.0	1695.0	2207.6	2334.3	2322.2	1624.5
37.5°	1729.2	1725.6	1719.2	1686.5	1628.8	1649.4	1860.9	2424.7	2644.7	2604.8	1850.9
40°	1891.5	1910.7	1890.1	1860.9	1808.2	1853.8	2055.9	2553.5	2905.9	2857.5	2023.9
42.5°	2111.5	2096.5	2105.8	2052.4	2023.9	2073.7	2251.7	2682.4	3108.8	3051.2	2207.6
45°	2345.7	2346.4	2321.5	2304.4	2230.3	2284.5	2372.0	2753.6	3270.4	3225.6	2346.4
47.5°	2495.9	2495.2	2522.2	2549.3	2473.1	2419.7	2453.9	2821.2	3353.7	3333.1	2396.9
50°	2472.4	2479.5	2514.4	2615.5	2655.3	2583.4	2530.8	2801.3	3391.4	3389.3	2440.4
52.5°	2150.6	2174.1	2232.5	2378.4	2579.2	2668.2	2611.2	2838.3	3409.9	3413.5	2505.1
55°	1637.3	1650.2	1761.2	1938.5	2160.6	2465.3	2579.2	2867.5	3424.2	3430.6	2583.4
56°	1420.2	1386.0	1546.2	1672.2	1937.8	2270.9	2498.0	2844.7	3415.6	3464.8	2622.6
57.5°	1072.1	1049.3	1178.9	1336.2	1591.8	1943.5	2246.0	2737.2	3358.0	3357.3	2566.4
60°	652.1	629.3	729.0	821.5	964.6	1196.7	1517.7	2179.8	2839.0	2898.8	2078.0
62.5°	388.0	402.2	500.5	556.7	603.0	627.2	785.2	1295.6	1894.3	1937.0	1289.2
65°	258.4	263.4	337.4	430.0	450.6	358.8	319.6	524.7	821.5	795.2	531.8
67.5°	159.5	170.9	226.4	323.2	358.1	262.0	151.6	195.8	226.4	226.4	153.8
70°	96.8	102.5	150.9	220.0	245.6	168.7	110.3	110.3	108.9	106.8	91.8
72.5°	46.3	49.8	76.9	113.2	115.3	89.0	85.4	93.3	91.1	90.4	76.2
75°	19.9	21.4	27.1	35.6	40.6	37.7	52.0	66.9	69.1	66.9	54.8
77.5°	6.4	7.1	10.0	12.8	13.5	16.4	22.1	27.8	32.0	29.9	27.1
80°	0.7	1.4	2.8	6.4	10.0	12.8	16.4	18.5	20.6	20.6	19.2
82.5°	0.7	0.7	2.8	5.7	9.3	12.1	15.7	17.8	20.6	21.4	19.9
85°	0.0	0.7	2.1	5.0	7.8	7.8	7.1	7.1	5.0	5.0	5.0
87.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8	642.8
2.5°	648.5	647.1	627.9	615.8	609.4	596.6	588.7	583.0	578.8	573.8	574.5
5°	657.1	652.1	620.1	598.0	571.6	557.4	545.3	535.3	528.9	527.5	524.7
7.5°	681.3	654.9	606.5	566.7	533.2	519.0	508.3	501.9	504.7	498.3	503.3
10°	699.8	660.6	590.2	532.5	499.0	488.4	482.7	487.6	494.8	491.9	488.4
12.5°	722.6	666.3	563.8	499.7	468.4	460.6	470.6	479.8	494.1	499.7	492.6
15°	748.2	672.7	530.4	462.0	442.1	448.5	465.6	481.9	496.2	503.3	507.6
17.5°	779.5	670.6	497.6	432.1	417.2	435.7	456.3	471.3	492.6	503.3	500.5
20°	808.7	663.5	461.3	402.2	402.9	420.0	437.1	461.3	472.7	486.9	481.9
22.5°	836.5	650.7	423.6	381.6	381.6	407.9	416.5	432.1	442.1	449.2	448.5
25°	875.6	626.5	392.3	361.6	370.2	387.3	394.4	399.4	395.1	400.8	401.5
27.5°	903.4	601.5	366.6	343.8	359.5	372.3	370.2	367.3	357.4	349.5	354.5
30°	933.3	572.4	344.6	331.7	340.3	351.7	343.1	334.6	318.9	306.1	306.8
32.5°	976.0	558.8	325.3	317.5	328.9	330.3	321.1	308.2	292.6	280.5	279.8
35°	1055.7	550.3	309.0	308.2	310.4	311.1	301.8	286.2	279.8	269.8	273.4
37.5°	1135.5	546.0	297.6	294.7	294.0	294.7	284.0	269.1	281.2	280.5	281.9
40°	1237.3	565.2	281.2	277.6	278.3	278.3	264.8	260.6	281.9	284.0	284.8
42.5°	1340.5	589.4	270.5	259.1	262.0	262.0	254.9	249.9	264.8	250.6	248.4
45°	1430.2	625.0	259.1	240.6	247.7	251.3	249.2	240.6	231.4	207.2	207.2
47.5°	1459.4	656.4	245.6	222.8	228.5	244.2	237.8	220.0	203.6	183.7	182.2
50°	1510.6	690.5	234.9	202.2	214.3	233.5	227.1	209.3	190.8	176.5	177.3
52.5°	1563.3	729.7	215.0	178.0	192.9	225.0	225.0	205.0	176.5	166.6	165.2
55°	1642.3	728.3	179.4	145.9	172.3	212.1	215.7	183.7	158.0	150.2	150.2
56°	1653.7	695.5	161.6	136.7	163.0	208.6	209.3	178.0	150.9	142.4	142.4
57.5°	1568.3	627.9	141.7	125.3	151.6	202.2	202.9	173.0	145.2	133.1	131.7
60°	1206.7	425.0	118.2	111.8	137.4	182.2	185.8	157.3	127.4	118.2	117.5
62.5°	681.3	235.6	103.9	101.1	118.2	155.2	165.9	137.4	108.2	103.2	104.6
65°	311.1	129.6	87.6	81.9	95.4	119.6	133.8	113.2	89.0	83.3	83.3
67.5°	113.9	88.3	74.7	64.8	66.9	77.6	86.9	73.3	59.1	50.5	52.7
70°	81.2	74.0	65.5	56.2	52.0	50.5	49.8	41.3	29.2	22.8	24.2
72.5°	65.5	61.2	54.8	47.7	40.6	34.2	29.2	21.4	13.5	9.3	8.5
75°	47.0	44.8	39.9	34.2	28.5	24.2	19.9	13.5	7.1	3.6	3.6
77.5°	24.2	24.2	23.5	21.4	17.8	14.2	11.4	7.8	4.3	1.4	1.4
80°	18.5	19.9	20.6	18.5	16.4	12.8	9.3	5.7	2.8	0.7	0.7
82.5°	17.8	20.6	22.1	19.2	16.4	12.1	9.3	5.7	2.8	0.7	0.7
85°	4.3	4.3	6.4	7.1	9.3	10.0	7.8	5.0	2.1	0.7	0.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	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)