

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: P526785

Luminaire Tested: **GALN-SA1D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4715 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

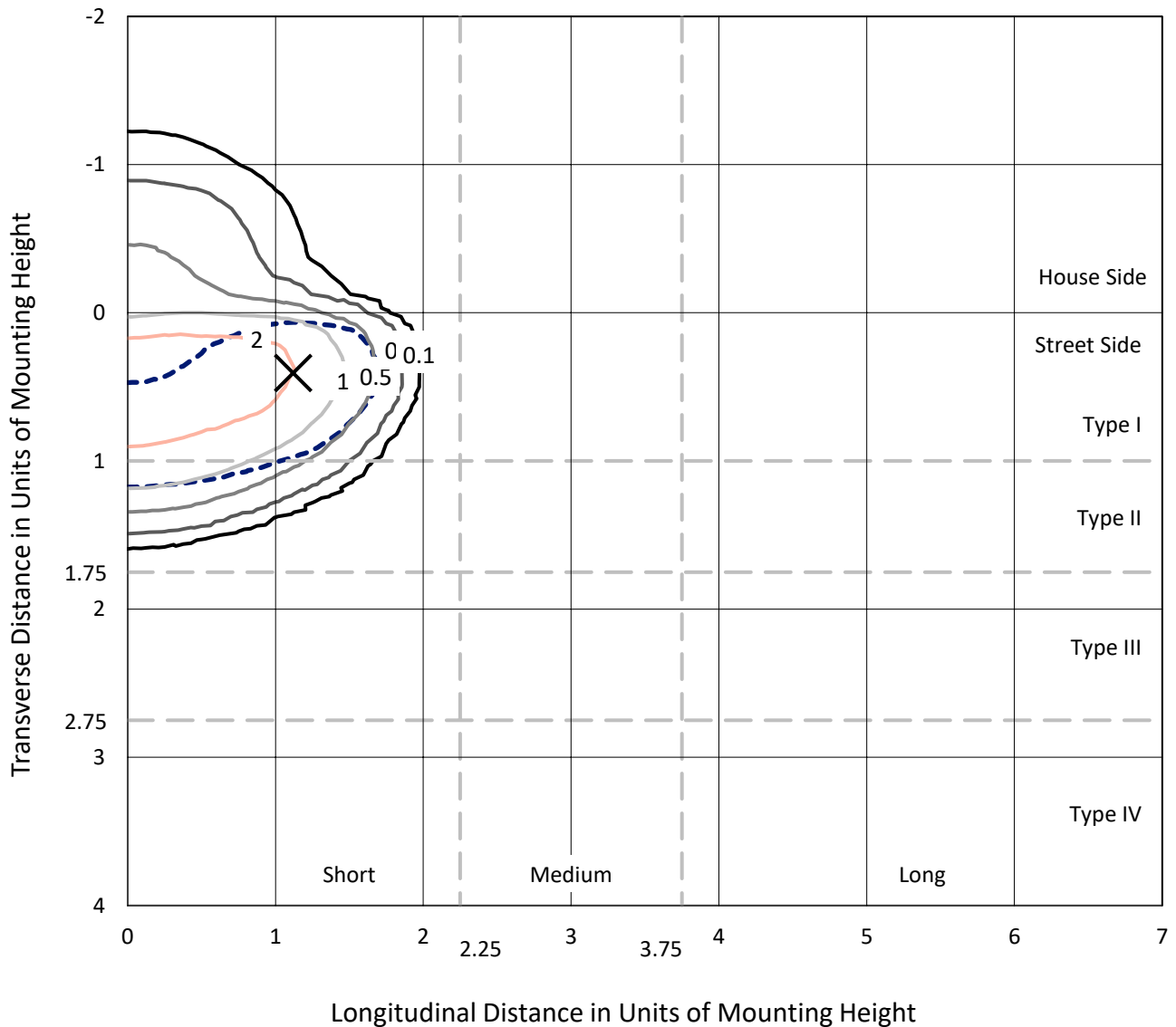
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

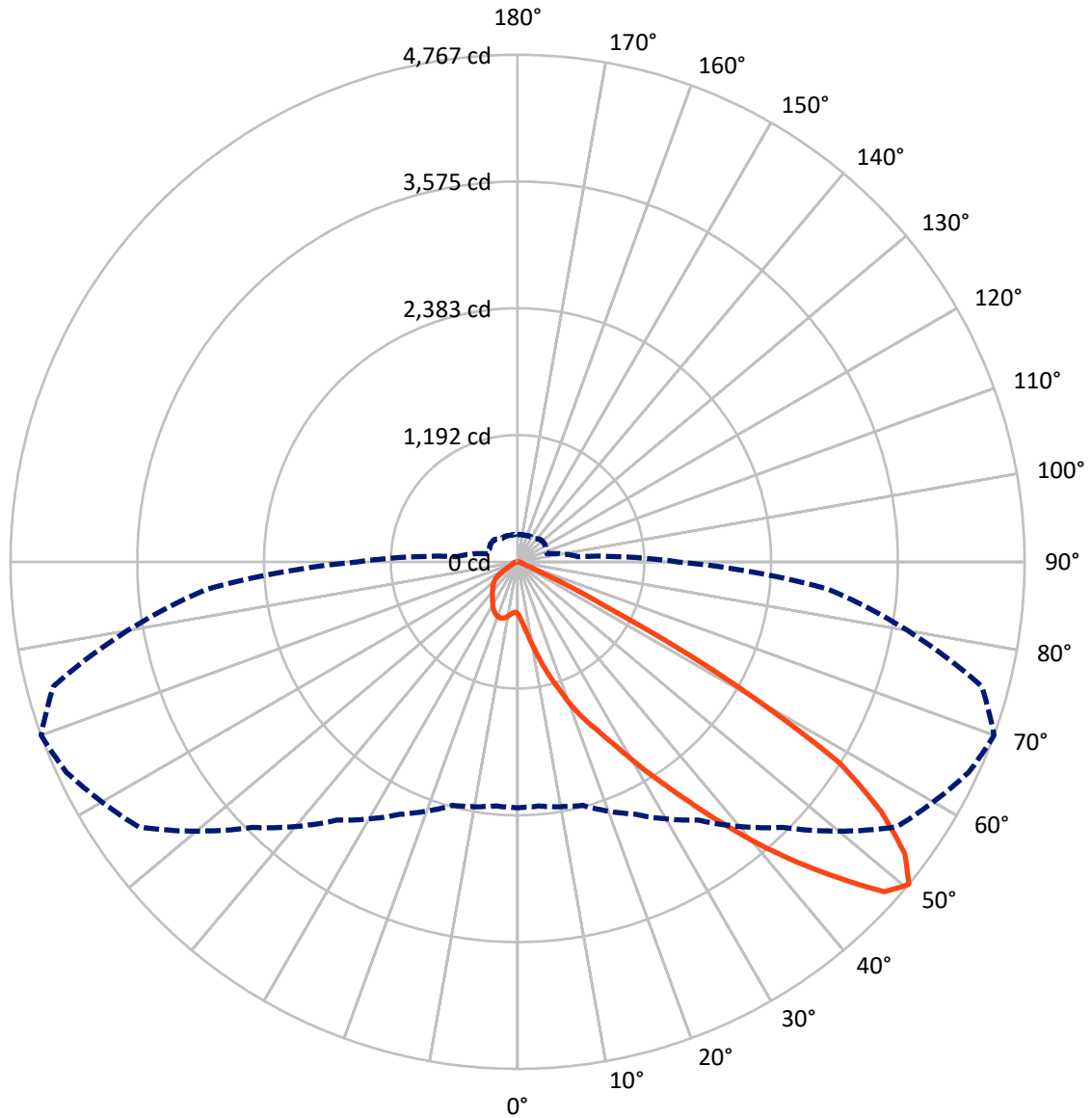
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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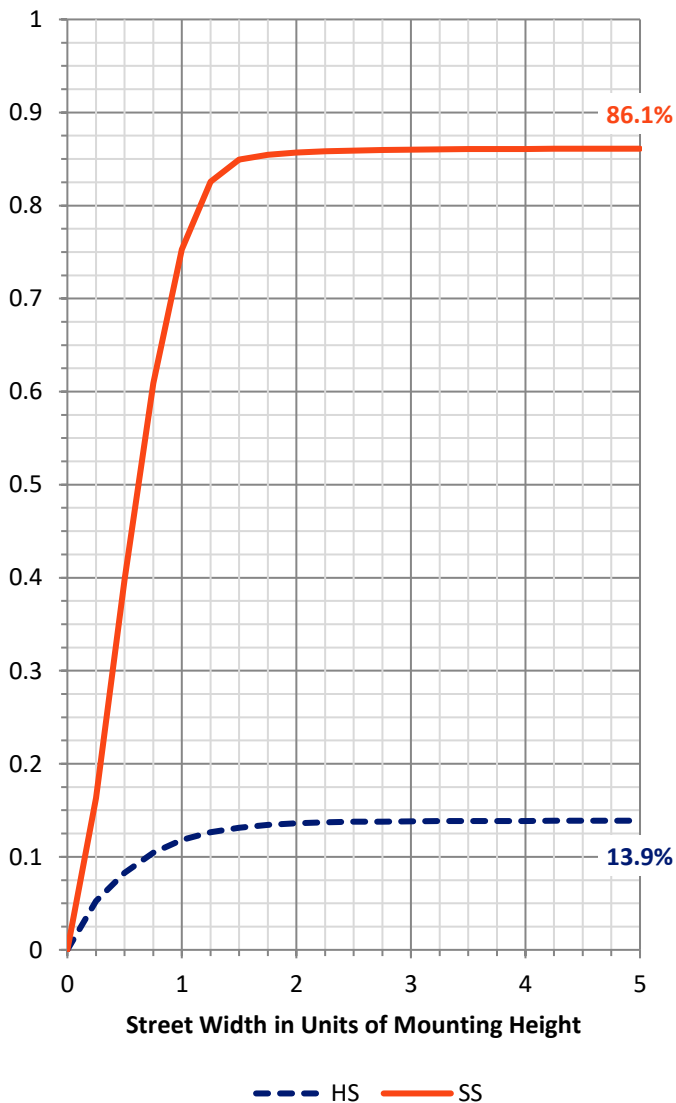
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	658.5	0.0	658.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4056.5	0.0	4056.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4715.0	0.0	4715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	1.3
10°-20°	274.7	5.8
20°-30°	576.3	12.2
30°-40°	993.3	21.1
40°-50°	1451.8	30.8
50°-60°	1130.7	24.0
60°-70°	191.6	4.1
70°-80°	26.3	0.6
80°-90°	6.8	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°	4715.0	100.0
0°-180°	4715.0	100.0

**Coefficient of Utilization**

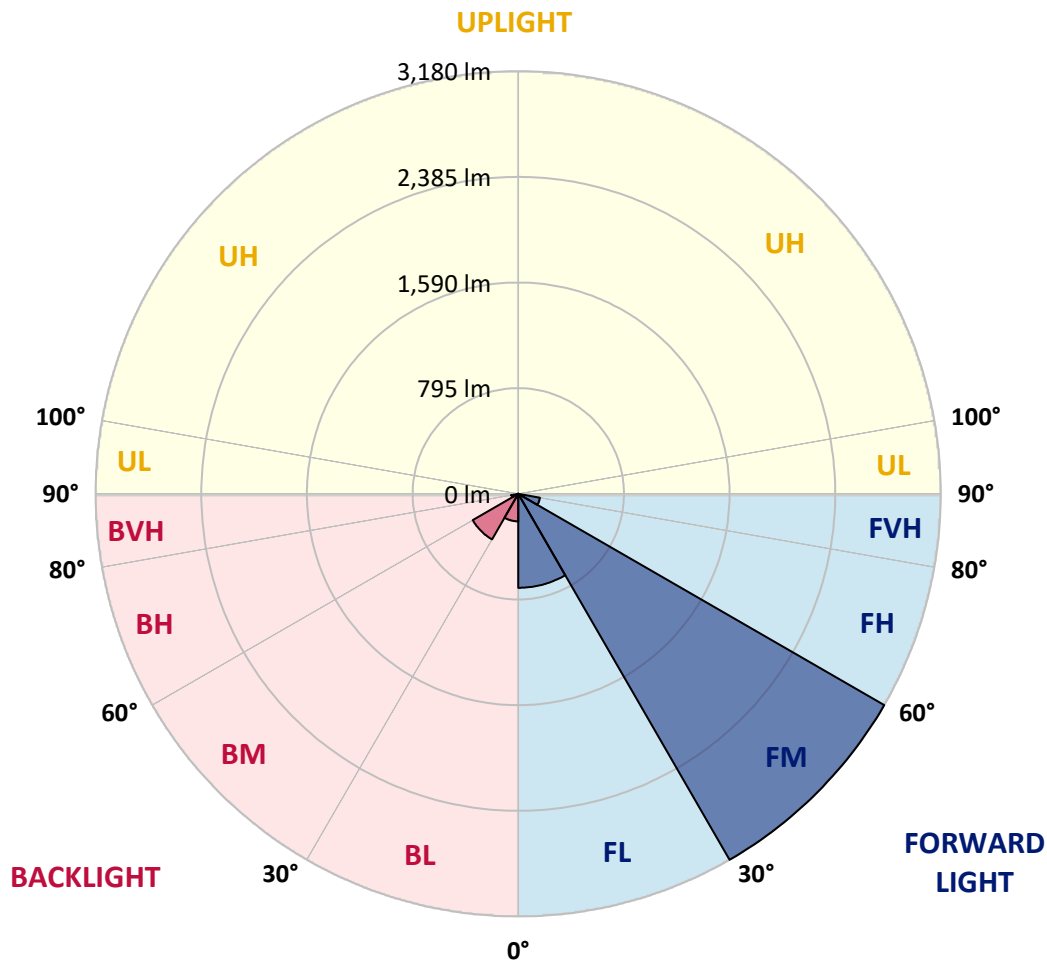


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.3	15.0			
FM (30°-60°)	3180.2	67.4			
FH (60°-80°)	165.9	3.5			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	207.2	4.4	B1/500		
BM (30°-60°)	395.6	8.4	B1/1000		
BH (60°-80°)	52.0	1.1	B0/110		G0/110
BVH (80°-90°)	3.7	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	639.5	634.9	624.8	606.2	598.5	579.9	569.0	548.1	534.9	520.2	503.9
5°	900.8	876.8	862.0	841.1	779.9	741.9	679.1	625.6	600.8	573.7	536.4
7.5°	1170.6	1155.1	1134.9	1089.9	1048.1	969.0	861.3	743.4	693.0	646.5	572.9
10°	1393.8	1350.4	1348.1	1314.8	1269.0	1174.4	1045.0	898.5	808.5	740.3	624.8
12.5°	1549.6	1510.1	1527.9	1524.1	1481.4	1394.6	1245.0	1051.2	957.4	851.2	678.3
15°	1691.5	1675.2	1669.8	1665.1	1648.1	1583.8	1449.6	1237.2	1101.6	973.7	738.8
17.5°	1830.3	1788.4	1808.6	1812.4	1810.9	1752.7	1627.2	1414.0	1254.3	1103.1	802.3
20°	1953.5	1957.4	1930.3	1924.8	1920.2	1917.9	1795.4	1589.2	1441.9	1238.8	885.3
22.5°	2111.7	2084.5	2108.6	2093.1	2062.8	2044.2	1950.4	1744.2	1604.7	1402.4	969.8
25°	2298.5	2320.2	2263.6	2257.4	2224.1	2159.7	2075.2	1917.9	1761.3	1554.3	1061.3
27.5°	2528.7	2490.7	2476.0	2441.9	2381.4	2354.3	2255.1	2096.9	1950.4	1714.0	1149.6
30°	2726.4	2716.3	2642.7	2602.4	2549.7	2548.9	2410.1	2339.6	2196.9	1964.4	1271.3
32.5°	2887.7	2843.5	2816.3	2788.4	2745.8	2757.4	2640.4	2603.1	2459.7	2196.9	1414.8
35°	2995.4	2963.6	2947.3	2904.7	2892.3	2944.2	2895.4	2879.9	2762.1	2524.1	1583.0
37.5°	3029.5	3039.6	3036.5	2983.0	3009.4	3149.7	3212.5	3172.2	3110.1	2869.0	1765.1
40°	3059.7	3066.7	3051.2	3114.0	3189.2	3348.9	3576.0	3509.4	3486.1	3218.7	2018.6
42.5°	3076.8	3071.4	3071.4	3179.9	3293.9	3614.8	3927.2	3883.0	3865.2	3590.8	2311.7
45°	3003.2	2950.4	3007.0	3154.3	3383.8	3745.8	4207.8	4269.1	4243.5	4033.4	2654.3
47.5°	2728.0	2760.5	2792.3	2989.2	3274.5	3705.5	4379.9	4588.5	4635.7	4405.5	2879.1
50°	2311.7	2304.7	2370.6	2618.7	2965.2	3531.8	4346.6	4680.7	4766.8	4517.1	2926.4
52.5°	1681.4	1732.6	1803.9	2050.4	2461.3	3082.2	3916.4	4442.7	4557.4	4379.9	2895.4
55°	979.1	922.5	1083.0	1291.5	1679.1	2324.8	3310.9	3938.1	4150.5	4130.3	2738.8
57.5°	392.3	379.9	434.9	586.1	876.0	1441.1	2407.8	3235.7	3576.0	3783.0	2407.0
60°	172.1	168.2	197.7	238.8	358.1	664.4	1317.1	2012.4	2367.5	2643.5	1656.6
62.5°	124.0	122.5	137.2	151.9	189.2	289.2	553.5	810.9	1010.9	1221.0	741.9
65°	100.0	103.9	114.0	121.7	139.5	160.5	195.4	225.6	276.7	286.8	163.6
67.5°	81.4	84.5	93.8	102.3	105.4	86.8	89.9	79.1	79.1	70.5	56.6
70°	59.7	60.5	71.3	81.4	65.1	34.9	61.2	61.2	55.0	52.7	48.1
72.5°	44.2	45.0	53.5	50.4	25.6	21.7	45.0	49.6	45.0	42.6	38.8
75°	32.6	33.3	27.9	11.6	10.9	14.0	26.4	34.1	32.6	31.8	29.5
77.5°	6.2	4.7	3.9	5.4	7.8	11.6	17.1	20.9	21.7	23.3	21.7
80°	0.8	0.8	2.3	4.7	8.5	12.4	17.8	20.2	20.9	21.7	20.2
82.5°	0.0	0.8	2.3	4.7	8.5	11.6	15.5	17.8	19.4	20.2	19.4
85°	0.0	0.8	1.6	3.9	7.0	8.5	7.8	5.4	4.7	5.4	3.9
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4	488.4
2.5°	494.6	491.5	480.6	469.0	458.9	463.6	458.9	455.0	456.6	455.0	453.5
5°	521.7	507.8	484.5	474.4	465.9	465.1	462.8	462.0	462.8	462.8	455.8
7.5°	547.3	524.8	500.0	489.2	479.1	479.9	474.4	474.4	473.7	469.8	468.2
10°	586.1	555.8	524.0	504.7	492.3	489.9	484.5	479.1	479.1	479.1	471.3
12.5°	628.7	590.7	547.3	524.8	510.1	498.5	489.9	488.4	479.9	478.3	474.4
15°	665.9	617.8	562.8	531.8	513.2	497.7	484.5	476.0	472.1	469.8	466.7
17.5°	702.3	641.1	571.3	531.8	511.6	493.8	479.9	472.1	462.8	464.3	458.1
20°	751.2	665.9	573.7	521.7	496.9	479.9	461.2	457.4	451.9	447.3	448.8
22.5°	798.5	683.7	566.7	509.3	473.7	453.5	444.2	439.5	437.2	433.3	427.9
25°	841.1	703.1	555.8	486.8	448.8	434.1	425.6	424.8	419.4	419.4	409.3
27.5°	884.5	710.1	537.2	460.5	427.1	418.6	414.7	413.2	410.9	405.4	398.5
30°	934.1	712.4	510.1	433.3	407.8	398.5	403.9	407.8	397.7	387.6	390.7
32.5°	975.2	707.0	477.5	407.8	393.8	389.2	400.0	403.9	392.3	381.4	376.0
35°	1024.8	693.8	445.7	387.6	379.9	389.2	398.5	398.5	375.2	362.0	358.9
37.5°	1100.0	679.1	416.3	370.5	365.1	384.5	396.9	388.4	351.9	335.7	331.8
40°	1180.6	669.8	387.6	353.5	357.4	376.8	383.7	357.4	320.2	310.1	307.0
42.5°	1297.7	651.2	362.0	338.8	350.4	365.9	365.9	318.6	304.7	299.2	298.5
45°	1443.4	638.0	339.5	326.4	340.3	344.2	331.8	298.5	288.4	286.8	287.6
47.5°	1514.8	612.4	316.3	311.6	321.7	322.5	289.9	282.2	273.6	271.3	269.8
50°	1503.9	566.7	286.1	292.3	306.2	298.5	264.3	265.9	258.1	257.4	253.5
52.5°	1427.9	494.6	255.8	270.5	286.1	263.6	243.4	241.9	241.9	231.8	227.9
55°	1265.9	398.5	219.4	238.0	256.6	221.7	216.3	214.7	210.9	201.6	199.2
57.5°	1002.3	292.3	165.1	185.3	217.8	188.4	187.6	180.6	170.5	163.6	163.6
60°	596.1	168.2	103.9	113.2	144.2	152.7	169.8	166.7	149.6	138.8	135.7
62.5°	272.1	86.8	65.9	67.4	77.5	99.2	133.3	154.3	130.2	111.6	110.1
65°	91.5	64.3	54.3	51.9	53.5	59.7	79.8	109.3	103.9	86.0	82.9
67.5°	55.8	57.4	51.2	47.3	47.3	46.5	45.7	49.6	61.2	59.7	60.5
70°	48.1	52.7	47.3	42.6	41.1	38.8	32.6	27.1	23.3	27.1	28.7
72.5°	38.8	41.9	40.3	36.4	32.6	29.5	23.3	17.8	13.2	11.6	11.6
75°	28.7	31.0	32.6	27.9	24.8	20.9	17.1	11.6	7.0	4.7	4.7
77.5°	20.9	23.3	24.0	21.7	18.6	14.7	10.9	7.8	3.9	1.6	1.6
80°	17.8	20.9	23.3	21.7	19.4	14.0	10.1	5.4	3.1	0.8	0.8
82.5°	17.1	20.9	23.3	20.9	18.6	13.2	10.1	6.2	2.3	0.8	0.8
85°	3.9	5.4	7.0	8.5	10.1	10.1	7.8	4.7	2.3	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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)