

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: P450733

Luminaire Tested: **GALN-SA1C-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5223 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

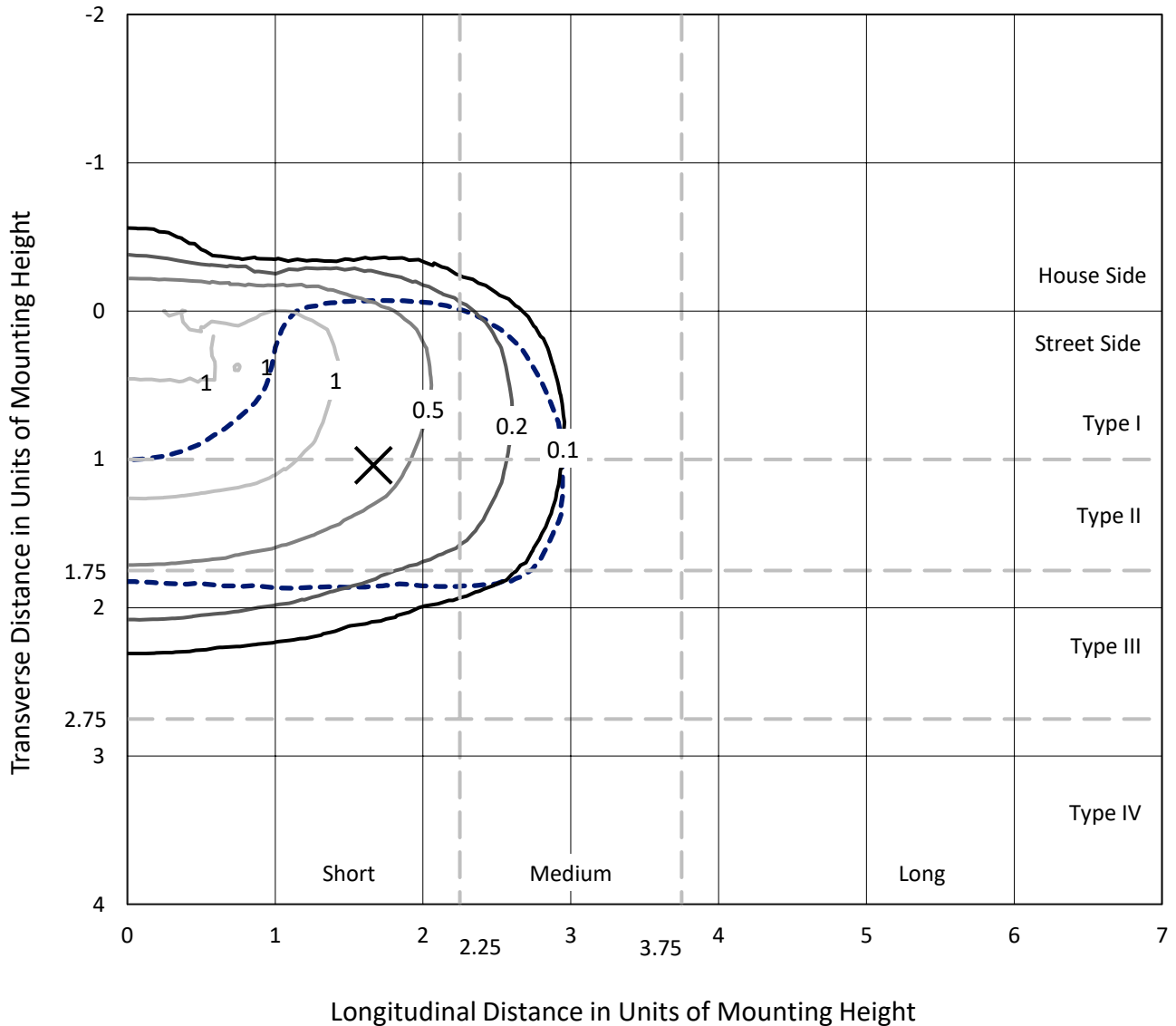
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

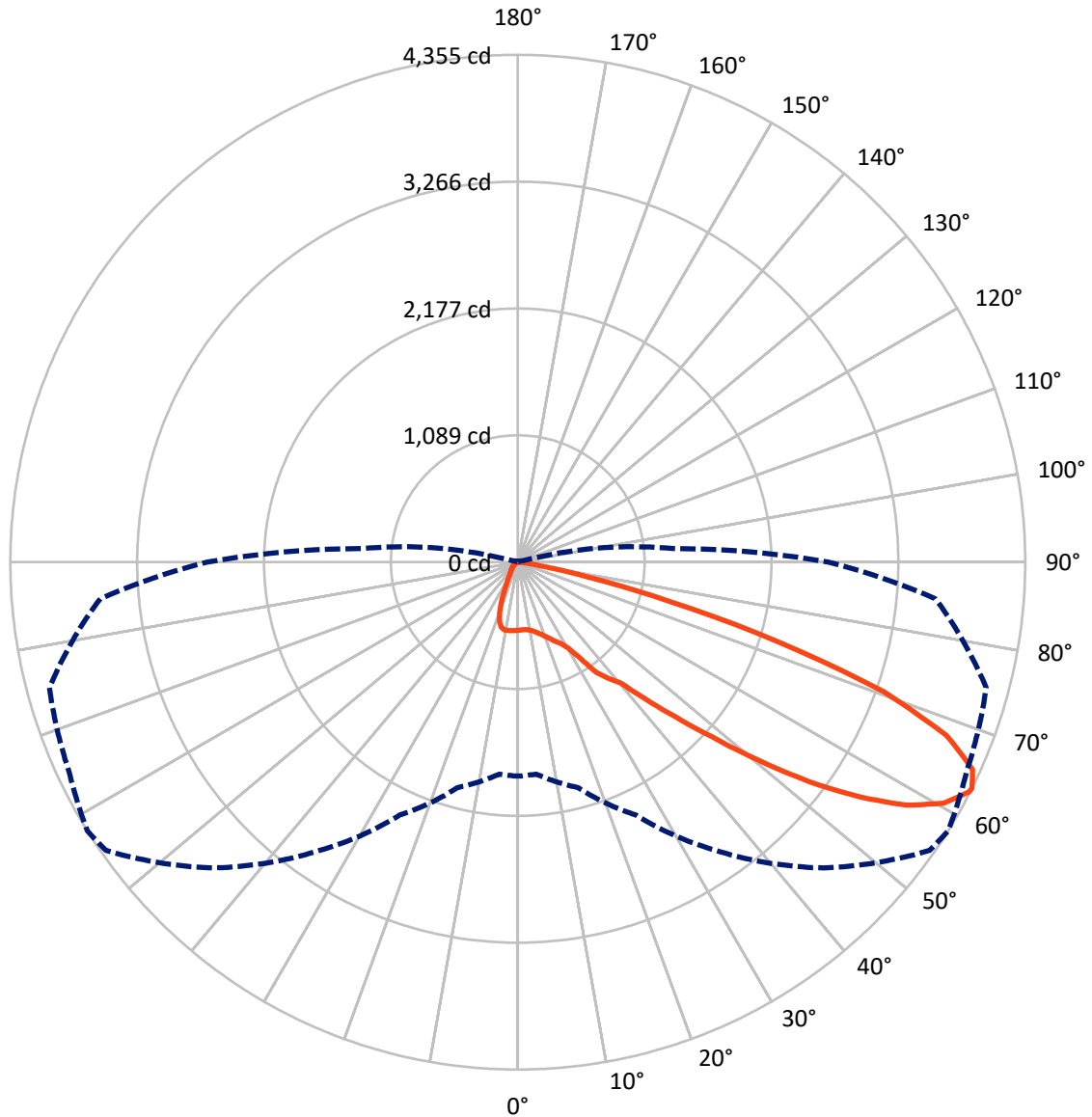
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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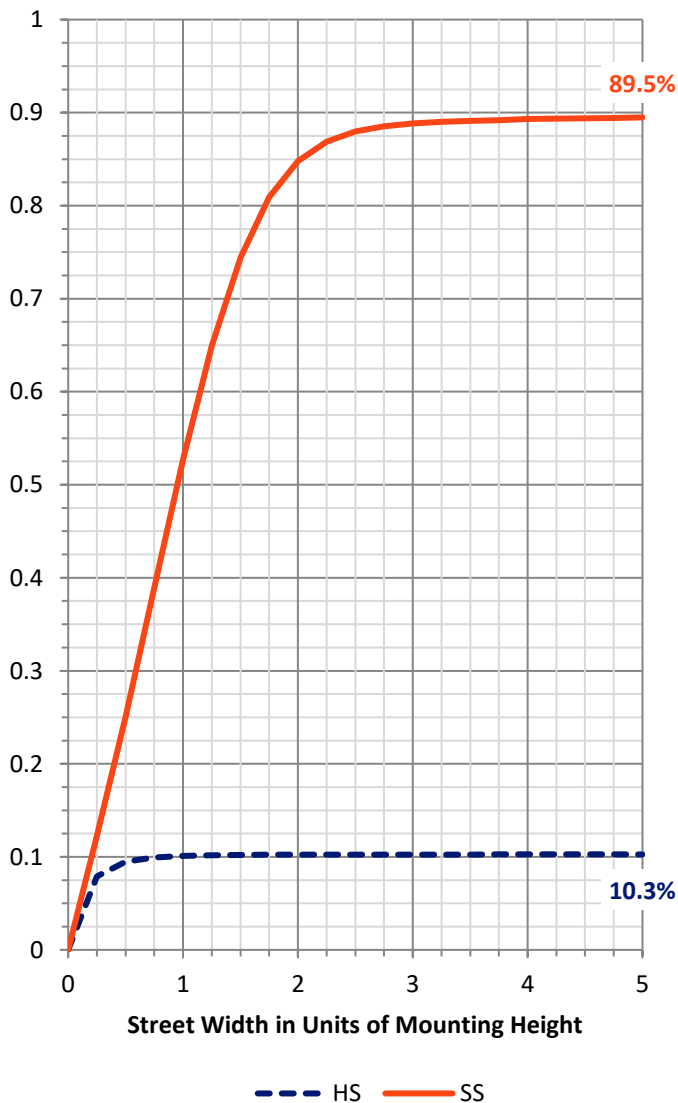
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	540.8	0.0	540.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	4682.2	0.0	4682.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5223.0	0.0	5223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	1.0
10°-20°	149.1	2.9
20°-30°	258.8	5.0
30°-40°	475.5	9.1
40°-50°	895.1	17.1
50°-60°	1531.0	29.3
60°-70°	1465.9	28.1
70°-80°	373.8	7.2
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°	5223.0	100.0
0°-180°	5223.0	100.0

**Coefficient of Utilization**



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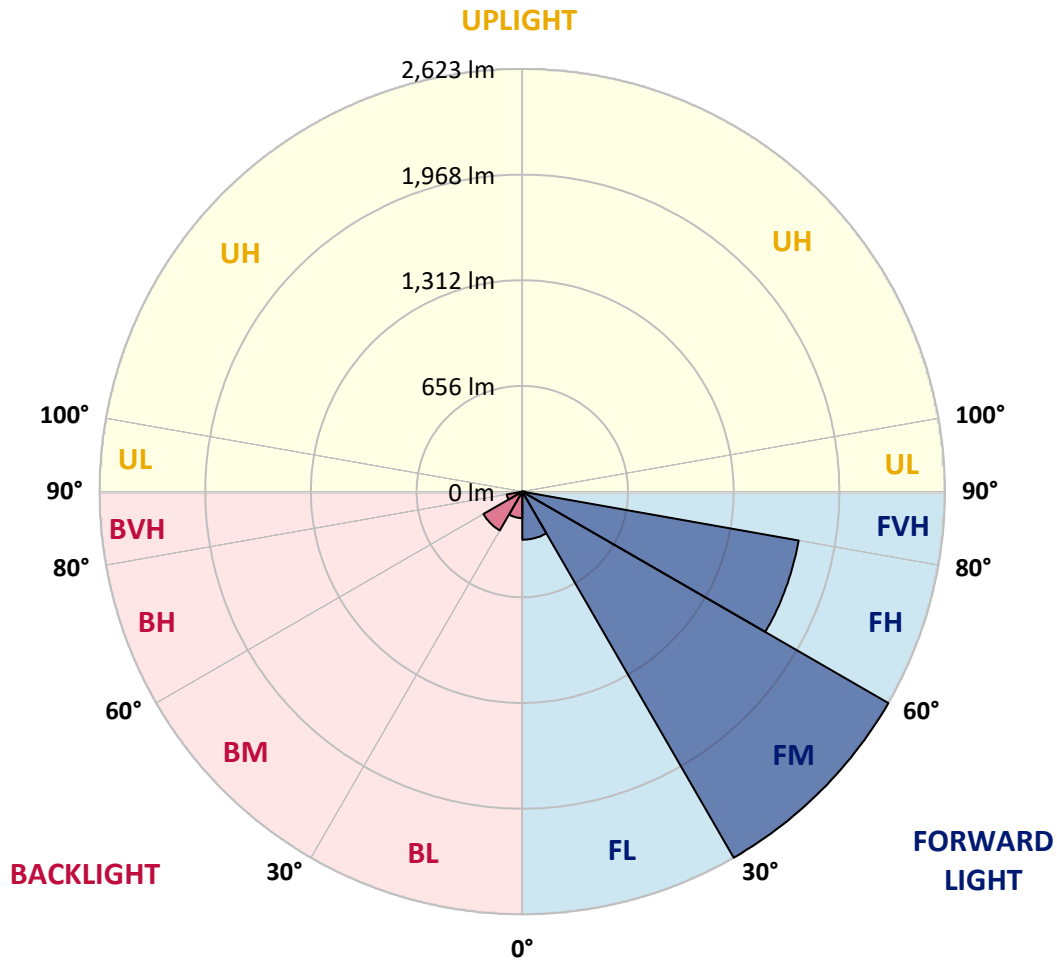
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.6	5.7			
FM (30°-60°)	2623.4	50.2			
FH (60°-80°)	1741.8	33.3			G1/1800
FVH (80°-90°)	18.4	0.4			G1/100
BL (0°-30°)	164.0	3.1	B1/500		
BM (30°-60°)	278.2	5.3	B1/1000		
BH (60°-80°)	97.9	1.9	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7
2.5°	570.2	572.2	574.1	574.9	577.7	580.4	582.4	582.0	585.1	586.7	586.7
5°	547.4	547.4	552.5	557.2	565.1	572.9	580.4	582.0	587.9	593.4	595.4
7.5°	528.1	529.3	533.2	541.9	552.5	566.3	581.2	584.7	595.0	607.1	612.3
10°	519.1	519.9	525.0	534.0	547.4	566.3	587.1	593.8	609.5	628.8	635.9
12.5°	517.1	518.3	523.4	533.6	549.0	571.8	600.1	607.1	630.0	654.7	665.3
15°	520.6	521.4	526.5	537.5	554.5	581.6	617.4	627.2	654.3	683.0	696.8
17.5°	533.2	532.4	536.0	545.0	563.9	593.8	638.2	650.0	681.9	721.2	730.2
20°	586.7	581.6	578.4	570.6	578.1	611.1	663.4	680.7	720.0	760.1	766.4
22.5°	701.9	690.5	668.1	637.4	613.8	634.7	693.7	713.7	764.4	803.8	803.8
25°	848.6	834.0	811.6	744.8	687.0	673.6	727.9	753.0	812.8	852.5	839.5
27.5°	1032.2	1020.8	977.2	899.3	810.8	741.6	767.6	790.8	855.7	903.6	876.5
30°	1181.7	1176.2	1140.4	1070.8	973.2	872.2	841.5	856.9	912.7	968.1	940.2
32.5°	1307.9	1307.9	1271.3	1206.4	1115.2	1025.5	967.0	978.0	1031.4	1095.5	1043.6
35°	1446.7	1442.0	1412.5	1350.7	1248.5	1169.5	1145.5	1160.4	1208.8	1256.4	1128.6
37.5°	1592.6	1591.0	1560.3	1500.6	1417.2	1317.7	1261.5	1265.4	1290.2	1319.3	1228.1
40°	1751.1	1753.4	1713.3	1676.3	1597.7	1495.9	1388.1	1363.3	1386.5	1468.7	1411.7
42.5°	1938.2	1932.7	1915.4	1865.1	1801.8	1740.8	1611.5	1602.4	1622.9	1710.9	1649.2
45°	2155.7	2163.6	2133.7	2105.8	2063.3	2012.6	1904.4	1888.7	1911.1	2047.9	1960.3
47.5°	2373.5	2366.1	2385.3	2380.2	2403.0	2365.3	2269.7	2237.5	2291.4	2421.1	2292.1
50°	2539.5	2547.7	2587.9	2646.4	2744.4	2765.6	2674.0	2663.0	2686.9	2770.3	2589.0
52.5°	2647.2	2674.8	2737.7	2888.3	3064.8	3202.1	3132.5	3126.6	3116.8	3139.2	2872.9
55°	2717.6	2745.5	2827.7	3049.5	3353.5	3576.4	3580.0	3554.8	3489.9	3473.8	3138.4
57.5°	2674.4	2679.9	2797.1	3093.6	3513.5	3843.4	3959.1	3933.9	3814.0	3753.0	3372.7
60°	2403.8	2415.2	2578.4	2926.8	3443.9	3930.7	4210.3	4198.9	4067.6	3998.8	3555.2
62.5°	1924.5	1957.5	2125.4	2513.9	3120.3	3783.7	4312.2	4344.4	4242.2	4147.4	3612.6
63°	1836.4	1825.8	2003.1	2393.6	3034.6	3710.9	4313.7	4354.6	4250.0	4161.6	3596.9
65°	1359.4	1391.3	1506.5	1887.5	2525.3	3372.4	4216.6	4289.0	4220.9	4099.0	3422.7
67.5°	763.3	761.7	889.1	1235.1	1767.6	2645.3	3812.8	3965.7	3951.6	3678.3	2837.2
70°	373.6	379.5	431.8	640.2	1025.2	1825.0	3168.3	3333.4	3338.5	2889.1	1961.8
72.5°	169.1	171.8	209.2	311.8	526.9	971.7	2183.2	2340.9	2311.8	1841.1	1083.4
75°	89.3	95.2	115.2	156.9	254.0	400.7	1187.6	1340.1	1279.2	841.1	398.7
77.5°	66.1	68.0	78.3	99.9	136.1	156.1	512.4	609.5	571.0	304.4	132.1
80°	48.4	49.9	58.2	70.8	85.7	79.4	193.1	221.4	198.6	103.4	40.5
82.5°	29.5	29.9	42.5	52.7	53.9	44.4	63.7	68.4	71.6	58.2	22.0
85°	10.6	13.4	28.7	38.1	31.9	22.4	26.7	29.5	32.2	37.0	13.0
87.5°	1.2	1.6	13.8	18.5	9.0	8.3	9.8	11.0	11.8	13.8	6.3
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°	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7	584.7
2.5°	588.3	589.8	588.7	586.7	586.3	585.1	582.8	582.8	582.8	583.6	582.8
5°	596.9	598.1	595.4	591.4	587.1	581.6	575.7	572.2	571.8	571.0	569.0
7.5°	613.4	615.0	608.7	599.3	587.5	574.1	561.5	549.7	544.2	539.9	539.9
10°	637.4	639.0	626.4	609.5	585.9	558.8	528.9	501.8	480.5	470.7	468.3
12.5°	666.1	666.9	646.1	616.6	577.7	525.4	461.7	402.3	361.0	342.1	340.1
15°	697.6	692.1	664.6	619.3	554.1	456.5	346.4	273.7	230.8	218.2	223.0
17.5°	729.4	719.2	678.7	615.0	501.0	346.4	232.8	186.8	173.4	169.9	169.9
20°	759.3	745.2	688.9	596.1	409.0	238.7	172.6	161.6	159.3	156.9	157.3
22.5°	789.2	767.6	698.0	554.1	304.8	170.7	154.5	151.0	147.9	144.7	144.3
25°	818.3	788.4	701.5	476.2	207.6	146.7	141.2	136.5	130.2	126.6	125.8
27.5°	848.6	813.6	699.2	377.9	151.4	131.3	125.8	119.1	111.7	105.4	105.4
30°	906.8	861.6	690.9	271.7	127.4	115.6	108.5	97.9	89.7	83.4	83.0
32.5°	986.2	924.1	662.6	191.1	113.3	101.8	91.2	79.4	70.8	66.1	66.1
35°	1057.0	987.0	609.5	140.8	101.8	88.5	75.5	64.1	57.4	54.3	53.1
37.5°	1164.8	1079.0	536.4	114.4	90.8	76.7	63.3	52.7	47.2	44.8	44.8
40°	1326.4	1191.5	446.7	100.3	80.2	65.3	52.7	44.4	40.1	37.4	37.4
42.5°	1526.9	1329.1	355.9	90.0	70.4	56.2	44.0	37.8	33.8	31.9	31.5
45°	1779.4	1474.2	274.1	80.6	62.5	48.0	37.4	31.9	27.9	26.7	27.1
47.5°	2042.8	1602.0	212.3	72.4	54.3	40.5	31.9	27.5	24.8	23.2	23.2
50°	2267.8	1690.1	161.2	62.9	48.0	34.2	27.9	24.8	22.4	21.6	21.2
52.5°	2455.7	1715.7	123.5	54.7	42.1	29.5	24.8	22.4	20.4	19.3	19.3
55°	2615.8	1693.3	96.7	46.0	35.4	25.6	22.0	20.1	17.7	16.5	16.1
57.5°	2709.4	1621.3	73.9	38.1	28.7	21.2	19.3	16.9	14.2	12.2	12.2
60°	2756.6	1516.7	56.6	31.5	22.0	16.9	15.7	12.6	9.8	8.3	7.9
62.5°	2699.9	1377.9	42.9	24.8	16.5	12.6	10.6	9.0	6.3	4.7	4.7
63°	2664.9	1337.8	41.3	23.6	15.3	11.8	9.8	8.3	5.5	4.3	3.9
65°	2429.4	1162.8	33.8	18.9	12.2	8.3	6.7	5.9	3.9	2.0	1.6
67.5°	1929.2	889.5	26.7	14.2	8.7	5.9	3.9	3.5	1.2	0.0	0.0
70°	1304.3	574.5	20.8	10.2	5.9	3.5	2.0	1.6	0.4	0.0	0.0
72.5°	680.3	294.5	16.1	7.5	3.5	2.4	1.2	0.4	0.0	0.0	0.0
75°	240.7	100.3	11.8	4.7	2.4	1.2	0.4	0.0	0.0	0.0	0.0
77.5°	72.7	37.4	7.5	3.5	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	25.6	13.8	4.3	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	6.7	2.8	2.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.1	4.3	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	3.1	2.4	2.0	1.6	0.8	0.4	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)