

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: P453610

Luminaire Tested: **GALN-SA4C-827-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14790 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

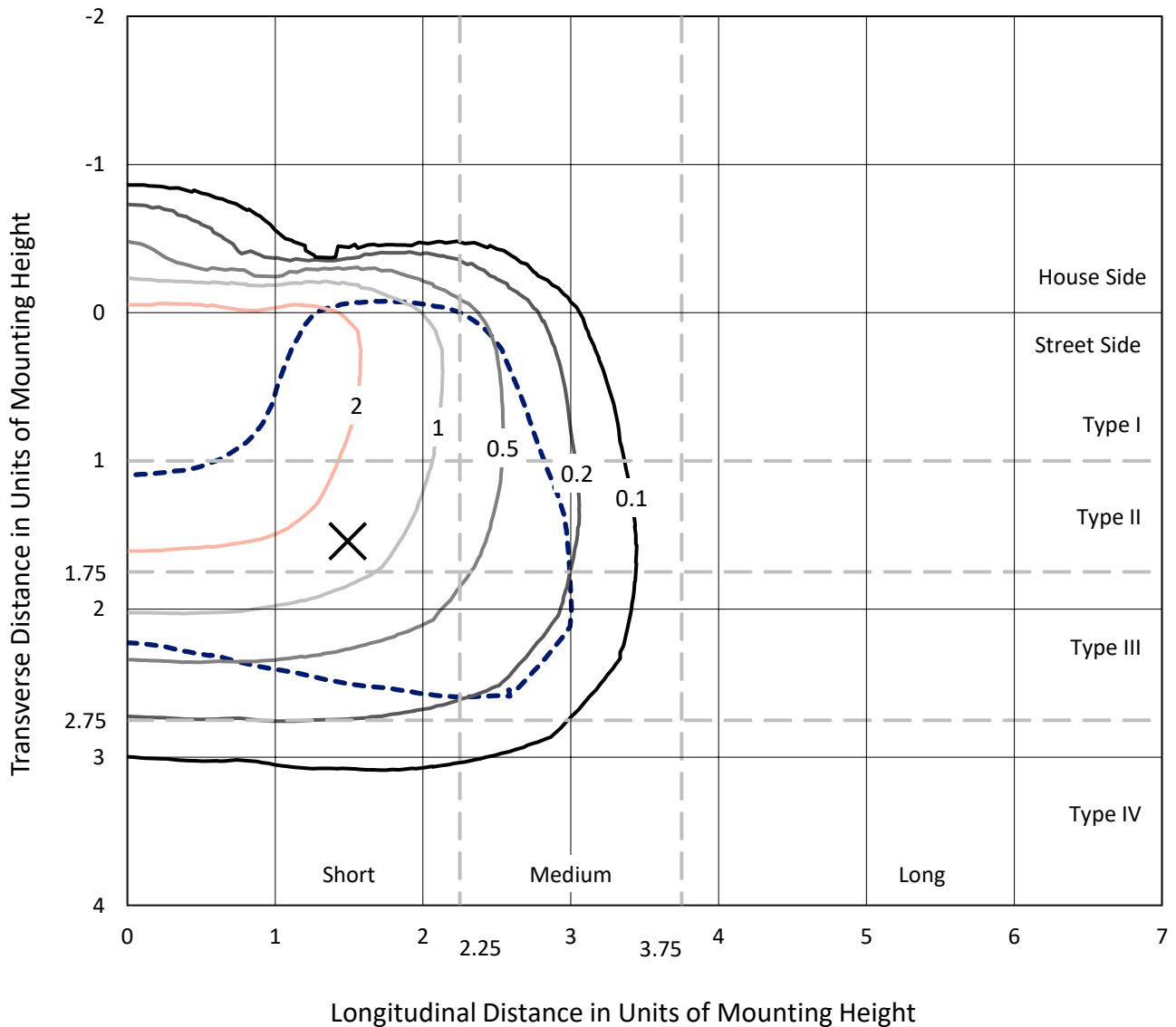
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

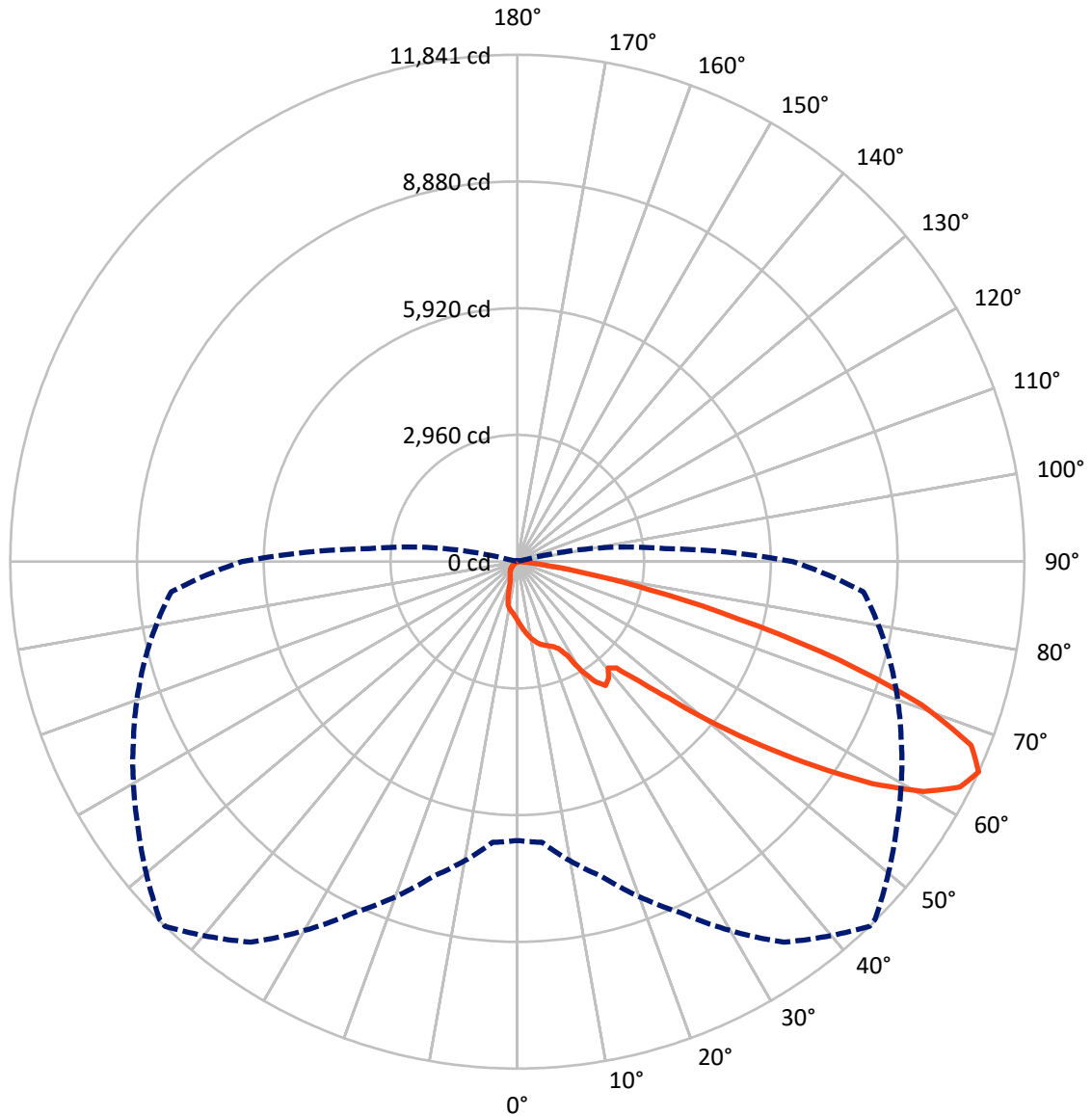
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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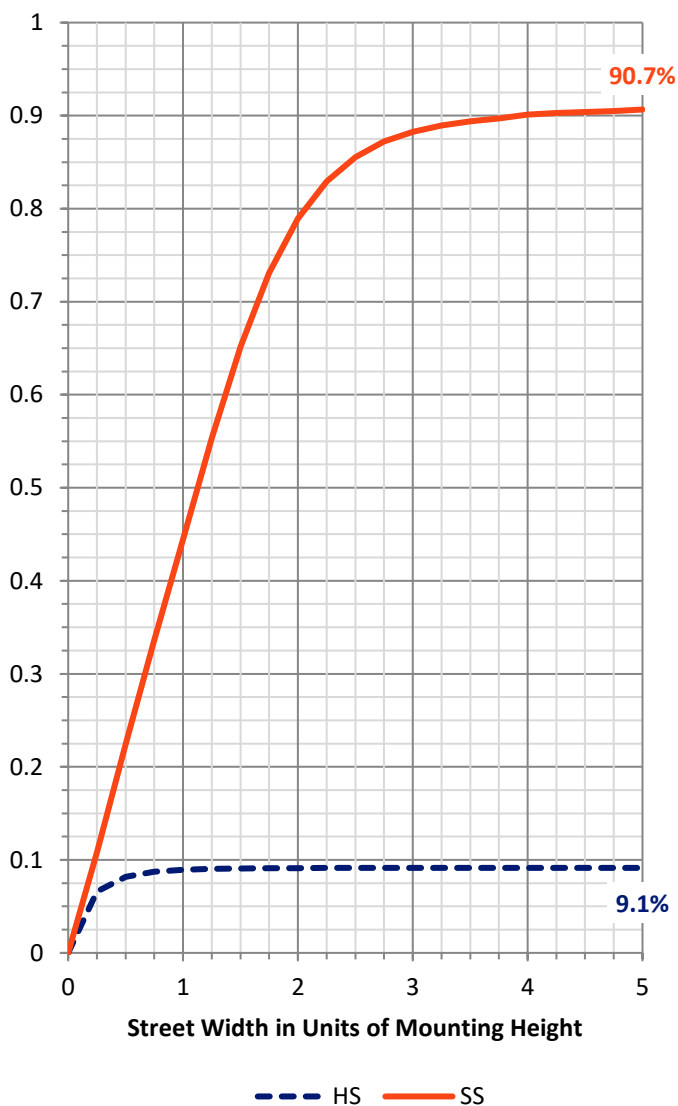
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1362.7	0.0	1362.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	13427.3	0.0	13427.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	14790.0	0.0	14790.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	0.9
10°-20°	412.0	2.8
20°-30°	698.7	4.7
30°-40°	1161.7	7.9
40°-50°	2028.3	13.7
50°-60°	3962.6	26.8
60°-70°	4597.6	31.1
70°-80°	1674.2	11.3
80°-90°	118.0	0.8
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°	14790.0	100.0
0°-180°	14790.0	100.0

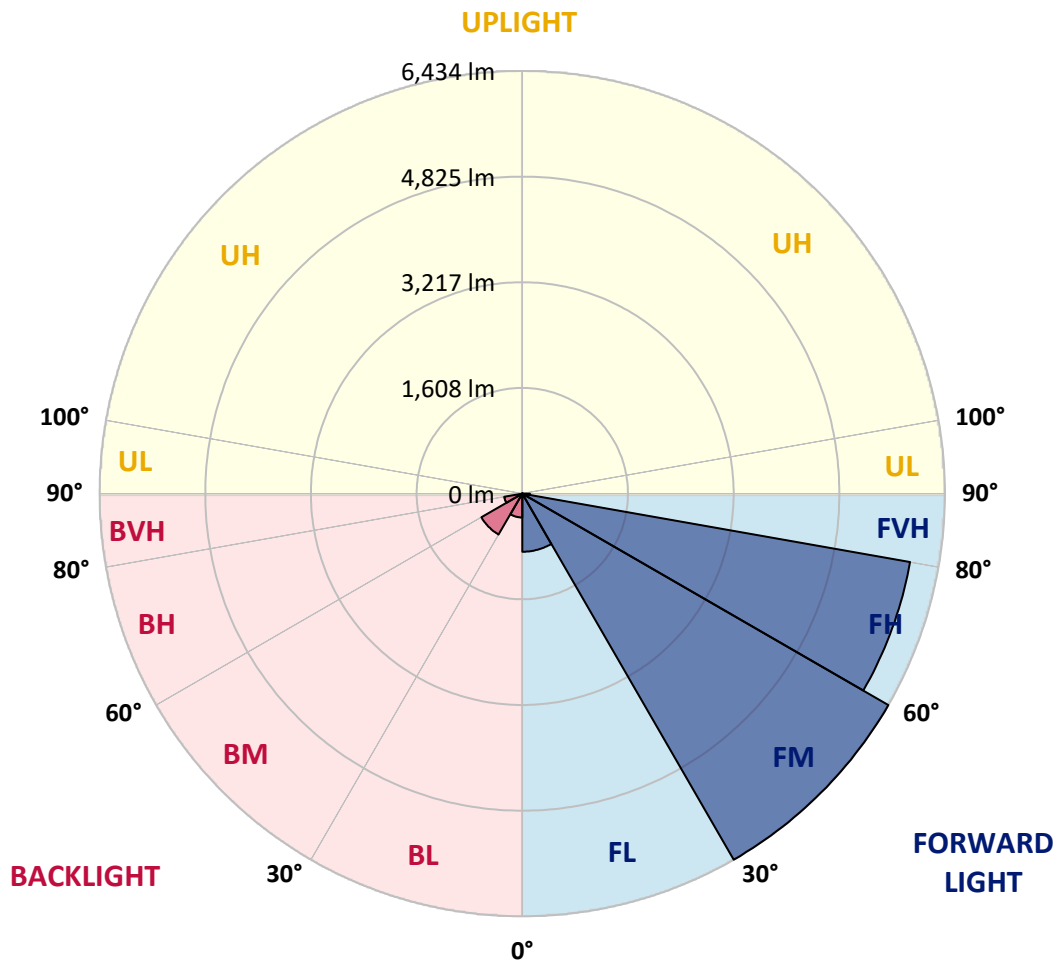


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.6	6.0			
FM (30°-60°)	6433.7	43.5			
FH (60°-80°)	5992.7	40.5			G3/7500
FVH (80°-90°)	116.4	0.8			G2/225
BL (0°-30°)	363.1	2.5	B1/500		
BM (30°-60°)	719.0	4.9	B1/1000		
BH (60°-80°)	279.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1549.4	1542.6	1539.2	1521.2	1507.6	1490.7	1490.7	1469.2	1444.3	1417.2	1392.3
5°	1722.3	1711.0	1696.3	1680.5	1648.9	1603.7	1603.7	1558.5	1506.5	1460.1	1409.3
7.5°	1888.5	1878.3	1853.4	1822.9	1770.9	1723.5	1720.1	1654.5	1592.4	1522.3	1450.0
10°	2034.2	2026.3	2004.9	1946.1	1891.9	1829.7	1828.6	1755.1	1682.8	1596.9	1507.6
12.5°	2136.0	2137.1	2108.8	2052.3	1982.3	1923.5	1919.0	1846.6	1770.9	1678.3	1568.6
15°	2208.3	2208.3	2178.9	2115.6	2052.3	2000.3	1995.8	1932.5	1854.6	1754.0	1635.3
17.5°	2228.6	2235.4	2203.8	2147.3	2096.4	2051.2	2050.1	1997.0	1934.8	1837.6	1703.1
20°	2220.7	2227.5	2202.6	2158.6	2123.5	2097.5	2094.1	2072.7	2015.0	1923.5	1775.4
22.5°	2203.8	2210.5	2192.5	2166.5	2149.5	2157.4	2151.8	2169.9	2139.4	2028.6	1861.3
25°	2207.2	2213.9	2200.4	2185.7	2200.4	2249.0	2263.7	2341.6	2314.5	2162.0	1954.0
27.5°	2313.4	2327.0	2307.7	2314.5	2366.5	2479.5	2507.8	2642.3	2522.5	2331.5	2098.7
30°	2549.6	2540.5	2504.4	2537.2	2718.0	2957.6	2949.7	2928.2	2740.6	2527.0	2270.4
32.5°	2764.3	2756.4	2754.1	2895.4	3223.2	3339.6	3333.9	3126.0	2936.1	2750.8	2440.0
35°	2851.3	2820.8	2814.0	3156.5	3704.6	3550.9	3515.9	3207.3	3173.4	2994.9	2612.9
37.5°	3113.5	3092.1	2987.0	3199.4	3512.5	3461.6	3434.5	3347.5	3426.6	3210.7	2808.4
40°	3653.7	3593.8	3498.9	3291.0	3240.1	3261.6	3288.7	3527.2	3726.1	3505.7	3069.5
42.5°	4325.0	4311.5	4135.2	3747.5	3366.7	3396.1	3431.1	3902.4	4156.6	3949.8	3495.5
45°	5130.8	5150.0	4895.8	4438.1	3938.5	3963.4	4014.2	4456.1	4739.8	4640.3	4165.7
47.5°	5863.2	5848.5	5762.6	5286.8	4825.7	4770.3	4852.8	5167.0	5546.7	5562.5	4997.5
50°	6600.0	6678.0	6550.3	6363.8	6021.4	5905.0	5874.5	6028.2	6606.8	6531.1	5996.5
52.5°	7658.9	7699.6	7460.0	7412.6	7490.6	7113.1	7082.6	7119.9	7637.5	7377.5	6744.7
55°	8324.6	8300.9	8211.6	8582.3	8890.8	8419.5	8381.1	8230.8	8493.0	7975.4	7464.6
57.5°	8534.8	8568.7	8776.7	9446.8	10176.9	9776.8	9706.8	9279.6	9110.0	8532.5	8126.8
60°	8441.0	8503.2	8951.8	9948.6	10961.2	10901.3	10841.4	10123.8	9553.1	8998.2	8591.3
62.5°	7773.1	7860.1	8577.7	9859.3	11226.8	11600.9	11526.3	10650.4	9848.0	9224.2	8672.7
65°	6514.1	6578.5	7609.2	9049.0	10849.3	11840.5	11813.3	10815.4	9894.4	9017.4	8115.5
67.5°	4643.7	4863.0	5817.9	7626.2	9732.7	11431.3	11477.7	10617.6	9459.3	8123.4	6720.9
70°	2919.1	3068.3	3753.2	5459.7	7802.5	10028.8	10181.4	9712.4	8209.3	6332.2	4499.1
72.5°	1392.3	1503.1	1991.3	3456.0	5507.2	7890.6	8011.5	7973.1	6348.0	3989.4	2321.3
75°	620.4	662.3	950.4	1764.1	3555.4	5303.7	5616.8	5668.8	3966.8	1951.7	903.0
77.5°	316.4	317.6	445.3	854.4	1775.4	3164.4	3226.5	3408.5	2150.7	860.0	314.2
80°	168.4	179.7	236.2	403.5	921.1	1558.5	1550.5	1704.2	953.8	421.5	105.1
82.5°	75.7	83.6	133.4	211.3	449.8	591.1	637.4	697.3	409.1	269.0	46.3
85°	22.6	27.1	65.5	106.2	162.7	170.7	191.0	246.4	231.7	191.0	23.7
87.5°	3.4	3.4	27.1	29.4	23.7	30.5	31.6	35.0	74.6	70.1	12.4
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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1378.8	1370.9	1342.6	1318.9	1298.5	1286.1	1271.4	1262.4	1257.8	1254.5	1255.6
5°	1384.4	1365.2	1316.6	1278.2	1248.8	1217.2	1195.7	1183.3	1177.6	1168.6	1168.6
7.5°	1416.1	1385.5	1317.7	1259.0	1208.1	1165.2	1124.5	1109.8	1099.6	1097.4	1095.1
10°	1461.3	1422.8	1330.2	1248.8	1176.5	1117.7	1060.1	1009.2	969.7	945.9	942.5
12.5°	1517.8	1462.4	1349.4	1242.0	1149.4	1045.4	892.8	790.0	721.0	699.6	702.9
15°	1569.8	1509.9	1368.6	1236.4	1099.6	866.8	693.9	576.4	541.3	537.9	539.1
17.5°	1631.9	1560.7	1391.2	1228.5	962.9	662.3	515.3	483.7	490.5	501.8	500.7
20°	1696.3	1615.0	1418.3	1181.0	768.5	498.4	455.4	458.8	469.0	479.2	481.4
22.5°	1765.3	1677.1	1450.0	1066.9	586.5	434.0	431.7	436.2	446.4	457.7	460.0
25°	1860.2	1755.1	1473.7	917.7	444.1	401.2	405.7	413.6	422.7	435.1	437.4
27.5°	1982.3	1860.2	1486.1	723.3	384.2	371.8	372.9	384.2	395.5	406.8	406.8
30°	2140.5	1985.7	1461.3	547.0	354.9	343.6	339.0	345.8	360.5	371.8	372.9
32.5°	2281.7	2104.3	1395.7	418.2	333.4	317.6	306.3	307.4	313.0	319.8	321.0
35°	2423.0	2219.6	1283.8	351.5	310.8	292.7	275.8	266.7	262.2	258.8	262.2
37.5°	2603.8	2363.1	1134.7	319.8	291.6	269.0	245.2	226.0	210.2	200.0	202.3
40°	2836.6	2562.0	958.4	299.5	273.5	246.4	214.7	189.9	162.7	153.7	149.2
42.5°	3220.9	2863.8	773.0	282.5	255.4	222.6	183.1	149.2	124.3	115.3	117.5
45°	3827.8	3244.6	595.6	264.5	237.3	196.6	153.7	117.5	97.2	92.7	94.9
47.5°	4632.4	3737.4	458.8	244.1	214.7	168.4	120.9	92.7	80.2	79.1	78.0
50°	5389.6	4196.2	383.1	221.5	187.6	140.1	99.5	78.0	70.1	68.9	68.9
52.5°	6074.5	4525.1	311.9	195.5	158.2	115.3	83.6	68.9	62.2	58.8	58.8
55°	6683.6	4739.8	253.2	163.9	124.3	91.5	72.3	62.2	54.2	49.7	48.6
57.5°	7143.6	4765.8	189.9	131.1	92.7	71.2	62.2	54.2	45.2	39.6	37.3
60°	7340.2	4540.9	140.1	99.5	68.9	56.5	49.7	44.1	33.9	28.3	27.1
62.5°	7142.5	4103.5	104.0	75.7	53.1	41.8	35.0	32.8	23.7	17.0	15.8
65°	6433.9	3471.8	82.5	57.6	39.6	30.5	22.6	21.5	14.7	7.9	6.8
67.5°	5154.6	2719.1	65.5	42.9	28.3	20.3	14.7	13.6	7.9	2.3	2.3
70°	3352.0	1738.2	53.1	31.6	18.1	13.6	9.0	6.8	4.5	1.1	0.0
72.5°	1657.9	812.6	42.9	24.9	12.4	6.8	3.4	2.3	3.4	0.0	0.0
75°	643.0	289.3	31.6	17.0	6.8	3.4	2.3	0.0	1.1	0.0	0.0
77.5°	213.6	96.1	19.2	9.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0
80°	79.1	37.3	10.2	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	31.6	14.7	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	9.0	4.5	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	6.8	4.5	3.4	2.3	1.1	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)