

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: P318847

Luminaire Tested: **GLEON-SA3C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15970 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

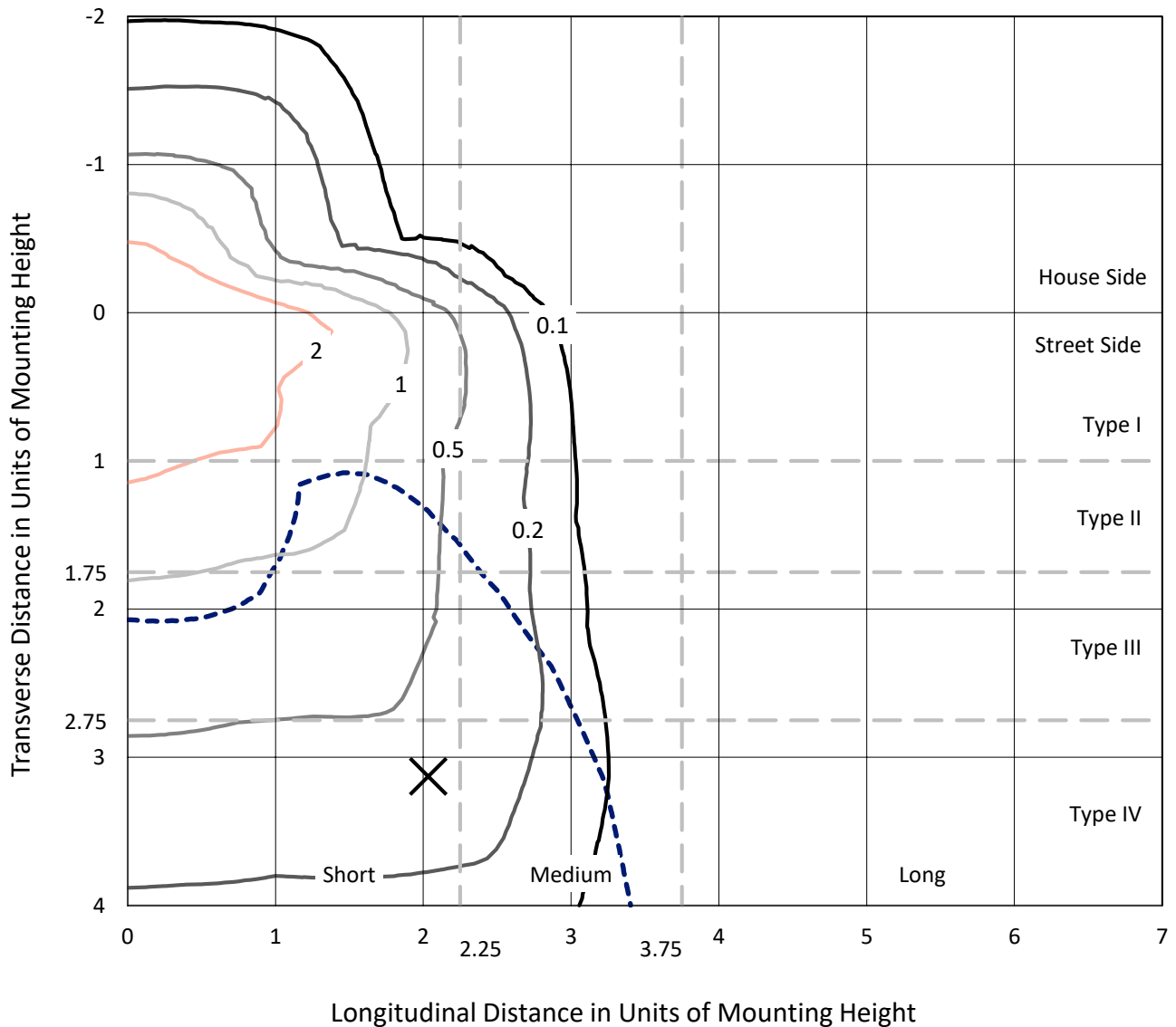
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

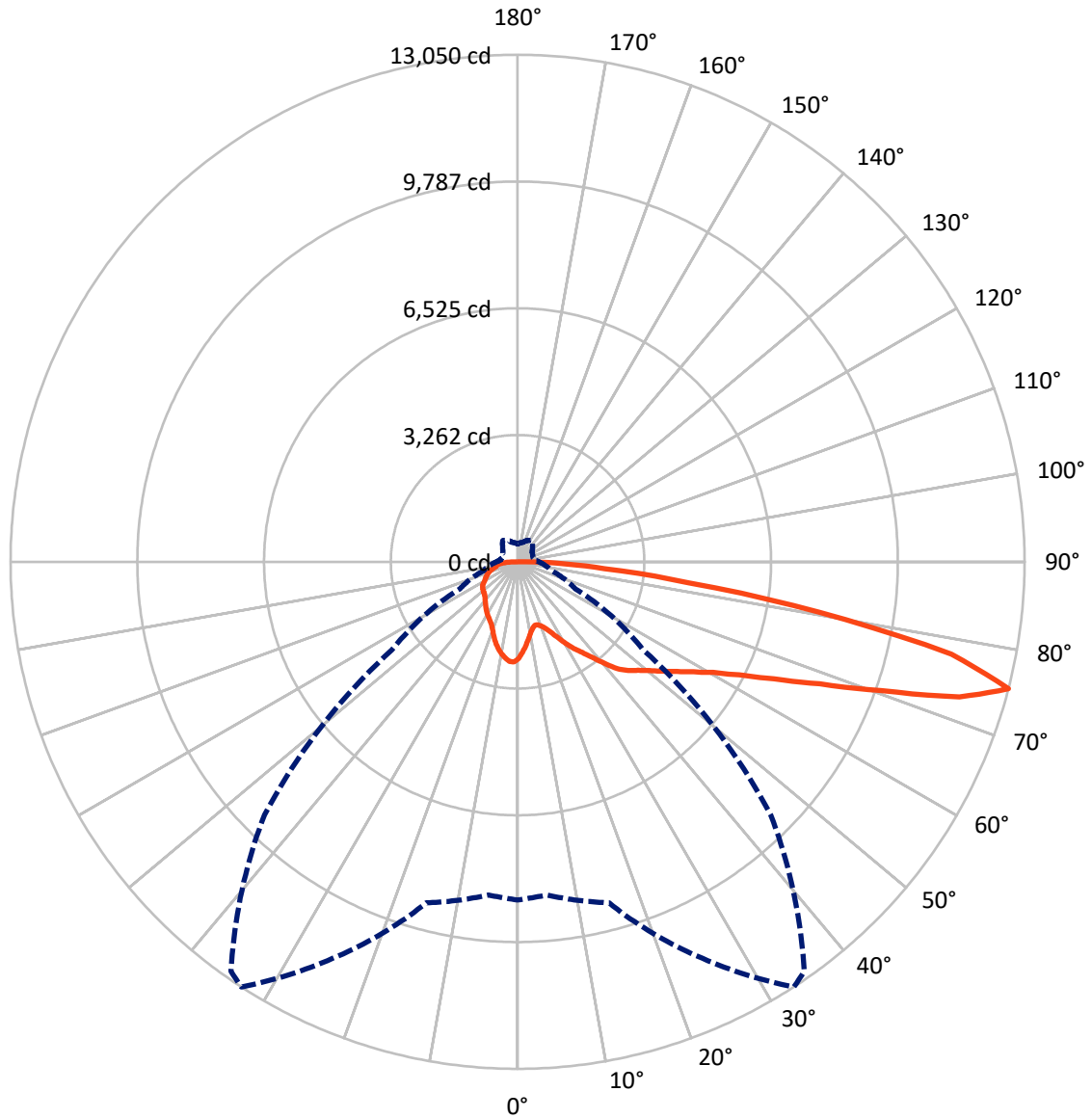
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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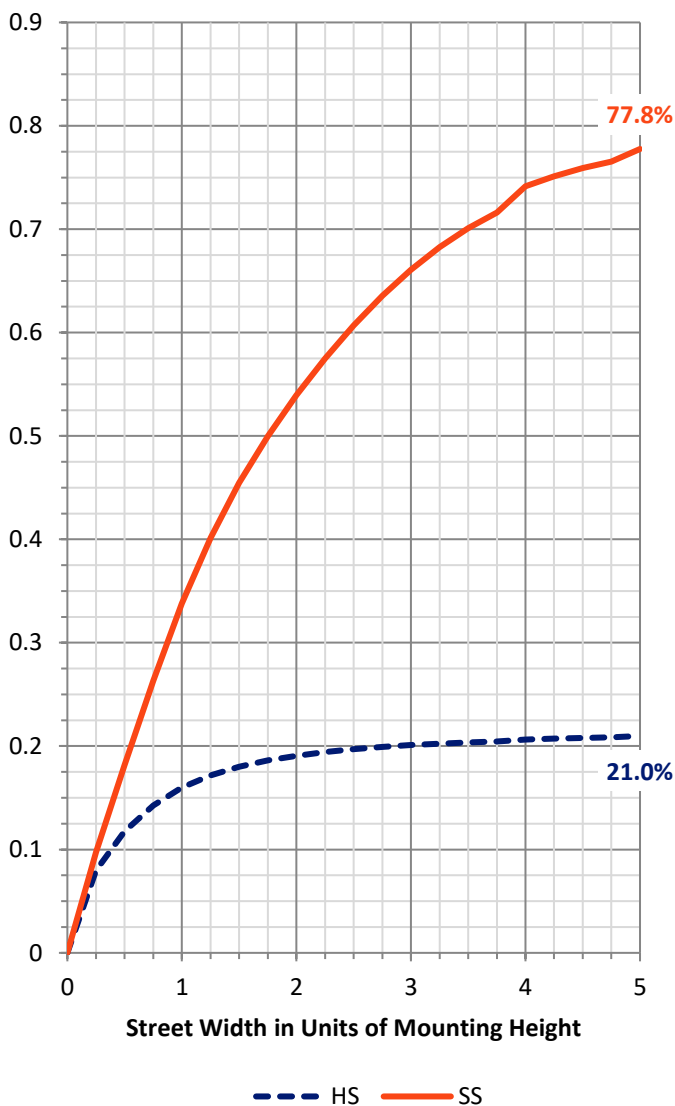
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.2	0.0	3429.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12540.8	0.0	12540.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	15970.0	0.0	15970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	1.4
10°-20°	611.4	3.8
20°-30°	998.6	6.3
30°-40°	1487.1	9.3
40°-50°	2132.9	13.4
50°-60°	2928.1	18.3
60°-70°	3665.8	23.0
70°-80°	3316.3	20.8
80°-90°	604.1	3.8
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°	15970.0	100.0
0°-180°	15970.0	100.0

Coefficient of Utilization

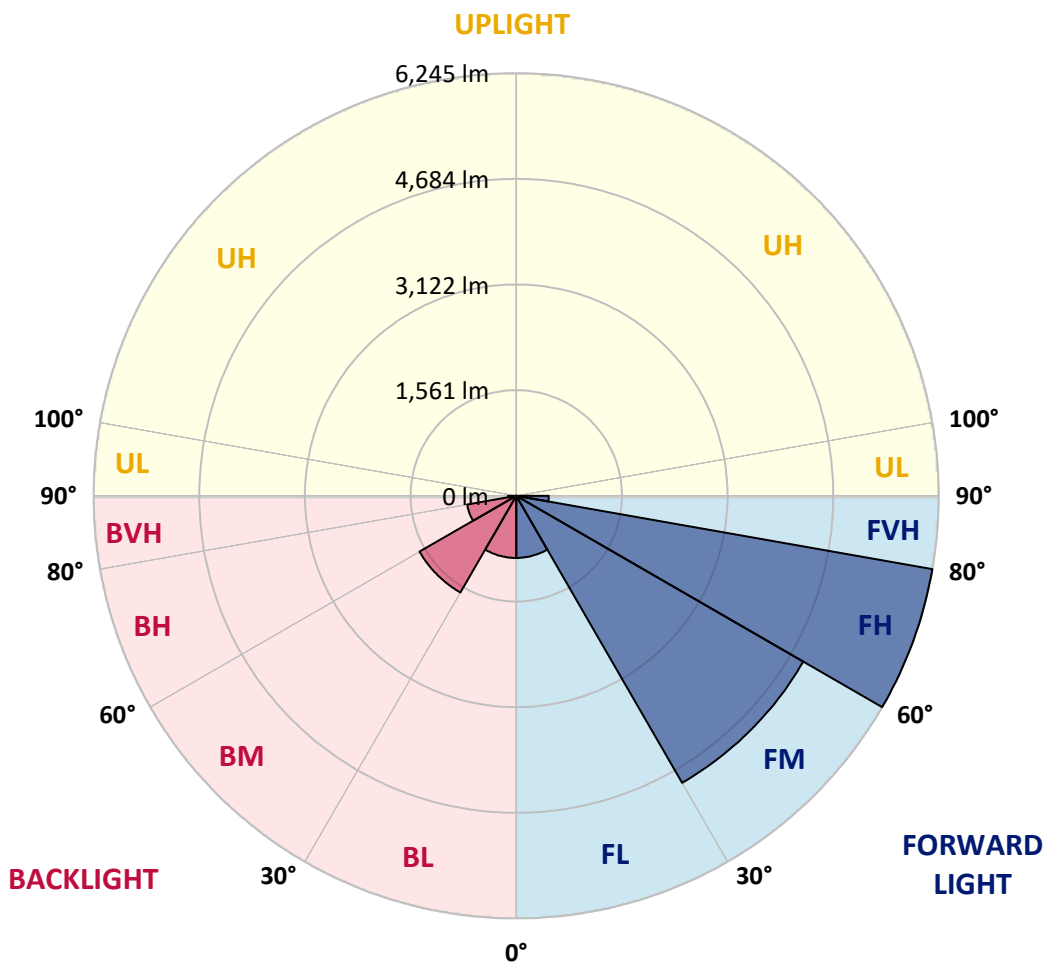


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.2	5.7			
FM (30°-60°)	4897.7	30.7			
FH (60°-80°)	6244.8	39.1			G3/7500
FVH (80°-90°)	481.1	3.0			G3/500
BL (0°-30°)	918.5	5.8	B2/1000		
BM (30°-60°)	1650.4	10.3	B2/2500		
BH (60°-80°)	737.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	123.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2
2.5°	2318.0	2309.2	2325.7	2327.9	2342.3	2347.8	2367.7	2398.6	2423.9	2453.2	2479.7
5°	2107.8	2101.8	2124.9	2141.5	2172.9	2186.2	2233.1	2298.7	2357.2	2423.4	2483.5
7.5°	1908.1	1904.8	1930.8	1968.3	2004.7	2022.9	2104.0	2199.4	2297.1	2404.1	2496.2
10°	1739.9	1738.8	1763.6	1800.6	1854.1	1874.5	1979.3	2105.1	2241.9	2389.2	2517.7
12.5°	1645.6	1649.4	1661.0	1691.9	1741.5	1762.0	1878.4	2026.2	2195.6	2384.2	2549.2
15°	1668.7	1674.8	1654.9	1653.8	1689.1	1705.1	1814.4	1969.9	2162.5	2392.5	2594.9
17.5°	1767.5	1768.6	1716.2	1683.1	1704.6	1712.9	1794.5	1937.9	2143.1	2411.2	2652.3
20°	1906.5	1903.7	1811.1	1755.9	1767.5	1769.7	1822.6	1938.5	2141.5	2443.8	2726.8
22.5°	2090.7	2070.3	1945.7	1870.6	1867.9	1864.6	1894.9	1979.3	2165.8	2496.8	2815.6
25°	2331.3	2312.0	2140.4	2037.8	2015.7	2007.4	2011.9	2066.5	2213.8	2553.6	2914.9
27.5°	2598.8	2565.2	2399.7	2254.6	2208.8	2197.2	2170.7	2189.5	2266.2	2608.2	3033.0
30°	2822.8	2804.6	2660.0	2487.9	2433.9	2417.3	2347.8	2327.4	2341.7	2682.7	3181.9
32.5°	2948.0	2935.9	2848.2	2709.1	2658.9	2635.8	2537.6	2496.8	2463.1	2800.2	3383.8
35°	3099.7	3092.0	3039.0	2938.1	2863.6	2839.3	2763.2	2720.7	2634.1	2961.8	3644.7
37.5°	3292.8	3284.5	3285.6	3204.0	3115.1	3092.5	3042.3	2997.6	2855.9	3174.2	3928.3
40°	3511.2	3495.2	3489.2	3485.3	3429.0	3416.3	3389.9	3329.2	3133.9	3427.9	4208.0
42.5°	3840.0	3783.2	3661.8	3707.6	3763.3	3756.7	3778.2	3691.1	3442.8	3728.0	4481.0
45°	4157.2	4064.0	3854.4	3864.3	3986.2	4023.2	4184.2	4122.5	3777.7	4056.8	4763.5
47.5°	4301.7	4231.1	4052.9	4053.5	4174.3	4251.0	4604.0	4559.9	4129.6	4430.3	5108.2
50°	4463.4	4392.8	4232.8	4292.9	4398.3	4479.9	5009.5	4986.9	4464.5	4839.0	5521.4
52.5°	4639.9	4520.2	4418.7	4526.3	4674.1	4769.0	5415.5	5353.7	4771.7	5250.6	5996.4
55°	4642.1	4609.6	4686.8	4765.7	4986.9	5103.3	5840.8	5677.5	5022.2	5654.9	6383.1
57.5°	4906.3	4853.4	5017.2	5053.6	5342.7	5474.0	6263.9	5959.4	5277.1	5965.0	6591.6
60°	5256.1	5210.9	5344.9	5440.9	5782.9	5958.3	6715.7	6249.1	5477.3	6198.9	6581.7
62.5°	5860.1	5808.8	5807.2	5941.8	6402.4	6606.5	7222.7	6533.1	5556.7	6245.2	6300.9
65°	6744.4	6662.8	6508.9	6572.9	7258.0	7461.6	7789.2	6738.9	5451.9	5996.9	5577.7
67.5°	7605.0	7602.2	7413.0	7544.3	8387.8	8551.1	8434.7	6759.3	5124.8	5132.5	4294.6
70°	8462.8	8473.8	8441.8	8898.6	9914.2	10084.1	9122.0	6485.2	4389.5	3706.5	2572.9
72.5°	9142.4	9139.7	9300.8	10478.5	11895.2	11857.1	9701.3	5654.4	3151.6	2000.8	1229.6
75°	8702.2	8606.2	9086.2	11260.8	13049.8	12863.8	9208.6	3944.3	1635.6	910.8	662.0
77.5°	5675.9	5766.9	6471.4	9302.4	11414.7	11188.5	6756.0	1840.3	770.7	597.4	479.9
80°	2055.4	2151.4	3030.2	5269.3	7864.3	7827.3	3327.0	756.3	521.3	451.2	349.7
82.5°	707.2	742.5	1195.4	2340.1	4440.2	4605.7	1251.7	429.7	379.0	320.0	239.4
85°	277.5	317.7	546.7	1125.9	2239.7	2256.2	507.0	257.1	263.7	209.6	131.3
87.5°	105.4	128.0	261.5	523.0	1022.8	939.5	181.5	122.5	150.0	124.7	62.3
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°	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2	2496.2
2.5°	2500.1	2511.6	2535.9	2552.5	2570.1	2575.1	2577.3	2581.7	2586.1	2584.5	2585.0
5°	2515.5	2538.1	2577.3	2593.8	2601.6	2592.7	2575.6	2561.8	2551.9	2546.4	2544.7
7.5°	2540.9	2572.9	2614.8	2612.0	2594.4	2555.2	2511.1	2478.0	2450.4	2440.5	2435.0
10°	2574.5	2612.0	2641.3	2609.8	2558.5	2490.7	2424.5	2373.2	2331.8	2315.8	2313.1
12.5°	2617.6	2655.6	2661.1	2594.4	2509.4	2416.8	2326.8	2259.0	2197.2	2177.3	2172.9
15°	2673.3	2709.1	2674.9	2567.4	2448.8	2324.1	2207.7	2115.6	2050.5	2026.2	2017.4
17.5°	2731.8	2766.0	2677.7	2522.7	2369.3	2214.3	2068.1	1973.8	1899.3	1871.2	1867.9
20°	2801.8	2817.3	2666.1	2458.7	2260.1	2072.0	1918.1	1829.3	1789.5	1769.7	1767.5
22.5°	2888.4	2871.9	2639.6	2372.1	2121.6	1907.6	1782.4	1741.0	1731.1	1726.7	1728.3
25°	2980.0	2929.2	2600.5	2259.0	1946.8	1743.2	1683.1	1694.7	1707.9	1706.2	1706.2
27.5°	3080.9	2987.7	2540.3	2108.9	1753.1	1608.6	1615.8	1658.2	1678.1	1677.6	1677.0
30°	3210.6	3053.9	2463.7	1928.6	1572.2	1513.7	1557.3	1609.2	1636.2	1635.1	1635.6
32.5°	3370.0	3126.7	2359.4	1727.2	1441.5	1443.7	1493.9	1545.2	1576.6	1573.8	1574.4
35°	3556.5	3208.4	2218.2	1528.6	1354.8	1387.9	1427.7	1463.5	1493.3	1489.4	1485.6
37.5°	3759.5	3288.4	2030.6	1351.0	1284.2	1336.1	1369.2	1375.3	1389.0	1379.1	1371.9
40°	3952.5	3349.6	1789.0	1205.3	1213.1	1292.0	1313.5	1289.2	1264.4	1261.1	1251.1
42.5°	4120.8	3370.0	1544.6	1089.0	1138.0	1245.6	1258.9	1208.1	1163.4	1142.5	1133.6
45°	4298.4	3377.2	1316.8	991.3	1065.8	1204.2	1218.6	1150.7	1087.8	1042.6	1027.7
47.5°	4530.7	3429.0	1139.7	919.0	1010.6	1176.7	1197.1	1104.9	1023.3	958.8	945.0
50°	4834.6	3531.6	995.7	863.9	974.8	1158.5	1181.6	1060.3	970.3	892.6	878.8
52.5°	5172.2	3626.0	879.3	819.2	940.0	1126.5	1161.8	1028.3	920.7	831.3	816.4
55°	5408.3	3553.7	785.5	772.9	894.8	1080.7	1134.2	1001.2	849.5	771.8	758.5
57.5°	5453.6	3306.6	714.4	724.9	840.2	1023.3	1091.7	941.1	810.9	745.8	732.0
60°	5330.0	2962.3	661.4	680.7	781.7	951.0	1012.3	898.6	774.0	718.2	706.7
62.5°	5019.4	2609.8	622.3	641.0	727.1	877.7	962.6	853.9	736.4	686.8	675.2
65°	4392.2	2191.1	584.7	605.7	676.3	814.2	917.9	812.6	699.5	661.4	650.4
67.5°	3315.4	1641.1	549.4	568.2	631.1	759.1	869.4	771.8	663.6	639.4	626.1
70°	1952.3	1027.7	509.2	529.0	583.6	701.7	817.5	727.1	618.9	607.9	590.8
72.5°	908.6	618.4	463.4	482.7	524.1	625.0	750.8	668.6	566.0	541.7	518.5
75°	542.3	452.4	409.3	426.4	455.7	543.4	666.9	609.0	515.8	483.8	459.5
77.5°	405.5	345.9	349.7	367.9	391.7	475.5	590.8	562.1	477.2	452.4	435.8
80°	291.8	262.6	285.2	305.1	329.9	432.5	566.0	519.7	431.4	398.3	382.8
82.5°	194.7	188.7	214.6	235.0	259.3	378.4	531.8	455.1	368.5	326.6	292.4
85°	107.6	113.6	144.5	153.4	174.3	266.4	435.8	365.7	277.5	223.4	213.5
87.5°	44.7	52.4	77.8	75.0	92.7	158.9	286.9	220.7	176.5	131.8	102.6
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)