

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: P323646

Luminaire Tested: **GLEON-SA2C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9089 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

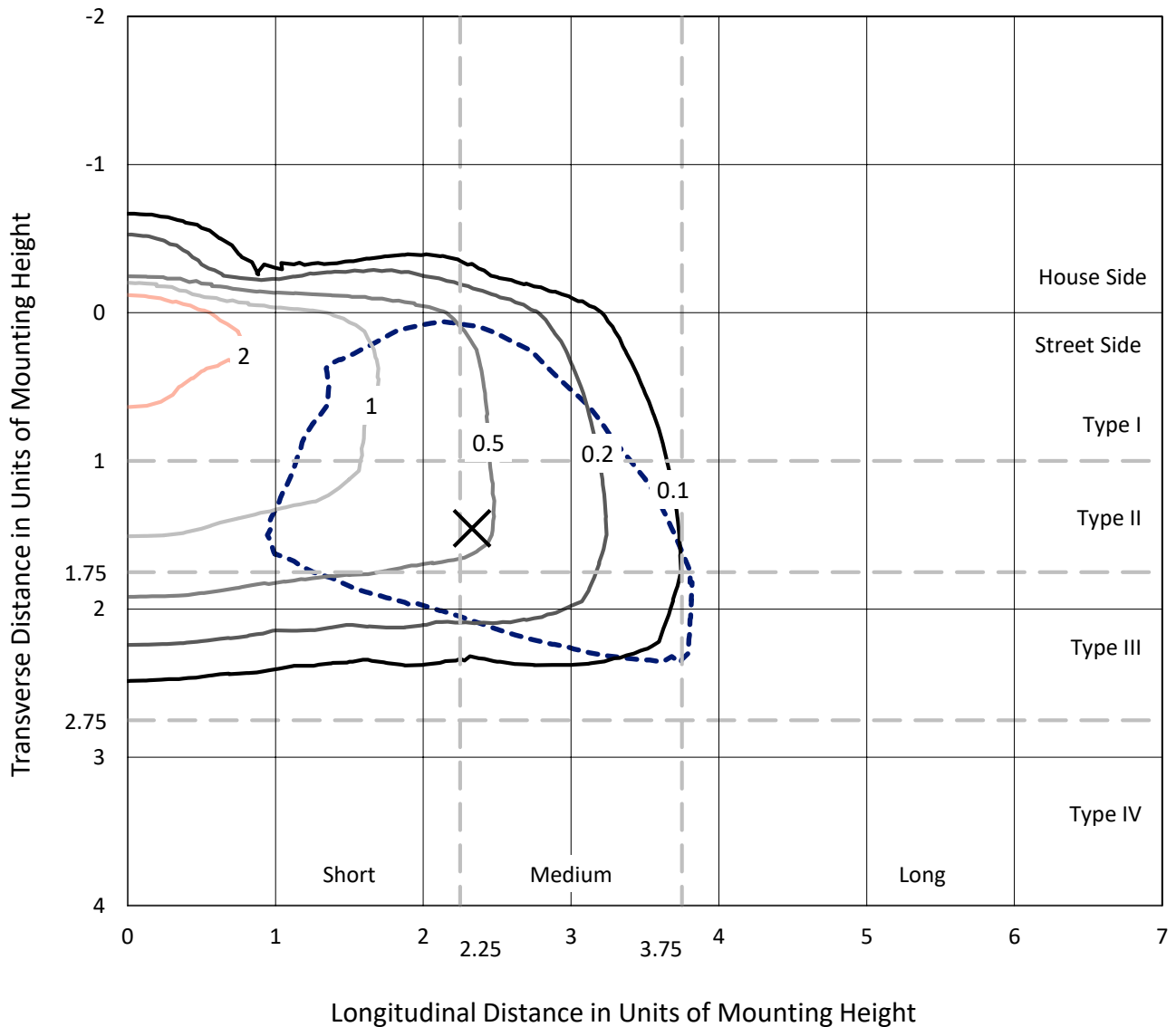
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

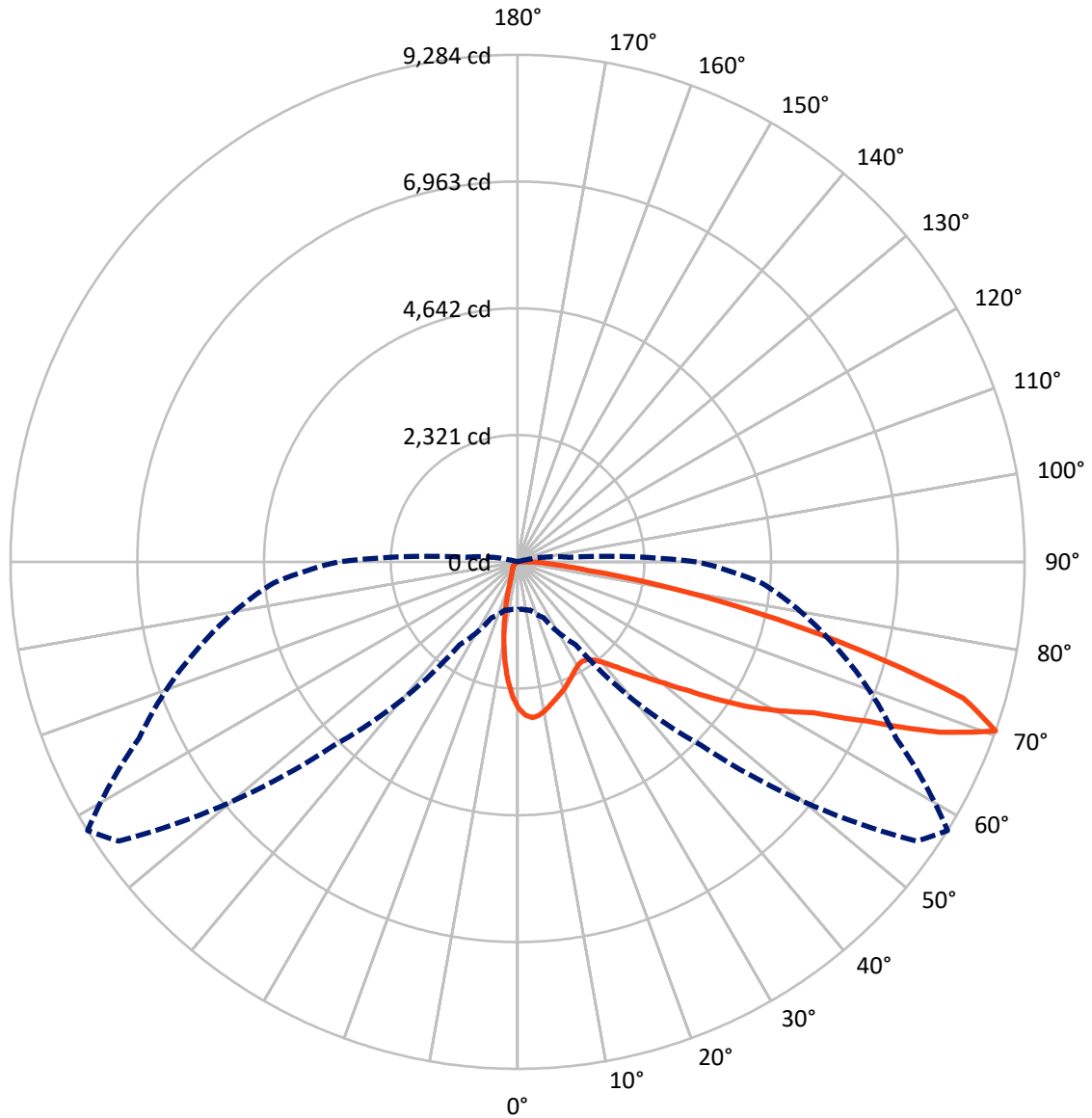
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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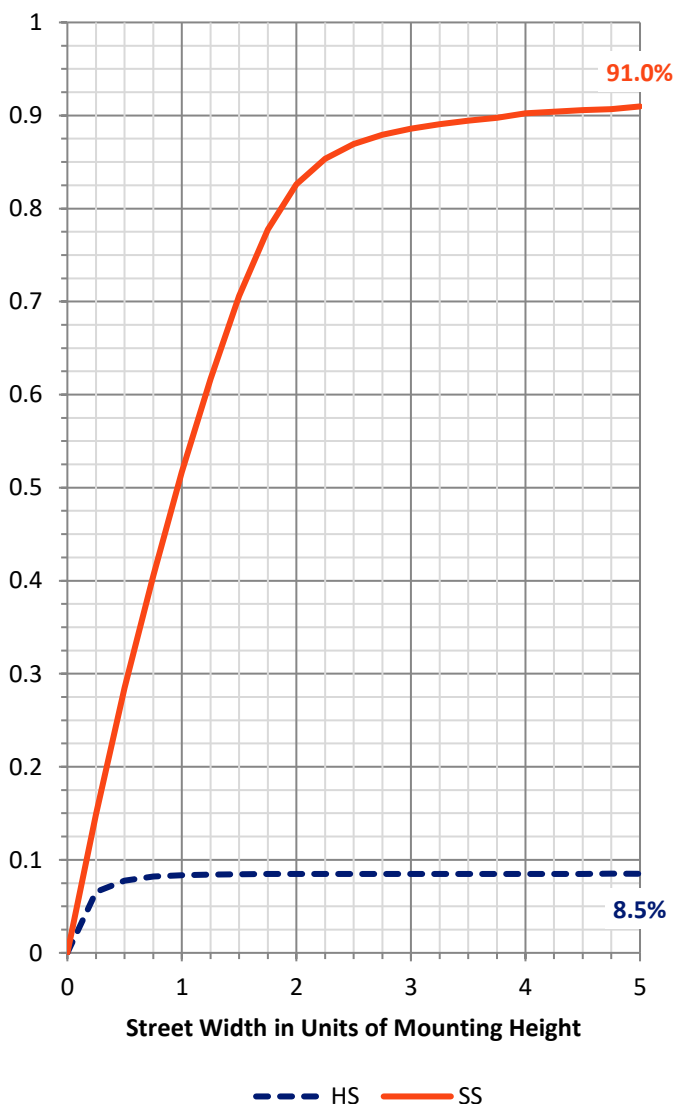
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.8	0.0	777.8
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	8311.2	0.0	8311.2
	% Fixture	91.4	0.0	91.4
Total	Lumens	9089.0	0.0	9089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	2.4
10°-20°	460.8	5.1
20°-30°	605.8	6.7
30°-40°	802.3	8.8
40°-50°	1199.2	13.2
50°-60°	1921.0	21.1
60°-70°	2421.4	26.6
70°-80°	1306.1	14.4
80°-90°	152.9	1.7
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°	9089.0	100.0
0°-180°	9089.0	100.0

Coefficient of Utilization

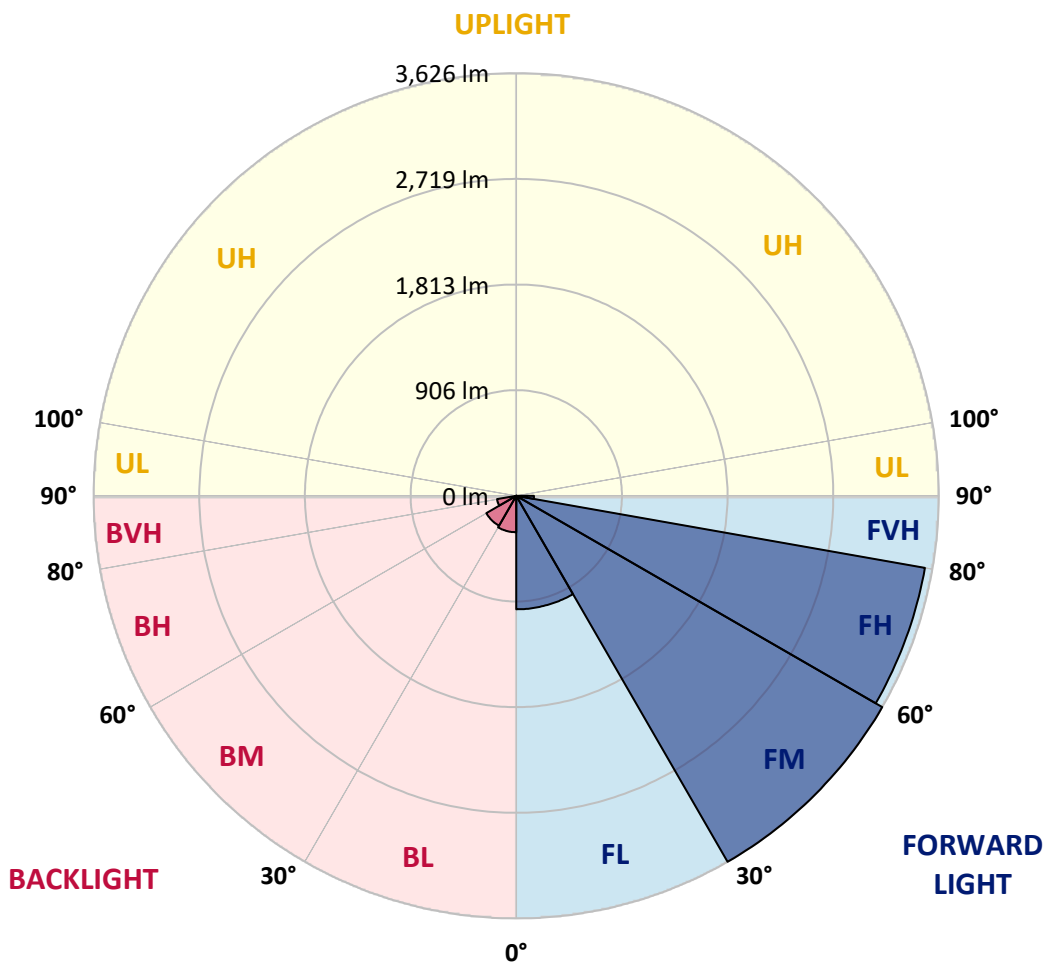


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.6	10.7			
FM (30°-60°)	3625.7	39.9			
FH (60°-80°)	3560.3	39.2			G2/5000
FVH (80°-90°)	151.6	1.7			G2/225
BL (0°-30°)	312.5	3.4	B1/500		
BM (30°-60°)	296.7	3.3	B1/1000		
BH (60°-80°)	167.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.3	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2907.5	2900.3	2897.6	2893.1	2875.7	2858.7	2825.1	2815.6	2794.4	2744.2	2690.9
5°	2909.7	2909.3	2917.3	2915.4	2909.3	2901.4	2877.2	2864.7	2828.8	2757.0	2659.5
7.5°	2769.5	2776.7	2794.4	2808.8	2825.4	2847.0	2850.0	2837.9	2808.4	2731.0	2601.7
10°	2581.3	2592.6	2617.6	2645.9	2689.4	2732.5	2771.0	2769.5	2759.3	2683.0	2532.2
12.5°	2392.7	2405.9	2434.7	2476.6	2538.2	2608.5	2677.3	2686.7	2703.7	2639.9	2467.9
15°	2227.5	2238.9	2267.2	2318.6	2395.0	2489.5	2590.4	2607.7	2651.6	2606.2	2414.2
17.5°	2087.3	2094.5	2115.3	2172.4	2260.8	2375.3	2506.5	2540.5	2605.9	2579.8	2367.8
20°	1989.4	1990.6	2004.2	2044.2	2132.7	2260.8	2419.5	2468.3	2557.5	2557.1	2319.8
22.5°	1941.1	1937.3	1939.9	1963.0	2028.0	2151.6	2332.6	2390.4	2514.0	2537.8	2271.0
25°	1932.0	1929.0	1921.4	1924.4	1963.7	2056.0	2244.9	2311.8	2475.8	2526.1	2228.7
27.5°	1960.3	1963.4	1950.5	1936.9	1939.9	1994.0	2167.1	2244.6	2444.9	2526.1	2198.8
30°	2017.4	2018.9	2009.5	1991.7	1967.9	1976.6	2113.0	2190.5	2429.4	2543.5	2179.9
32.5°	2080.5	2088.8	2087.7	2073.3	2039.3	2004.2	2100.2	2170.9	2428.2	2582.0	2178.0
35°	2158.8	2168.2	2184.1	2181.1	2145.5	2087.7	2144.0	2199.6	2450.5	2645.5	2198.4
37.5°	2241.9	2256.3	2290.3	2306.5	2283.5	2218.1	2242.3	2282.0	2510.2	2748.3	2250.2
40°	2322.4	2338.7	2400.6	2464.5	2447.1	2379.9	2391.2	2422.9	2616.4	2896.1	2348.5
42.5°	2401.4	2425.6	2516.7	2621.7	2642.5	2588.9	2594.9	2620.2	2774.0	3099.4	2509.1
45°	2495.9	2523.1	2658.0	2787.6	2843.2	2819.8	2845.5	2862.1	2980.0	3368.2	2725.7
47.5°	2634.6	2666.0	2831.5	2979.3	3076.8	3091.9	3143.7	3154.6	3240.4	3681.1	3008.0
50°	2905.2	2913.9	3063.5	3197.7	3338.3	3429.0	3488.0	3496.3	3555.6	4023.1	3360.6
52.5°	3245.7	3251.4	3336.0	3426.0	3585.8	3771.0	3909.0	3920.7	3933.2	4356.5	3708.7
55°	3584.0	3583.2	3639.1	3692.0	3875.0	4144.1	4443.4	4450.6	4361.0	4672.8	3974.7
57.5°	3795.2	3815.6	3900.7	3968.7	4224.2	4569.2	4984.6	5011.0	4810.4	4907.1	4237.8
60°	3727.9	3737.8	3926.4	4178.1	4659.2	5173.5	5532.2	5539.0	5148.2	5141.0	4570.4
62.5°	3176.2	3181.5	3477.8	3996.7	4879.5	5957.4	6192.8	6082.1	5536.7	5465.7	4968.3
65°	2176.9	2211.3	2458.8	3100.2	4474.7	6449.1	7215.5	7032.2	6129.0	5933.6	5328.1
67.5°	1282.0	1274.8	1397.2	1869.6	3286.5	6122.5	8509.2	8327.0	6936.6	6246.9	5222.7
70°	875.7	870.8	917.6	1131.9	1855.3	4749.5	8916.2	9284.0	7649.8	6036.0	4494.8
72.5°	625.1	627.7	696.9	879.5	1164.8	2767.2	7667.5	8537.9	7426.4	5262.0	3416.5
75°	424.4	431.6	530.6	721.5	1021.2	1407.8	5441.1	6490.3	6047.3	3824.3	1963.7
77.5°	228.3	236.2	353.0	581.3	923.3	978.1	3500.1	4466.8	3798.6	1719.2	569.2
80°	95.2	99.8	165.2	422.5	797.8	859.0	2059.4	2708.7	1618.7	339.0	127.0
82.5°	41.2	43.5	68.8	252.1	596.4	725.3	1090.3	1303.1	490.6	74.5	63.9
85°	7.9	8.3	28.3	133.4	380.6	409.3	706.7	692.8	220.3	32.1	46.5
87.5°	0.0	0.0	6.8	42.0	111.9	223.0	431.2	425.9	74.8	15.5	17.4
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°	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8	2684.8
2.5°	2663.7	2637.6	2582.8	2515.2	2463.4	2406.3	2361.0	2303.5	2278.6	2279.7	2266.1
5°	2604.0	2550.3	2429.0	2275.9	2158.0	2036.3	1931.6	1827.3	1765.7	1745.7	1726.8
7.5°	2518.6	2433.5	2240.0	2004.2	1804.6	1609.6	1439.9	1290.6	1196.2	1150.1	1133.0
10°	2422.2	2302.8	2022.7	1712.0	1427.1	1163.3	943.3	752.1	675.7	624.0	610.7
12.5°	2337.5	2175.8	1810.3	1412.3	1074.1	755.9	546.1	427.1	375.3	354.9	351.5
15°	2257.8	2057.1	1605.8	1141.0	743.8	465.2	347.3	306.9	294.8	291.4	291.4
17.5°	2182.6	1944.1	1405.9	873.8	492.1	326.2	287.6	278.5	274.8	274.4	274.8
20°	2104.0	1831.1	1209.4	640.2	343.5	276.3	265.7	260.8	259.6	259.6	259.6
22.5°	2028.8	1718.1	1018.2	457.3	275.5	252.1	246.8	243.4	242.3	241.9	241.1
25°	1956.6	1610.8	831.5	323.1	241.9	230.9	226.4	221.8	218.4	216.6	215.4
27.5°	1897.2	1515.1	657.6	259.3	218.4	209.0	203.3	196.5	188.2	184.4	182.9
30°	1850.0	1427.8	506.8	218.8	196.5	187.1	178.4	166.7	154.6	148.2	147.8
32.5°	1813.0	1342.0	384.7	193.5	176.9	165.2	152.7	137.9	124.0	116.8	116.4
35°	1794.8	1266.5	294.0	175.0	159.5	144.7	129.3	113.0	99.4	92.6	91.8
37.5°	1806.9	1202.6	229.4	159.5	144.7	127.7	109.6	92.6	80.5	74.5	74.1
40°	1851.1	1161.8	186.3	146.3	132.3	111.5	91.8	76.0	65.8	60.8	60.5
42.5°	1945.2	1146.7	159.1	135.3	120.2	96.4	76.3	62.7	53.3	49.9	49.1
45°	2102.5	1169.0	140.6	124.7	107.7	82.0	63.1	51.4	43.1	40.4	40.1
47.5°	2311.8	1227.5	127.4	114.5	96.4	69.2	52.5	41.6	35.1	32.5	32.1
50°	2581.7	1320.5	116.4	104.3	85.8	58.6	43.5	32.9	27.2	25.3	25.3
52.5°	2875.3	1431.2	106.6	94.9	75.2	48.8	35.1	25.3	21.5	19.3	19.3
55°	3118.0	1528.0	96.0	87.7	62.4	40.4	26.8	19.3	15.9	14.7	14.7
57.5°	3360.2	1631.2	83.9	75.2	49.9	32.9	20.4	14.4	11.7	11.0	11.0
60°	3674.3	1757.4	72.2	61.2	39.3	24.9	15.1	10.2	8.7	8.3	8.3
62.5°	4019.7	1831.5	61.6	49.1	30.6	18.5	11.0	6.8	6.4	6.4	6.0
65°	4231.0	1726.8	51.8	39.3	23.8	14.0	7.2	4.9	5.7	5.3	4.5
67.5°	3961.5	1351.9	42.3	30.6	18.5	10.6	4.5	3.4	6.0	4.9	3.8
70°	3280.1	946.3	32.9	21.5	14.7	9.1	3.0	2.3	6.4	4.9	3.0
72.5°	2454.7	633.4	26.1	14.4	11.0	7.9	2.6	1.1	5.7	4.2	2.6
75°	1341.3	255.1	20.8	9.1	6.8	5.7	1.9	0.8	3.8	3.0	1.9
77.5°	353.0	67.3	15.1	6.0	3.8	2.3	1.1	0.4	1.9	1.5	0.8
80°	89.9	26.1	9.8	4.2	2.6	1.1	0.0	0.0	0.4	0.0	0.0
82.5°	48.0	11.0	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	7.2	3.4	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	2.3	1.1	0.0	0.0	0.0	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)