

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: P382859

Luminaire Tested: **GLEON-SA2B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10893.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

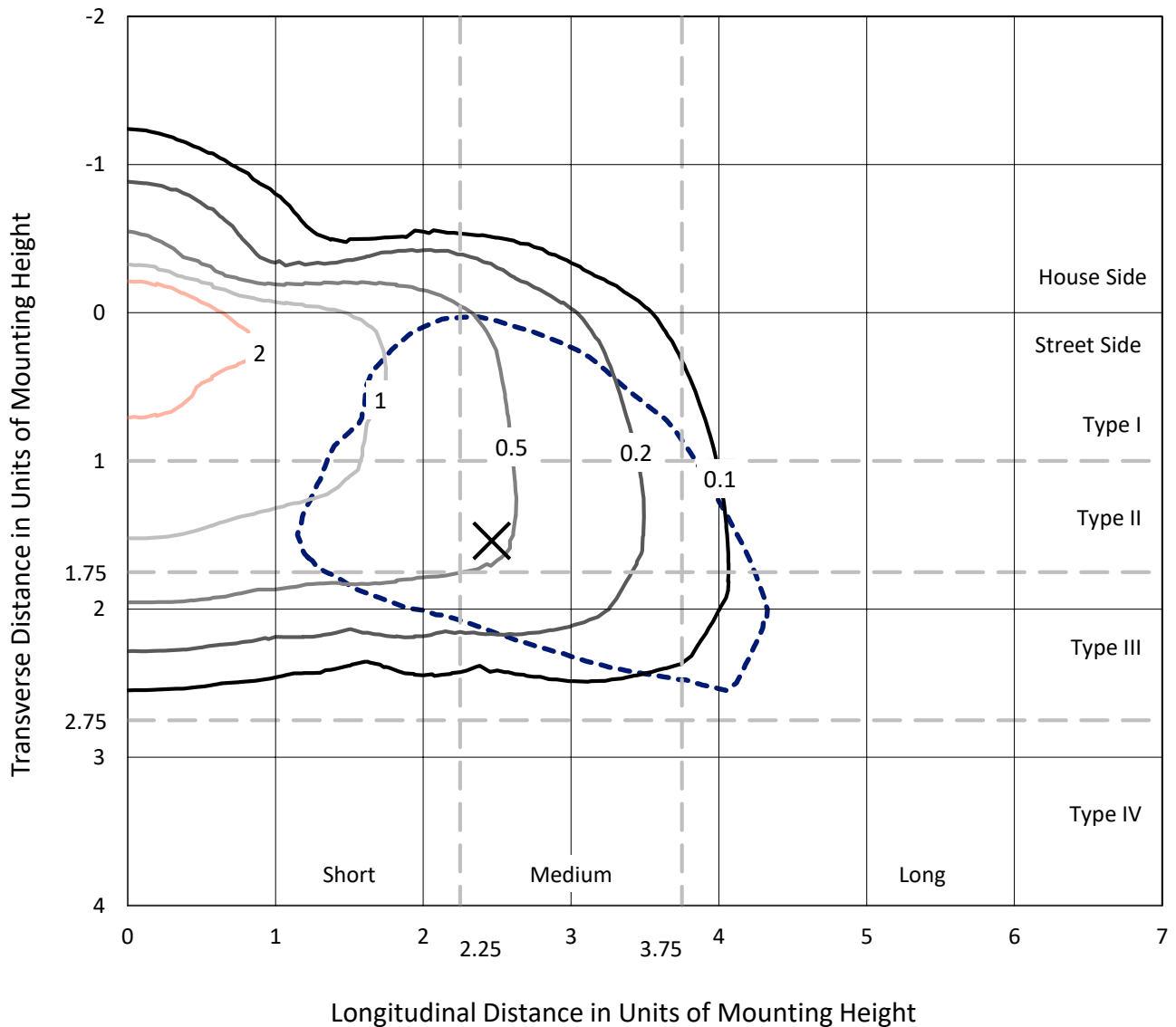
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

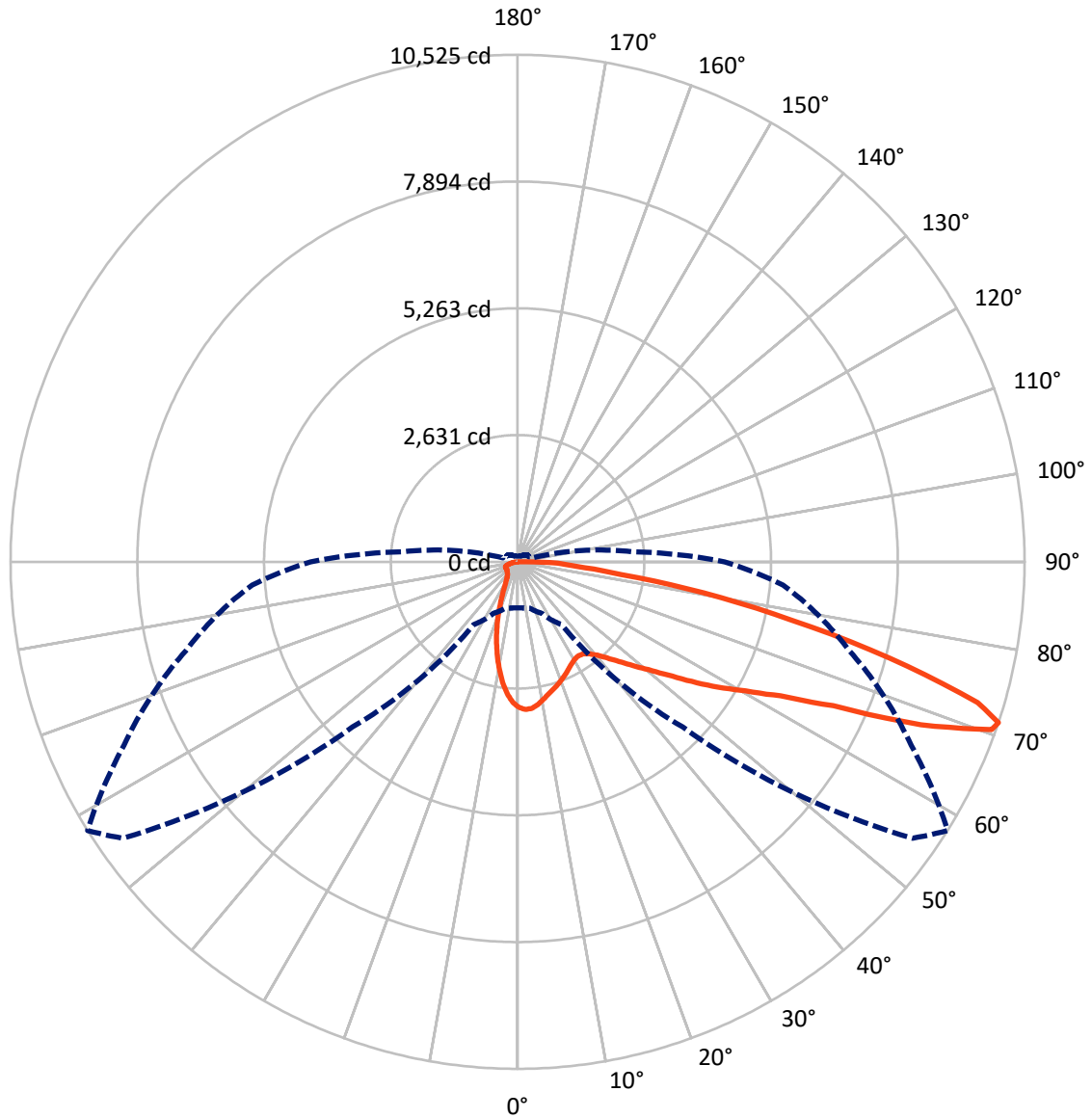
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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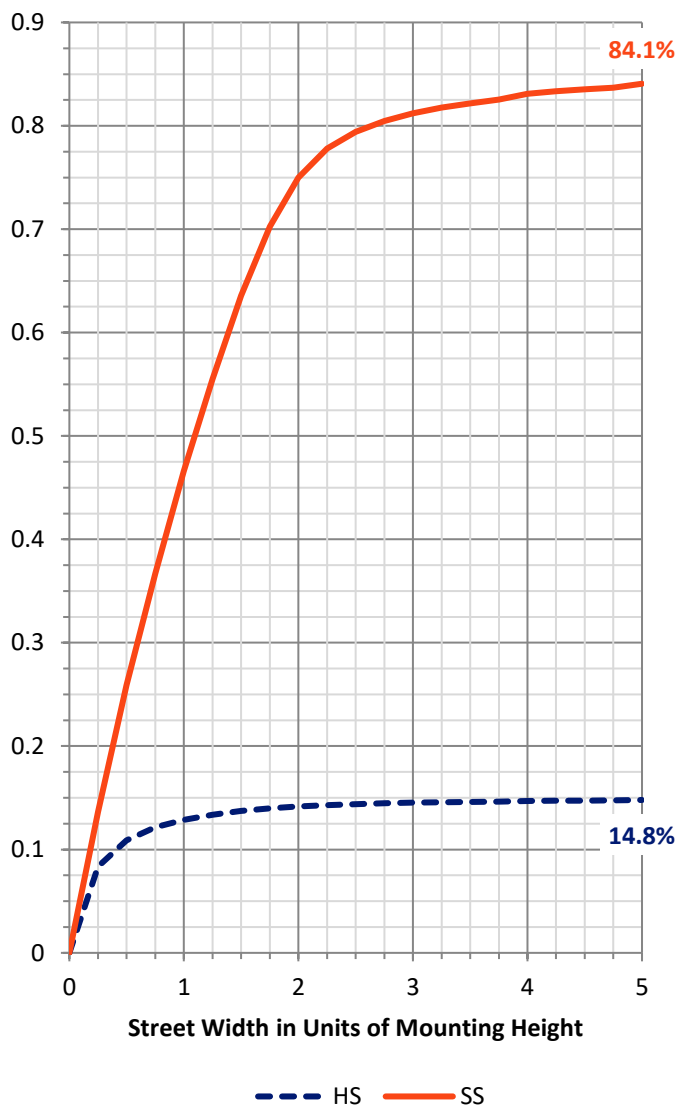
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1628.7	0.0	1628.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9264.9	0.0	9264.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	10893.5	0.0	10893.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.4	2.4
10°-20°	579.0	5.3
20°-30°	735.8	6.8
30°-40°	937.3	8.6
40°-50°	1329.2	12.2
50°-60°	2056.9	18.9
60°-70°	2800.2	25.7
70°-80°	1868.1	17.1
80°-90°	326.6	3.0
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°	10893.5	100.0
0°-180°	10893.5	100.0

Coefficient of Utilization

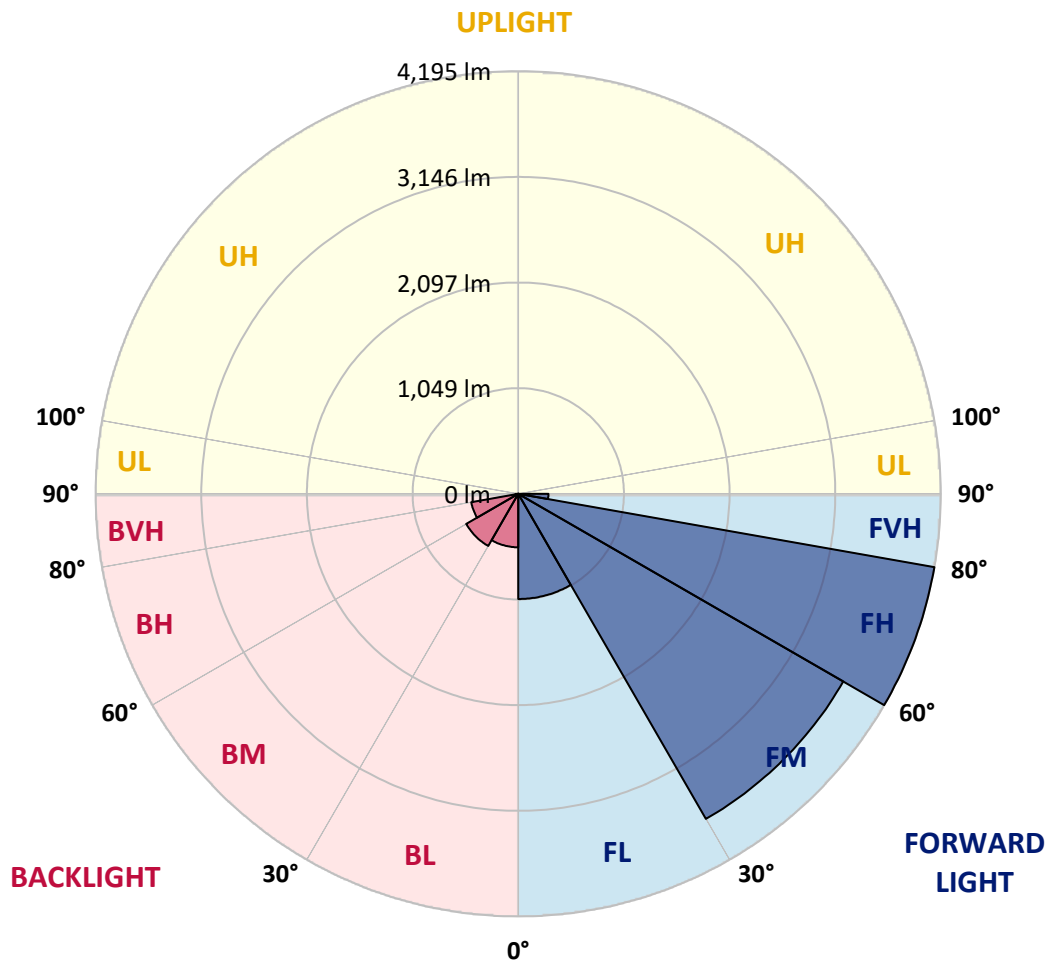


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.3	9.6			
FM (30°-60°)	3726.1	34.2			
FH (60°-80°)	4195.0	38.5			G2/5000
FVH (80°-90°)	299.5	2.7			G3/500
BL (0°-30°)	530.9	4.9	B2/1000		
BM (30°-60°)	597.3	5.5	B1/1000		
BH (60°-80°)	473.4	4.3	B1/500		G1/500
BVH (80°-90°)	27.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2
2.5°	3098.3	3094.1	3095.6	3092.6	3085.4	3078.2	3067.6	3069.4	3054.6	3032.7	3005.4
5°	3039.8	3038.3	3049.7	3056.2	3061.5	3057.3	3054.3	3058.1	3036.5	3006.1	2958.7
7.5°	2917.3	2900.6	2915.0	2936.6	2957.1	2972.7	2993.2	2995.9	2982.2	2950.3	2888.1
10°	2743.1	2727.2	2748.4	2782.3	2823.1	2860.4	2901.8	2909.3	2912.0	2883.1	2807.6
12.5°	2562.5	2550.4	2571.6	2619.0	2687.0	2744.2	2810.3	2821.7	2845.2	2825.8	2733.3
15°	2400.9	2396.3	2422.1	2468.8	2546.9	2634.6	2729.8	2750.7	2790.5	2784.1	2675.2
17.5°	2261.2	2260.0	2279.8	2328.8	2415.2	2526.1	2649.8	2685.1	2744.2	2751.9	2627.4
20°	2157.3	2154.9	2168.6	2204.7	2293.8	2419.4	2563.2	2611.9	2697.2	2723.8	2578.1
22.5°	2101.5	2101.1	2101.5	2118.5	2191.4	2308.3	2479.0	2538.2	2651.3	2701.4	2523.4
25°	2092.0	2090.9	2082.5	2080.6	2122.0	2215.3	2395.6	2460.8	2607.7	2685.8	2471.4
27.5°	2116.7	2118.2	2107.2	2089.3	2097.7	2154.2	2323.1	2392.9	2572.7	2682.8	2435.3
30°	2167.9	2167.1	2157.7	2139.0	2122.7	2131.5	2271.5	2341.3	2549.2	2696.1	2410.8
32.5°	2224.4	2228.5	2226.7	2216.4	2192.1	2157.3	2255.9	2324.2	2542.4	2727.9	2400.1
35°	2292.4	2296.9	2310.5	2318.5	2290.0	2233.9	2289.3	2348.5	2562.1	2787.9	2417.2
37.5°	2356.8	2368.6	2406.9	2440.7	2416.4	2353.8	2378.1	2420.2	2623.2	2882.4	2463.1
40°	2431.2	2441.5	2504.1	2575.8	2572.0	2507.1	2521.1	2549.2	2731.0	3017.8	2546.2
42.5°	2504.5	2525.0	2615.6	2717.3	2746.6	2689.3	2711.6	2726.5	2882.8	3197.4	2691.1
45°	2602.0	2624.0	2749.9	2872.5	2940.8	2908.6	2944.2	2949.9	3073.6	3441.7	2901.8
47.5°	2749.6	2774.6	2921.4	3050.1	3154.5	3157.9	3216.7	3214.4	3311.9	3721.3	3167.0
50°	2979.6	3015.6	3135.9	3256.1	3382.9	3453.4	3532.1	3521.1	3597.6	4019.3	3472.4
52.5°	3280.8	3297.5	3386.7	3475.5	3632.9	3791.2	3903.9	3894.1	3921.7	4325.5	3819.3
55°	3593.1	3605.6	3642.4	3691.0	3902.7	4160.8	4399.0	4383.5	4313.3	4643.5	4162.0
57.5°	3873.9	3899.4	3924.8	3944.9	4174.5	4547.1	4905.7	4906.8	4738.3	4986.5	4516.0
60°	3917.5	3940.0	4108.0	4266.7	4639.3	5062.4	5447.9	5436.5	5178.1	5358.7	4910.6
62.5°	3462.9	3513.4	3794.2	4216.2	5087.1	6004.9	6139.6	6125.7	5704.1	5817.5	5370.1
65°	2481.6	2538.9	2877.8	3511.9	4870.0	7043.5	7388.1	7199.1	6421.3	6381.8	5908.2
67.5°	1431.7	1445.4	1592.2	2101.5	3708.1	7097.8	9292.7	9028.1	7534.9	7021.9	6171.6
70°	1058.7	1058.3	1093.3	1293.2	2006.6	5792.8	10198.4	10435.6	8707.5	7232.5	5799.3
71°	957.4	958.6	997.6	1177.1	1589.2	4848.8	10006.0	10525.1	9016.4	7128.6	5529.9
72.5°	818.8	822.6	877.0	1055.6	1336.9	3343.8	9177.2	9987.8	9162.9	6872.0	5108.3
75°	621.2	629.9	705.0	889.8	1221.8	1695.8	6735.5	7975.5	8139.9	6063.8	3795.8
77.5°	443.2	453.1	538.1	748.3	1161.5	1278.0	4510.6	5817.5	5990.1	3886.0	1712.1
80°	280.0	291.8	355.9	595.4	1091.3	1213.5	2834.6	3910.4	3266.4	1243.5	435.6
82.5°	164.3	173.5	220.9	388.9	891.4	1168.7	1667.7	2167.5	1271.2	375.7	198.0
85°	95.2	99.4	137.8	247.8	647.3	1103.1	1225.3	1211.7	551.8	183.7	93.7
87.5°	44.4	49.4	81.6	129.4	359.4	799.5	968.3	836.7	343.0	86.2	44.1
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°	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2	3018.2
2.5°	2992.0	2985.6	2958.7	2934.7	2909.7	2877.1	2841.0	2836.5	2814.5	2818.7	2811.0
5°	2932.9	2916.6	2851.7	2792.9	2723.4	2661.2	2593.6	2562.5	2517.7	2514.7	2503.3
7.5°	2848.2	2817.8	2717.3	2605.7	2494.2	2387.9	2282.9	2213.7	2143.2	2113.2	2110.6
10°	2753.0	2701.4	2553.4	2388.3	2227.4	2072.2	1922.0	1810.7	1710.6	1663.2	1661.3
12.5°	2662.6	2586.4	2383.4	2158.8	1938.6	1737.5	1531.5	1385.4	1259.8	1217.7	1199.8
15°	2586.1	2478.7	2217.9	1930.7	1663.6	1384.3	1149.8	996.1	879.9	839.8	832.2
17.5°	2511.6	2373.5	2048.3	1700.4	1377.5	1070.4	835.6	721.4	659.5	643.1	642.8
20°	2437.7	2265.3	1871.1	1464.8	1100.8	800.7	642.4	591.2	570.3	568.4	565.4
22.5°	2353.8	2150.8	1684.8	1228.3	859.1	629.5	546.1	525.6	522.9	529.8	529.8
25°	2275.2	2036.9	1495.9	996.8	668.2	525.2	487.6	483.5	490.6	502.8	504.0
27.5°	2202.0	1927.3	1311.4	791.2	535.5	462.6	447.0	451.9	464.8	478.9	479.3
30°	2141.7	1823.7	1132.3	623.5	452.4	415.8	413.2	423.1	437.2	448.2	450.8
32.5°	2095.1	1735.3	959.3	501.3	398.1	381.0	383.2	391.6	400.3	406.4	410.5
35°	2073.3	1659.4	799.5	422.7	363.5	354.1	357.1	361.6	365.4	370.0	373.4
37.5°	2077.2	1600.6	656.8	373.7	340.4	335.5	335.5	335.5	335.5	337.7	338.1
40°	2112.5	1566.8	540.8	342.6	324.8	319.5	315.3	311.5	308.5	310.0	309.3
42.5°	2202.7	1563.8	455.7	323.0	312.3	303.6	295.2	289.9	286.1	287.7	288.4
45°	2356.1	1601.7	398.4	308.9	300.5	287.3	276.7	270.9	268.3	273.2	274.0
47.5°	2554.5	1684.4	363.5	298.7	289.5	272.1	260.6	255.3	256.2	263.3	265.2
50°	2810.3	1818.8	346.8	292.2	282.0	259.2	247.4	242.9	245.1	255.3	257.7
52.5°	3091.1	2012.2	348.7	290.3	277.0	249.7	237.2	231.9	235.7	245.1	247.0
55°	3415.1	2244.9	380.3	293.0	269.8	243.6	228.8	219.8	222.7	231.5	233.0
57.5°	3775.3	2511.3	443.6	292.2	260.6	237.9	220.1	206.4	208.7	214.0	215.6
60°	4150.1	2833.0	541.9	294.5	256.5	231.1	208.3	191.2	190.5	195.1	195.8
62.5°	4600.2	3205.3	654.2	296.0	259.2	222.4	192.7	176.1	173.8	174.9	175.7
65°	5063.9	3474.8	612.0	289.9	267.5	215.2	179.1	161.3	157.1	156.3	156.7
67.5°	5078.3	3186.0	429.2	277.8	270.9	211.4	168.9	148.8	141.9	139.3	138.9
70°	4554.3	2588.3	334.3	264.8	257.3	205.3	159.4	138.5	128.3	124.1	123.7
71°	4298.5	2382.6	316.8	258.4	247.0	199.3	155.2	134.0	123.3	118.8	118.0
72.5°	3897.4	2135.9	295.6	248.2	227.3	183.7	147.2	127.5	116.5	111.2	110.0
75°	2797.0	1396.8	253.8	221.2	188.2	146.4	129.0	114.6	105.1	98.7	97.9
77.5°	1077.7	555.9	192.0	184.1	144.2	114.6	106.3	99.0	92.2	85.8	85.4
80°	333.1	248.5	140.0	138.5	104.3	85.4	82.7	80.9	78.2	71.4	69.9
82.5°	177.9	142.7	96.4	89.5	68.3	56.9	60.0	60.7	61.1	53.8	53.1
85°	85.0	75.5	54.3	50.9	39.9	31.9	36.8	39.9	40.2	33.0	30.7
87.5°	40.6	39.5	25.4	19.4	14.8	10.6	12.9	15.9	17.4	12.5	11.0
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)