

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: P319477

Luminaire Tested: **GLEON-SA3B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12564 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

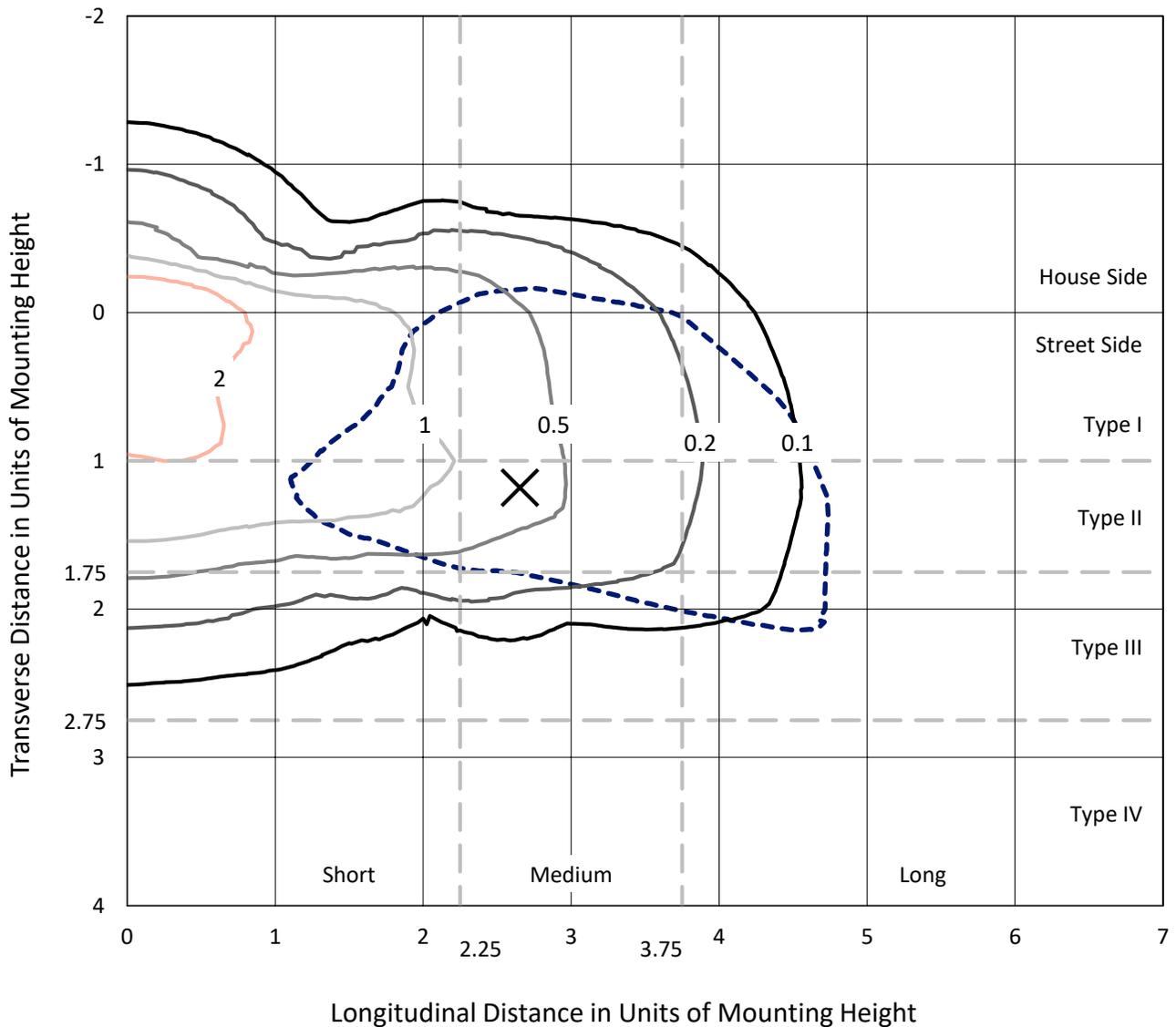
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

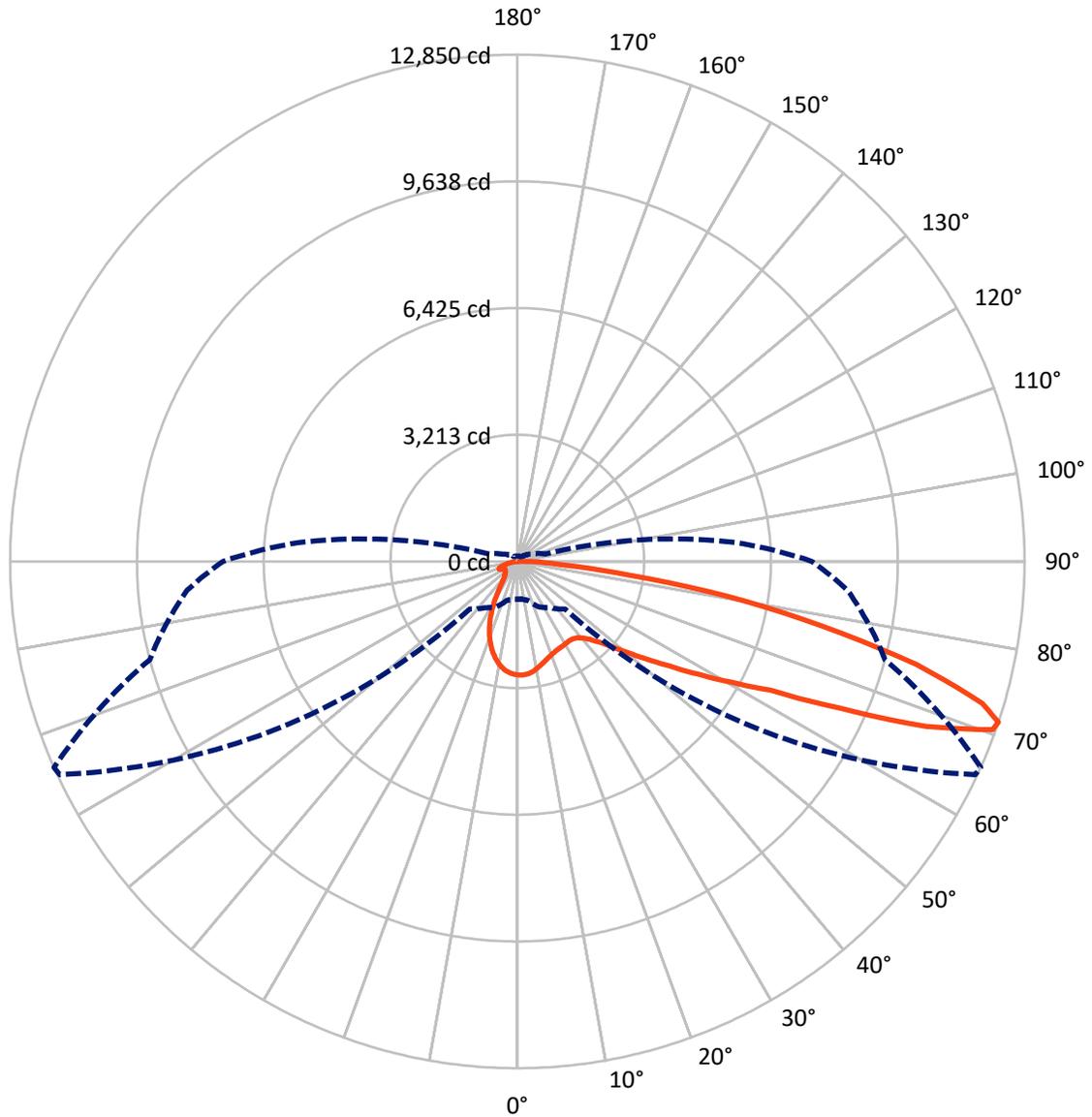
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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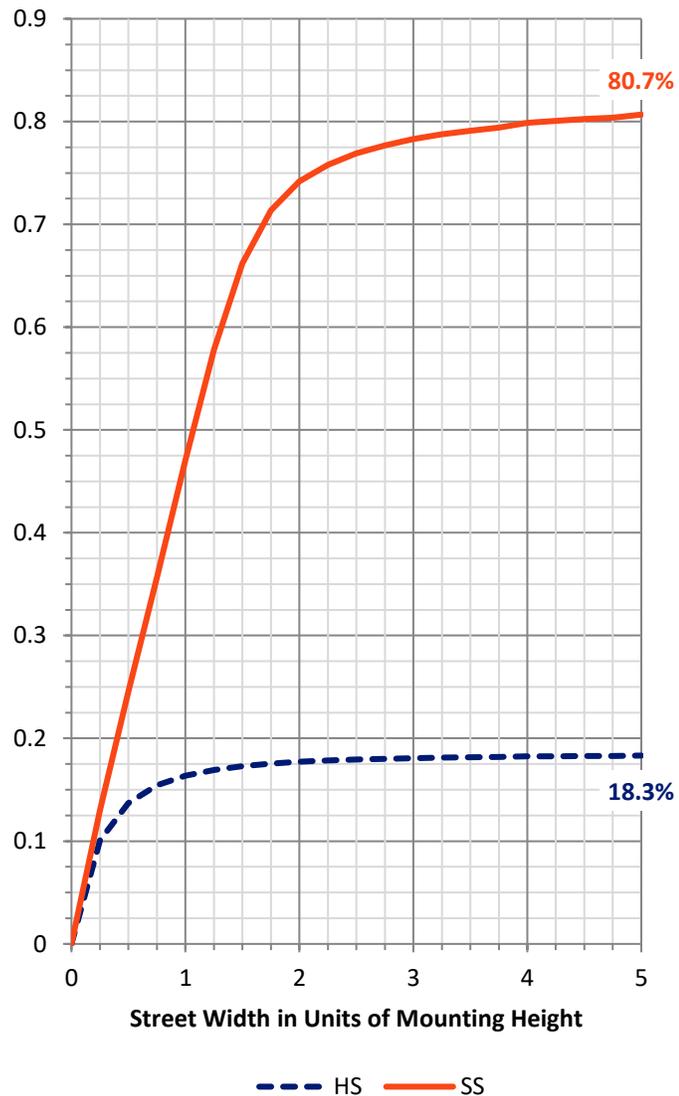
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2328.5	0.0	2328.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10235.5	0.0	10235.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	12564.0	0.0	12564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	2.0
10°-20°	607.6	4.8
20°-30°	816.2	6.5
30°-40°	1073.7	8.5
40°-50°	1562.0	12.4
50°-60°	2440.0	19.4
60°-70°	3056.4	24.3
70°-80°	2331.4	18.6
80°-90°	423.4	3.4
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°	12564.0	100.0
0°-180°	12564.0	100.0

Coefficient of Utilization

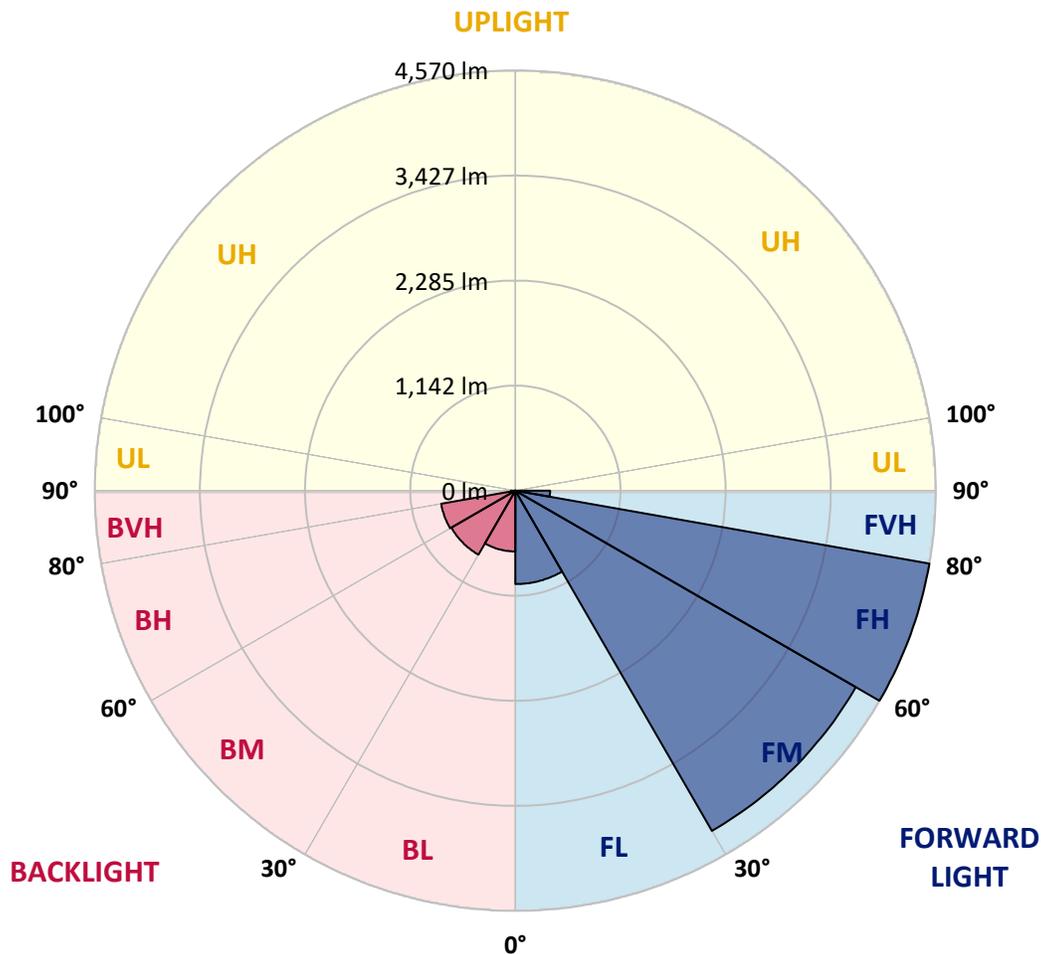


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.0	8.1			
FM (30°-60°)	4272.4	34.0			
FH (60°-80°)	4569.7	36.4			G2/5000
FVH (80°-90°)	377.5	3.0			G3/500
BL (0°-30°)	661.2	5.3	B2/1000		
BM (30°-60°)	803.2	6.4	B1/1000		
BH (60°-80°)	818.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	45.8	0.4			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°	65°	66°	75°	85°
0°	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2
2.5°	2824.8	2820.5	2833.5	2846.9	2852.1	2860.8	2873.8	2881.2	2880.8	2882.1	2877.7
5°	2637.4	2631.8	2657.8	2679.1	2719.8	2765.8	2821.8	2861.7	2862.6	2885.1	2891.2
7.5°	2460.0	2456.1	2486.0	2520.3	2567.6	2637.9	2728.5	2814.4	2819.6	2880.8	2902.0
10°	2317.7	2316.9	2345.9	2383.2	2438.3	2516.8	2620.9	2746.7	2754.5	2860.0	2903.8
12.5°	2206.7	2208.4	2233.6	2276.1	2334.2	2416.2	2529.0	2670.8	2683.4	2827.0	2893.8
15°	2124.7	2131.6	2152.0	2195.0	2252.2	2335.5	2451.3	2600.5	2619.6	2790.1	2888.1
17.5°	2077.8	2085.6	2100.0	2135.5	2189.3	2269.6	2379.3	2542.9	2560.2	2761.9	2888.6
20°	2064.0	2070.5	2078.7	2100.4	2145.9	2218.8	2322.5	2490.8	2509.5	2739.4	2892.9
22.5°	2091.3	2096.1	2096.9	2095.2	2122.9	2182.4	2281.3	2452.6	2472.6	2724.6	2896.0
25°	2149.8	2156.3	2151.6	2135.5	2126.4	2162.9	2260.0	2427.5	2447.4	2713.8	2889.9
27.5°	2237.9	2238.8	2234.9	2214.0	2171.1	2165.0	2253.5	2412.7	2431.8	2701.2	2877.3
30°	2357.6	2363.3	2356.3	2328.1	2257.9	2199.7	2261.3	2398.4	2415.8	2685.1	2856.9
32.5°	2497.7	2511.6	2511.2	2481.7	2381.1	2277.4	2293.4	2389.7	2403.2	2668.2	2832.2
35°	2643.1	2662.1	2697.7	2685.1	2560.6	2400.1	2355.0	2403.6	2412.7	2666.0	2814.8
37.5°	2794.0	2813.1	2886.4	2920.2	2774.5	2575.8	2452.2	2452.6	2457.0	2692.5	2813.5
40°	2951.9	2972.3	3082.5	3170.5	3051.7	2798.4	2608.8	2555.0	2550.2	2757.6	2839.1
42.5°	3173.1	3191.4	3323.7	3436.0	3359.2	3083.3	2825.2	2712.9	2702.9	2885.1	2921.1
45°	3452.9	3468.6	3609.1	3729.3	3689.8	3408.7	3097.2	2930.2	2928.5	3097.7	3087.3
47.5°	3785.6	3797.8	3924.0	4040.3	4054.6	3783.0	3439.1	3265.5	3237.3	3389.2	3344.5
50°	4132.2	4145.7	4231.6	4356.5	4462.8	4284.1	3878.9	3676.3	3638.6	3773.9	3708.9
52.5°	4361.7	4379.5	4454.1	4612.4	4921.7	4833.2	4399.0	4174.3	4117.1	4240.3	4190.4
55°	4259.3	4299.3	4413.3	4667.1	5288.7	5672.2	5040.6	4755.2	4690.5	4792.9	4763.4
57.5°	3793.9	3848.5	4004.3	4396.0	5340.3	6411.4	6010.5	5439.2	5393.7	5364.2	5377.6
60°	2943.2	2995.7	3188.8	3699.3	4980.7	6951.0	7470.2	6282.5	6216.6	5937.7	5949.8
62.5°	2083.0	2056.6	2188.9	2562.4	4047.2	7014.3	9131.2	7410.4	7193.5	6543.2	6489.9
65°	1588.5	1582.5	1641.9	1760.7	2451.3	6256.5	10120.7	9306.0	8967.2	7255.5	7129.7
67.5°	1305.3	1294.4	1353.0	1526.1	1578.5	4036.4	10142.3	11505.3	11172.6	8142.2	7869.7
70°	1073.2	1061.0	1115.7	1339.1	1458.8	2047.0	8536.0	12793.2	12775.4	9264.8	8428.5
71°	962.1	953.5	1019.0	1267.1	1433.2	1706.1	7370.0	12796.7	12850.0	9644.8	8395.5
72.5°	783.4	786.5	855.9	1127.8	1414.1	1506.5	5416.7	12200.2	12313.0	10007.0	8095.7
75°	520.5	523.1	614.2	867.6	1371.2	1474.0	2977.1	10237.3	10444.7	9790.1	7387.4
77.5°	349.6	348.8	410.8	595.2	1194.6	1474.0	1745.6	7656.8	7884.5	7789.9	5695.2
80°	240.8	239.0	282.8	410.8	904.4	1491.8	1349.5	5365.9	5434.9	4206.9	2314.7
82.5°	147.5	148.8	184.8	290.2	615.5	1342.6	1274.0	2925.9	2850.8	1179.9	578.2
85°	84.6	84.2	118.0	196.5	395.2	1133.0	1242.4	1259.3	1155.2	355.3	209.1
87.5°	30.4	32.5	63.3	108.9	226.4	789.1	1054.1	655.0	590.4	160.5	94.6
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°	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2
2.5°	2874.7	2877.3	2874.3	2856.9	2842.2	2818.3	2804.9	2786.2	2780.6	2778.0	2784.9
5°	2885.5	2886.4	2860.8	2815.3	2764.1	2703.8	2660.4	2607.1	2581.9	2571.0	2578.0
7.5°	2895.5	2891.6	2835.7	2748.5	2653.9	2548.9	2455.7	2370.2	2320.3	2299.9	2301.7
10°	2896.8	2880.3	2790.5	2655.6	2509.0	2355.0	2211.9	2080.0	1996.7	1942.5	1959.0
12.5°	2883.4	2855.6	2724.2	2535.5	2332.0	2122.1	1928.6	1730.8	1611.9	1556.9	1558.6
15°	2873.0	2822.6	2642.6	2394.1	2120.8	1842.7	1578.5	1346.0	1219.4	1163.0	1136.5
17.5°	2864.3	2787.1	2548.1	2234.9	1871.4	1518.7	1201.2	993.8	924.4	907.9	901.0
20°	2852.1	2749.3	2442.6	2050.5	1587.2	1156.0	877.1	774.7	775.2	794.3	796.9
22.5°	2835.2	2706.4	2330.3	1843.6	1282.3	842.0	687.6	658.1	688.0	724.4	730.9
25°	2810.1	2655.6	2205.4	1615.0	977.8	647.2	587.3	586.0	622.5	660.7	666.3
27.5°	2774.5	2589.3	2066.6	1369.5	720.5	550.0	526.2	535.3	562.2	589.9	592.1
30°	2726.8	2512.1	1913.4	1110.5	564.8	489.7	487.1	495.4	511.9	531.4	533.1
32.5°	2674.3	2433.5	1749.9	859.8	483.7	457.2	459.8	463.7	471.5	479.3	481.1
35°	2626.6	2353.3	1582.5	653.3	445.1	436.0	434.2	433.4	434.2	431.6	432.1
37.5°	2595.8	2286.9	1408.1	520.1	422.9	417.3	412.1	405.6	398.2	393.9	394.7
40°	2584.5	2237.5	1231.5	449.4	404.7	400.8	390.8	377.0	368.3	365.7	365.7
42.5°	2614.9	2211.9	1061.0	413.8	389.5	383.0	366.5	350.5	344.0	343.6	343.1
45°	2707.7	2222.3	898.8	394.3	375.7	363.1	341.4	327.9	323.6	324.5	324.0
47.5°	2874.3	2287.8	760.0	381.3	361.8	345.3	321.0	310.2	305.0	305.0	305.4
50°	3157.5	2440.9	649.4	370.5	350.1	328.8	306.3	292.8	285.9	285.4	285.4
52.5°	3570.1	2715.1	580.4	361.3	337.1	314.1	291.5	274.6	266.3	264.6	263.7
55°	4087.1	3108.1	561.3	355.3	319.7	298.0	273.7	256.8	247.7	243.8	243.4
57.5°	4665.4	3586.1	599.1	347.9	301.9	278.9	254.2	238.1	228.6	223.8	223.4
60°	5250.5	4108.0	753.1	337.5	287.2	258.1	234.2	219.5	210.0	204.7	203.9
62.5°	5836.6	4658.0	1067.5	336.6	276.8	238.1	213.9	201.3	192.2	186.5	185.2
65°	6497.7	5260.1	1425.0	359.6	273.3	219.9	193.0	183.1	175.2	170.0	169.6
67.5°	7256.8	5939.8	1390.7	406.9	285.0	203.4	173.5	165.7	160.1	155.7	155.3
70°	7612.9	5833.6	864.5	440.3	301.5	187.4	154.9	149.2	144.9	141.8	140.5
71°	7463.7	5539.0	724.9	436.4	299.7	180.5	147.5	143.1	138.8	136.2	134.9
72.5°	7056.8	5051.4	604.7	406.0	280.2	167.9	137.9	133.6	129.7	126.7	125.8
75°	6332.4	4511.4	484.1	324.5	223.4	141.8	121.0	116.3	113.2	111.5	109.7
77.5°	4655.0	3219.6	374.4	256.4	164.4	115.8	103.2	99.8	96.7	94.1	92.8
80°	1783.3	1247.1	252.0	191.3	120.6	91.5	83.3	81.6	78.5	76.8	76.8
82.5°	480.2	372.6	134.5	115.8	80.7	66.8	63.8	62.9	60.3	56.8	57.3
85°	194.3	164.4	75.5	63.8	49.5	39.5	42.9	43.4	40.3	36.0	36.4
87.5°	85.5	69.8	42.1	28.2	21.7	15.2	19.5	19.5	17.8	14.7	13.4
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)