

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: P319787

Luminaire Tested: **GLEON-SA3A-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319787
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-SA3A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 10460 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

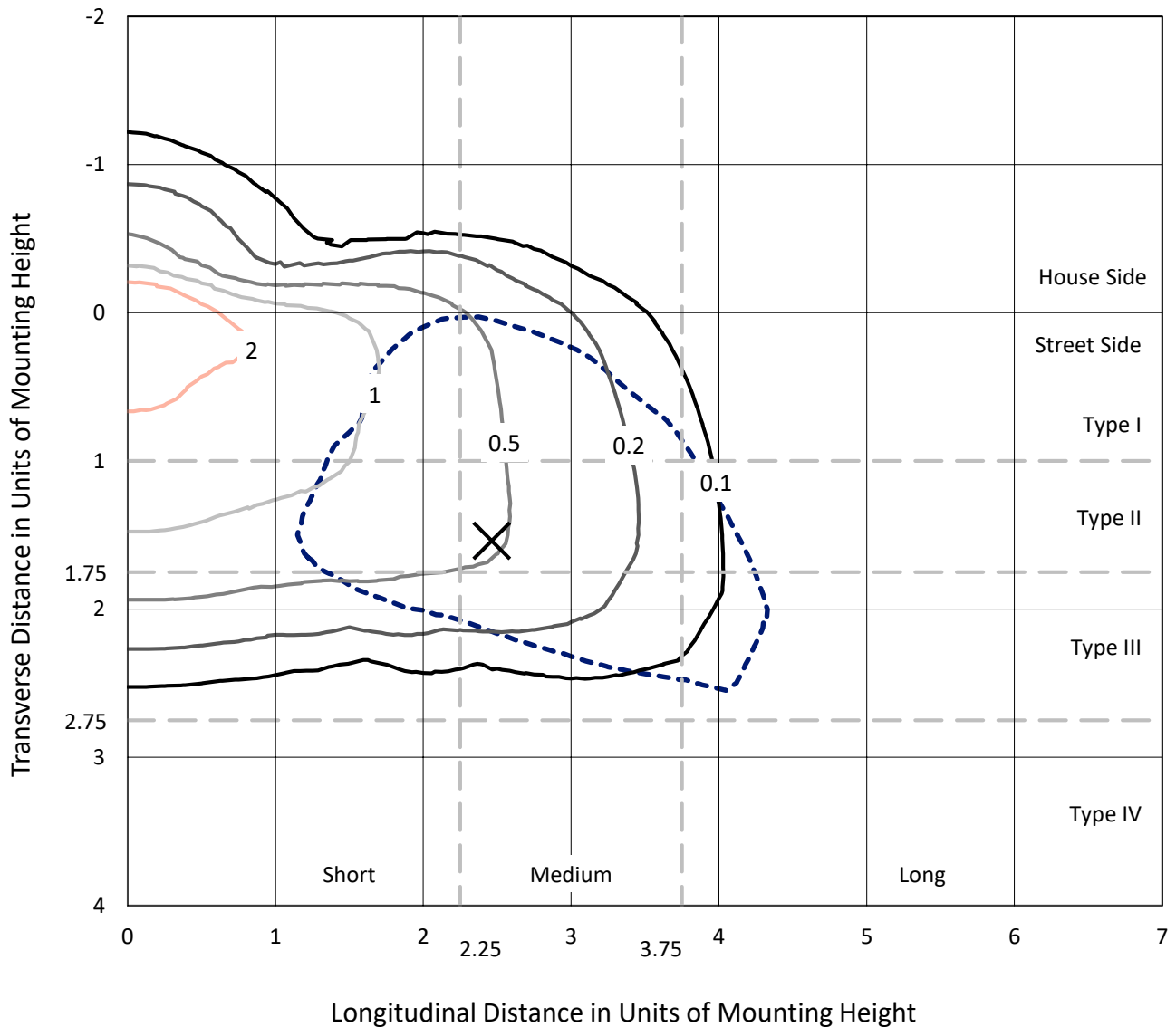
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

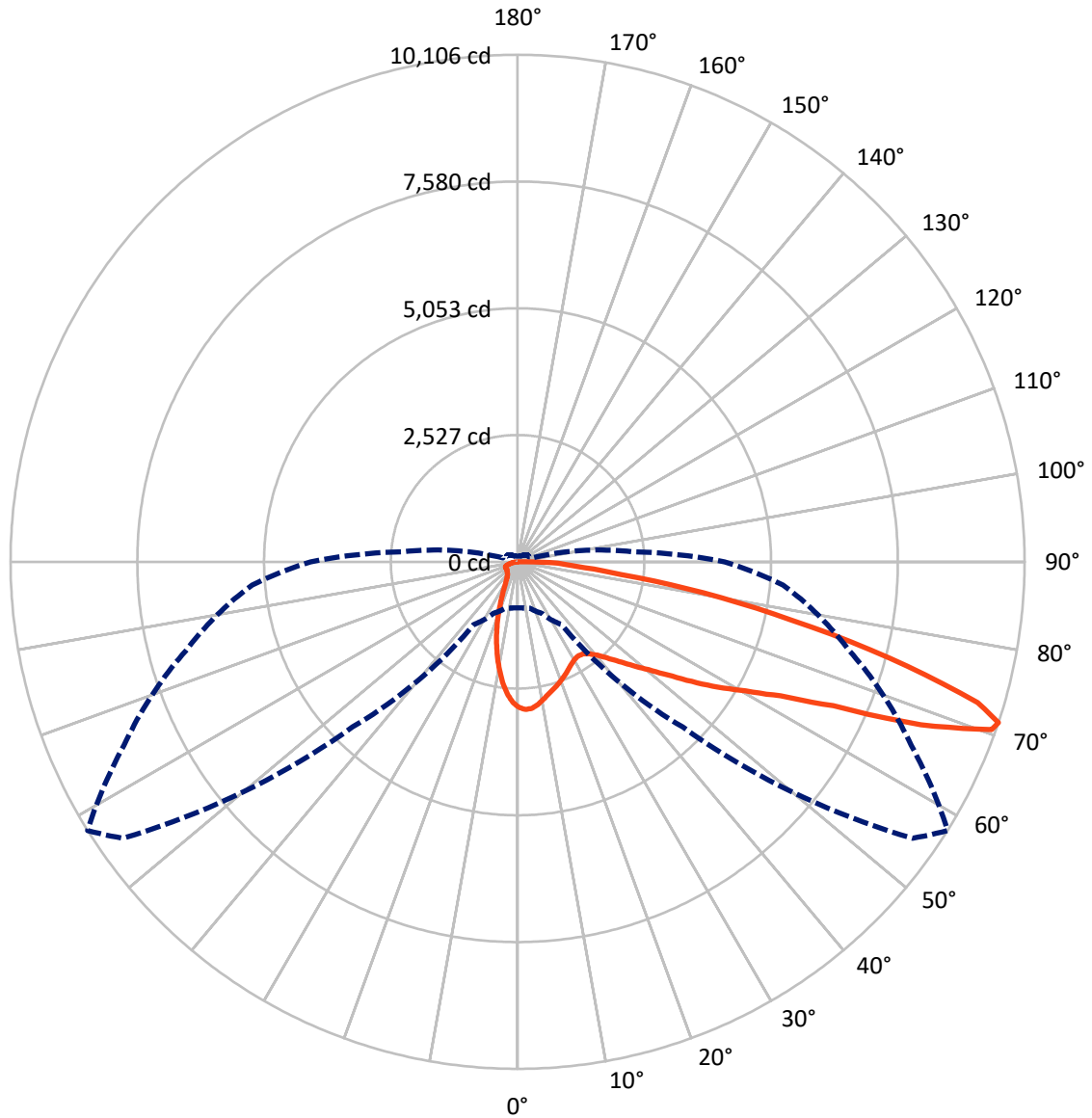
✕ Max cd
 - - - 1/2 Max cd



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

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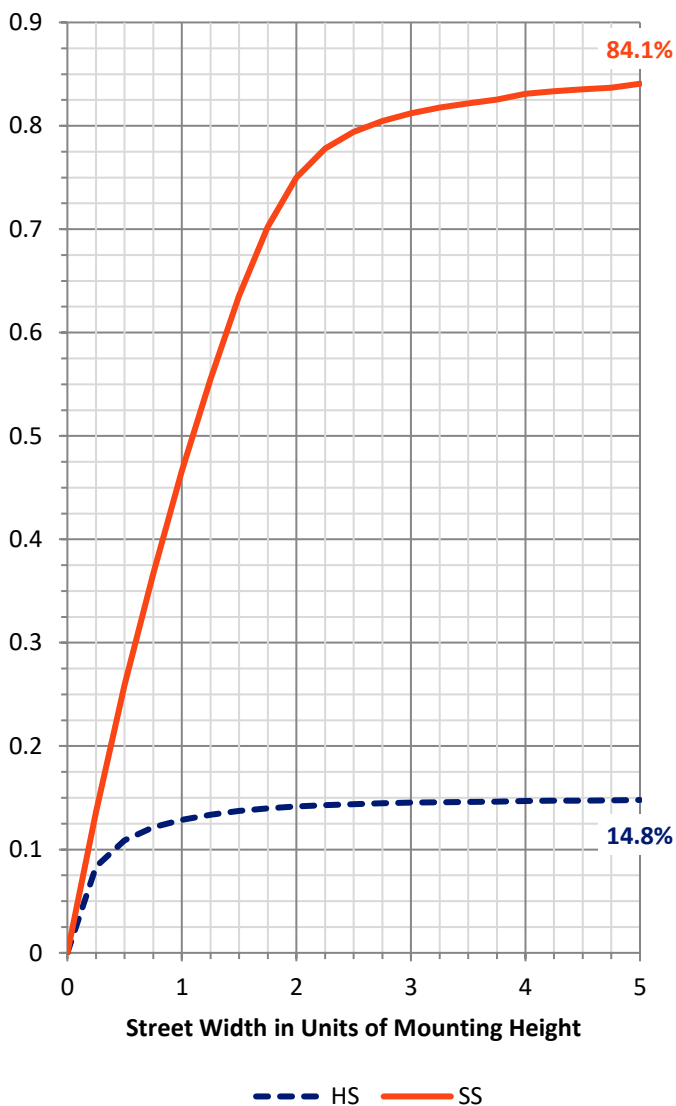
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1563.8	0.0	1563.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8896.2	0.0	8896.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	10460.0	0.0	10460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	2.4
10°-20°	556.0	5.3
20°-30°	706.6	6.8
30°-40°	900.0	8.6
40°-50°	1276.3	12.2
50°-60°	1975.1	18.9
60°-70°	2688.8	25.7
70°-80°	1793.7	17.1
80°-90°	313.6	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°	10460.0	100.0
0°-180°	10460.0	100.0

Coefficient of Utilization

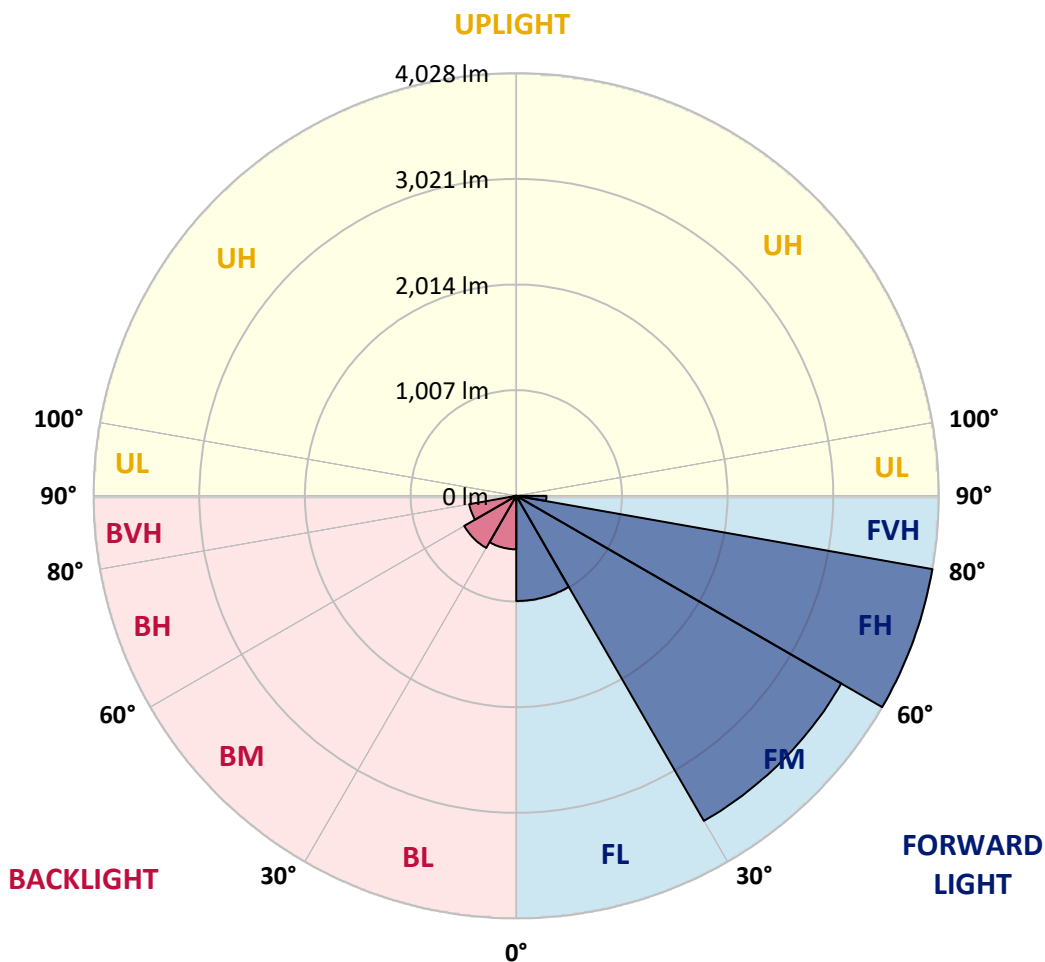


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.8	9.6			
FM (30°-60°)	3577.8	34.2			
FH (60°-80°)	4028.0	38.5			G2/5000
FVH (80°-90°)	287.6	2.7			G3/500
BL (0°-30°)	509.8	4.9	B2/1000		
BM (30°-60°)	573.5	5.5	B1/1000		
BH (60°-80°)	454.5	4.3	B1/500		G1/500
BVH (80°-90°)	26.1	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°	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1
2.5°	2975.0	2971.0	2972.4	2969.5	2962.6	2955.7	2945.5	2947.3	2933.1	2912.0	2885.7
5°	2918.9	2917.4	2928.4	2934.6	2939.7	2935.6	2932.7	2936.4	2915.6	2886.5	2840.9
7.5°	2801.2	2785.2	2799.0	2819.8	2839.5	2854.4	2874.1	2876.6	2863.5	2832.9	2773.1
10°	2634.0	2618.7	2639.1	2671.5	2710.8	2746.5	2786.3	2793.5	2796.1	2768.4	2695.9
12.5°	2460.5	2448.9	2469.3	2514.8	2580.0	2635.1	2698.4	2709.4	2732.0	2713.4	2624.5
15°	2305.3	2300.9	2325.7	2370.5	2445.6	2529.8	2621.2	2641.2	2679.5	2673.3	2568.7
17.5°	2171.2	2170.1	2189.1	2236.1	2319.2	2425.5	2544.3	2578.2	2635.1	2642.3	2522.8
20°	2071.4	2069.2	2082.3	2116.9	2202.6	2323.2	2461.3	2507.9	2589.9	2615.4	2475.5
22.5°	2017.8	2017.5	2017.8	2034.2	2104.2	2216.4	2380.4	2437.2	2545.8	2593.9	2423.0
25°	2008.7	2007.6	1999.6	1997.8	2037.5	2127.1	2300.2	2362.9	2503.9	2578.9	2373.1
27.5°	2032.4	2033.9	2023.3	2006.2	2014.2	2068.5	2230.6	2297.7	2470.4	2576.0	2338.5
30°	2081.6	2080.9	2071.8	2053.9	2038.2	2046.6	2181.1	2248.1	2447.8	2588.8	2314.8
32.5°	2135.9	2139.9	2138.1	2128.2	2104.9	2071.4	2166.1	2231.7	2441.2	2619.4	2304.6
35°	2201.1	2205.5	2218.6	2226.2	2198.9	2145.0	2198.2	2255.0	2460.2	2677.0	2321.0
37.5°	2263.0	2274.3	2311.1	2343.6	2320.2	2260.1	2283.4	2323.9	2518.8	2767.7	2365.1
40°	2334.5	2344.3	2404.4	2473.3	2469.6	2407.3	2420.8	2447.8	2622.3	2897.8	2444.9
42.5°	2404.8	2424.5	2511.5	2609.2	2637.2	2582.2	2603.7	2617.9	2768.0	3070.1	2584.0
45°	2498.4	2519.5	2640.5	2758.2	2823.8	2792.8	2827.1	2832.5	2951.3	3304.7	2786.3
47.5°	2640.2	2664.2	2805.2	2928.7	3028.9	3032.2	3088.7	3086.5	3180.1	3573.3	3040.9
50°	2861.0	2895.6	3011.1	3126.6	3248.3	3316.0	3391.5	3380.9	3454.5	3859.3	3334.3
52.5°	3150.3	3166.3	3251.9	3337.2	3488.4	3640.3	3748.5	3739.1	3765.7	4153.3	3667.3
55°	3450.1	3462.1	3497.5	3544.1	3747.4	3995.2	4224.0	4209.1	4141.7	4458.7	3996.3
57.5°	3719.8	3744.2	3768.6	3787.9	4008.3	4366.1	4710.4	4711.5	4549.8	4788.1	4336.2
60°	3761.7	3783.1	3944.6	4096.9	4454.7	4860.9	5231.1	5220.2	4972.1	5145.5	4715.2
62.5°	3325.1	3373.6	3643.2	4048.4	4884.6	5766.0	5895.3	5881.9	5477.1	5586.0	5156.4
65°	2382.9	2437.9	2763.3	3372.2	4676.2	6763.2	7094.1	6912.6	6165.7	6127.8	5673.1
67.5°	1374.7	1387.8	1528.9	2017.8	3560.5	6815.4	8922.8	8668.9	7235.1	6742.5	5926.0
70°	1016.6	1016.2	1049.7	1241.7	1926.7	5562.3	9792.5	10020.3	8361.0	6944.7	5568.5
71°	919.3	920.4	957.9	1130.2	1525.9	4655.8	9607.8	10106.3	8657.6	6844.9	5309.8
72.5°	786.3	789.9	842.0	1013.6	1283.6	3210.7	8812.0	9590.3	8798.2	6598.6	4905.0
75°	596.5	604.8	677.0	854.4	1173.2	1628.3	6467.4	7658.1	7815.9	5822.5	3644.7
77.5°	425.6	435.0	516.7	718.5	1115.3	1227.2	4331.1	5586.0	5751.8	3731.4	1644.0
80°	268.9	280.2	341.8	571.7	1047.9	1165.2	2721.8	3754.7	3136.4	1194.0	418.3
82.5°	157.8	166.5	212.1	373.5	855.9	1122.2	1601.4	2081.2	1220.6	360.7	190.2
85°	91.5	95.5	132.3	237.9	621.6	1059.2	1176.5	1163.4	529.8	176.4	90.0
87.5°	42.6	47.4	78.3	124.2	345.0	767.7	929.8	803.4	329.4	82.7	42.3
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°	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1
2.5°	2873.0	2866.8	2840.9	2818.0	2793.9	2762.6	2728.0	2723.6	2702.5	2706.5	2699.2
5°	2816.1	2800.5	2738.2	2681.7	2615.0	2555.3	2490.4	2460.5	2417.5	2414.6	2403.7
7.5°	2734.9	2705.7	2609.2	2502.1	2394.9	2292.9	2192.0	2125.7	2057.9	2029.1	2026.6
10°	2643.4	2593.9	2451.8	2293.3	2138.8	1989.8	1845.5	1738.7	1642.5	1597.0	1595.2
12.5°	2556.7	2483.5	2288.5	2072.8	1861.5	1668.4	1470.6	1330.3	1209.7	1169.2	1152.1
15°	2483.1	2380.0	2129.7	1853.9	1597.4	1329.2	1104.0	956.4	845.0	806.3	799.0
17.5°	2411.7	2279.1	1966.8	1632.7	1322.6	1027.9	802.3	692.6	633.3	617.6	617.2
20°	2340.6	2175.2	1796.7	1406.4	1057.0	768.8	616.9	567.7	547.6	545.8	542.9
22.5°	2260.1	2065.2	1617.8	1179.4	824.9	604.5	524.3	504.6	502.1	508.6	508.6
25°	2184.7	1955.9	1436.3	957.2	641.6	504.3	468.2	464.2	471.1	482.8	483.9
27.5°	2114.4	1850.6	1259.2	759.7	514.1	444.2	429.2	434.0	446.3	459.8	460.2
30°	2056.4	1751.1	1087.3	598.6	434.3	399.3	396.8	406.3	419.7	430.3	432.9
32.5°	2011.6	1666.2	921.1	481.3	382.2	365.8	368.0	376.0	384.4	390.2	394.2
35°	1990.9	1593.3	767.7	405.9	349.1	339.9	342.9	347.2	350.9	355.3	358.5
37.5°	1994.5	1536.9	630.7	358.9	326.8	322.1	322.1	322.1	322.1	324.3	324.6
40°	2028.4	1504.4	519.2	329.0	311.9	306.8	302.8	299.1	296.2	297.7	297.0
42.5°	2115.1	1501.5	437.6	310.1	299.9	291.5	283.5	278.4	274.7	276.2	276.9
45°	2262.3	1538.0	382.6	296.6	288.6	275.8	265.6	260.2	257.6	262.3	263.1
47.5°	2452.9	1617.4	349.1	286.8	278.0	261.2	250.3	245.2	245.9	252.9	254.7
50°	2698.4	1746.4	333.0	280.6	270.7	248.9	237.6	233.2	235.4	245.2	247.4
52.5°	2968.1	1932.2	334.8	278.7	266.0	239.7	227.7	222.6	226.3	235.4	237.2
55°	3279.2	2155.6	365.1	281.3	259.1	233.9	219.7	211.0	213.9	222.3	223.7
57.5°	3625.0	2411.3	425.9	280.6	250.3	228.5	211.3	198.2	200.4	205.5	207.0
60°	3985.0	2720.3	520.3	282.7	246.3	221.9	200.0	183.6	182.9	187.3	188.0
62.5°	4417.1	3077.7	628.2	284.2	248.9	213.5	185.1	169.1	166.9	168.0	168.7
65°	4862.4	3336.4	587.7	278.4	256.9	206.6	172.0	154.9	150.8	150.1	150.5
67.5°	4876.2	3059.2	412.1	266.7	260.2	202.9	162.1	142.8	136.3	133.7	133.4
70°	4373.0	2485.3	321.0	254.3	247.0	197.1	153.0	133.0	123.2	119.1	118.8
71°	4127.5	2287.8	304.2	248.1	237.2	191.3	149.0	128.6	118.4	114.0	113.3
72.5°	3742.3	2051.0	283.8	238.3	218.3	176.4	141.4	122.4	111.9	106.8	105.7
75°	2685.7	1341.2	243.8	212.4	180.7	140.6	123.9	110.0	100.9	94.7	94.0
77.5°	1034.8	533.8	184.4	176.7	138.5	110.0	102.0	95.1	88.5	82.3	82.0
80°	319.9	238.7	134.4	133.0	100.2	82.0	79.4	77.6	75.1	68.5	67.0
82.5°	170.9	137.0	92.5	86.0	65.6	54.7	57.6	58.3	58.7	51.7	51.0
85°	81.6	72.5	52.1	48.8	38.3	30.6	35.3	38.3	38.6	31.7	29.5
87.5°	39.0	37.9	24.4	18.6	14.2	10.2	12.4	15.3	16.8	12.0	10.6
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)