

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: P323967

Luminaire Tested: **GLEON-SA3C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12884 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

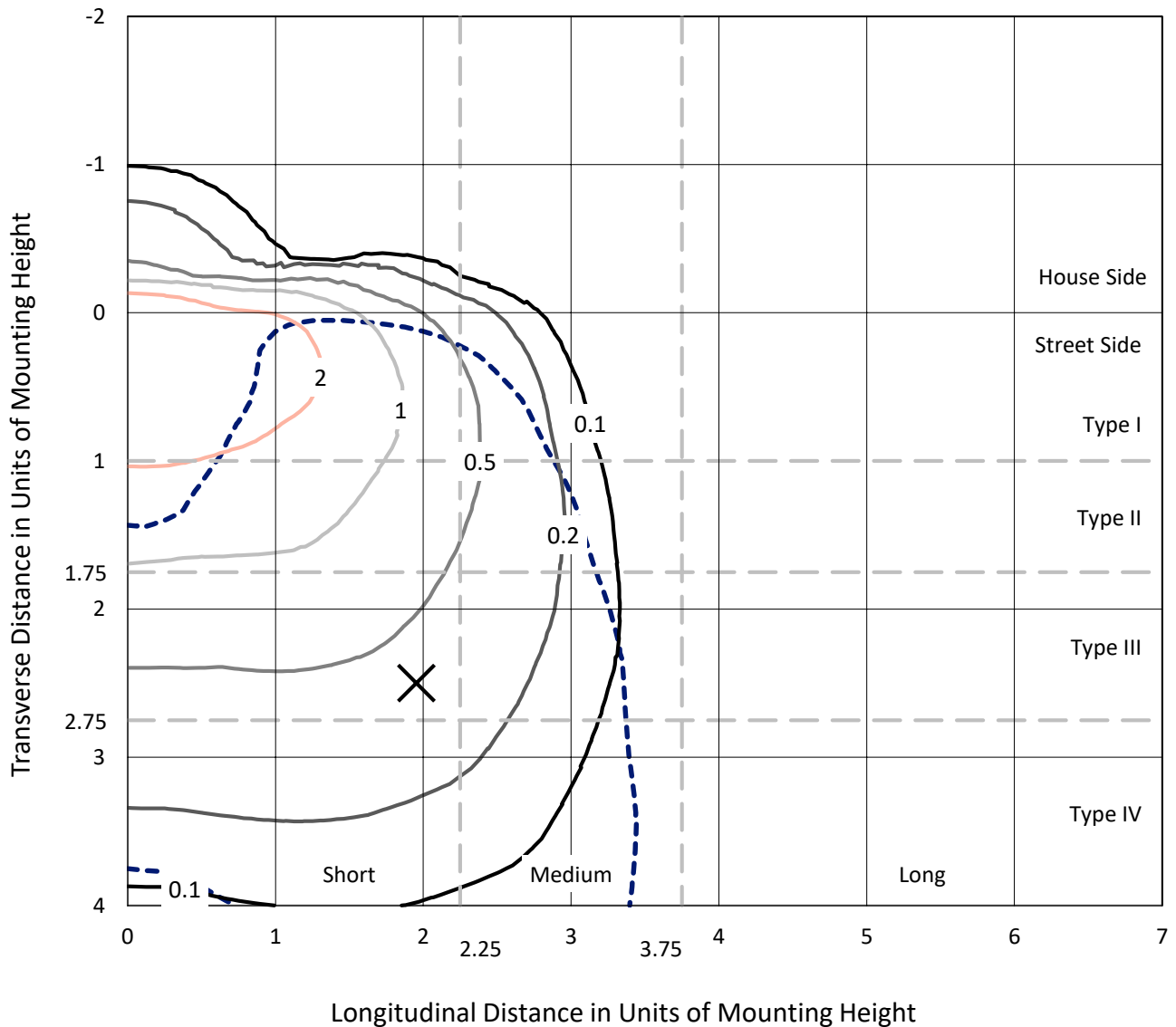




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Iso-Footcandle Lines of Horizontal Illumination

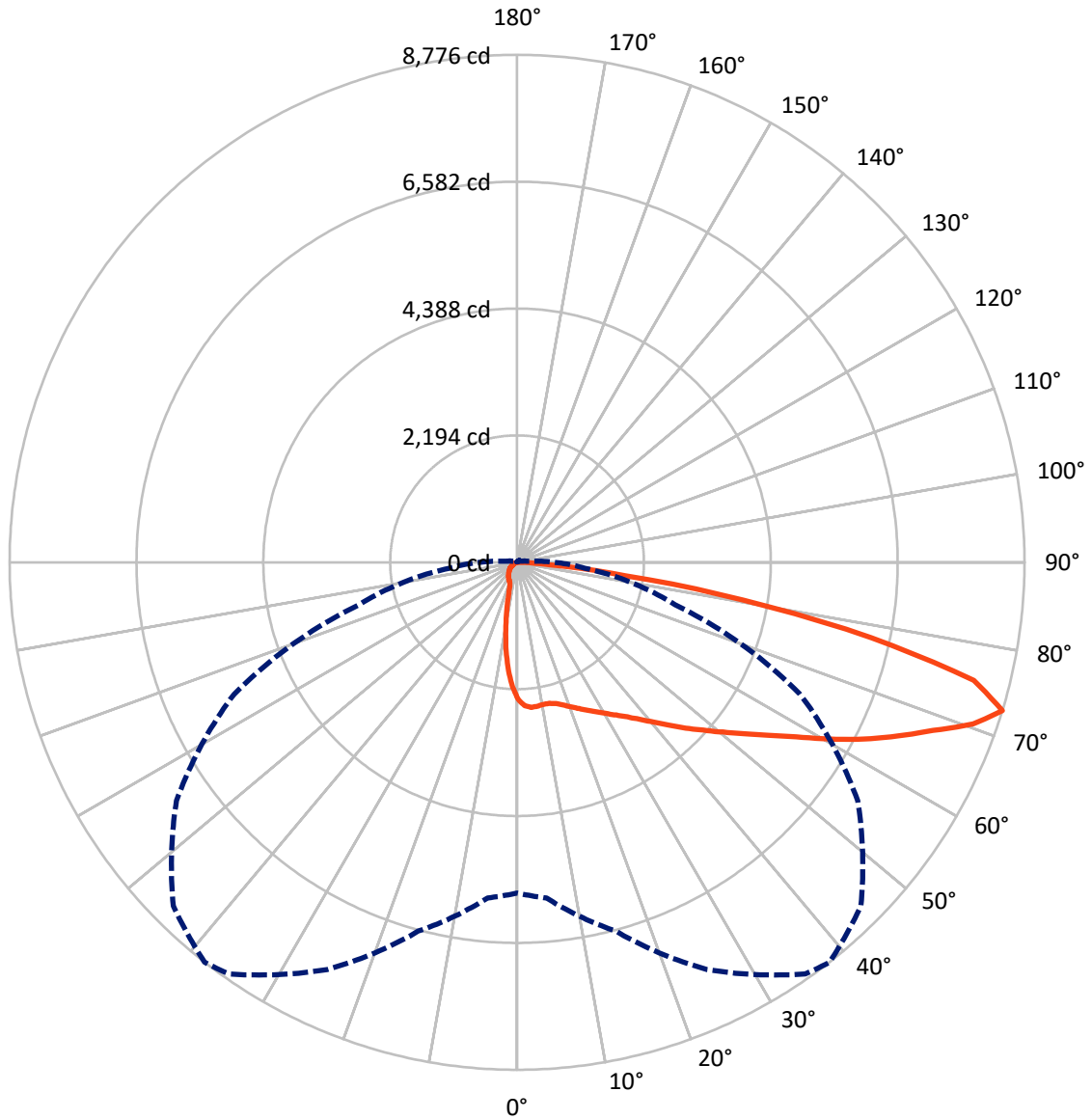
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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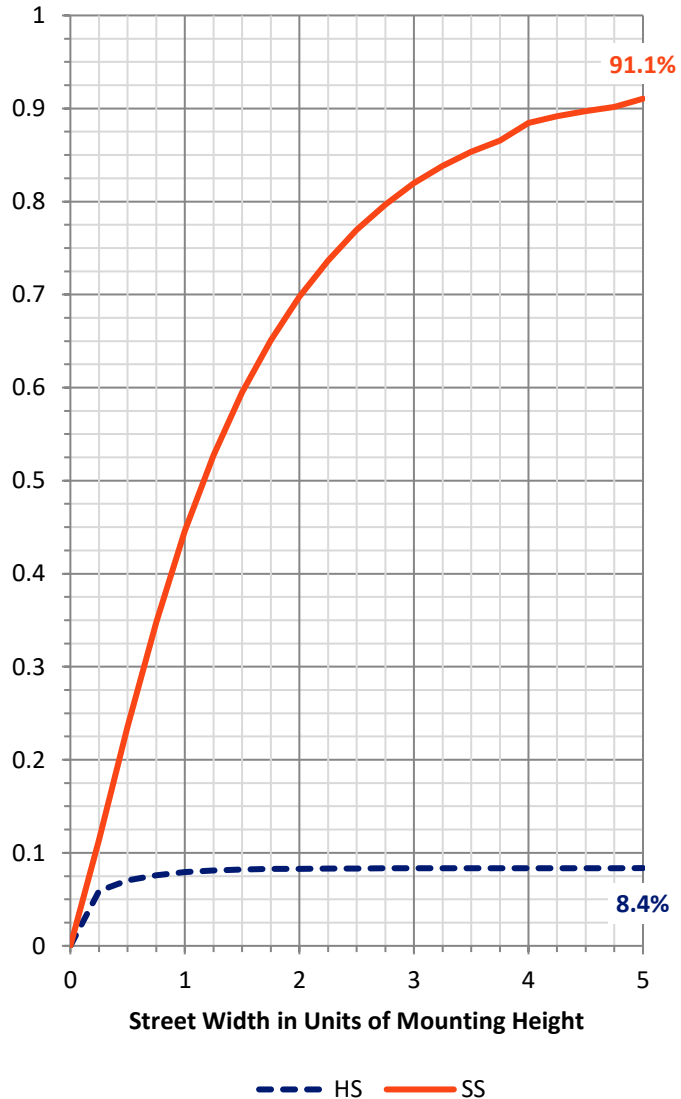
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.2	0.0	1084.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11799.8	0.0	11799.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	12884.0	0.0	12884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	1.6
10°-20°	493.7	3.8
20°-30°	785.3	6.1
30°-40°	1180.5	9.2
40°-50°	1801.0	14.0
50°-60°	2545.4	19.8
60°-70°	3192.8	24.8
70°-80°	2387.3	18.5
80°-90°	296.0	2.3
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°	12884.0	100.0
0°-180°	12884.0	100.0

Coefficient of Utilization

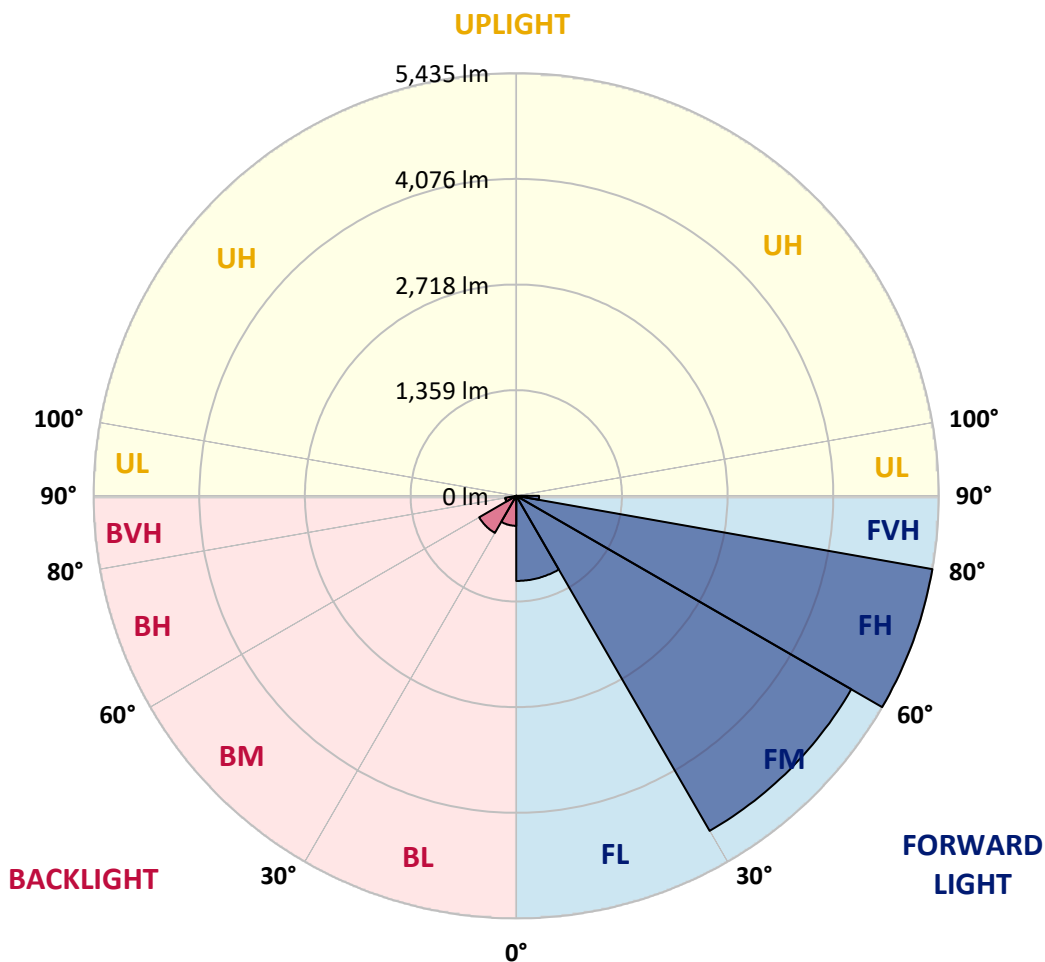


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.8	8.5			
FM (30°-60°)	4976.4	38.6			
FH (60°-80°)	5435.3	42.2			G3/7500
FVH (80°-90°)	293.3	2.3			G3/500
BL (0°-30°)	386.1	3.0	B1/500		
BM (30°-60°)	550.6	4.3	B1/1000		
BH (60°-80°)	144.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3
2.5°	2514.9	2515.4	2509.5	2499.9	2487.6	2481.2	2470.5	2453.3	2435.1	2402.5	2367.2
5°	2566.2	2566.2	2558.7	2545.9	2526.1	2520.2	2499.9	2472.6	2435.1	2382.2	2322.8
7.5°	2560.9	2562.0	2551.8	2538.4	2518.6	2513.3	2488.6	2458.1	2411.6	2347.4	2271.4
10°	2533.1	2535.7	2527.7	2521.3	2503.1	2497.2	2474.2	2443.7	2397.1	2328.7	2241.4
12.5°	2504.7	2507.4	2510.1	2515.9	2504.7	2502.6	2484.4	2458.7	2414.3	2343.1	2244.7
15°	2486.5	2491.9	2511.1	2534.1	2536.8	2534.7	2522.9	2498.8	2453.9	2380.0	2267.7
17.5°	2486.5	2495.1	2535.2	2579.1	2594.6	2596.2	2586.0	2552.3	2498.8	2419.6	2289.1
20°	2507.4	2519.1	2581.8	2643.8	2669.5	2669.5	2649.7	2602.6	2540.0	2455.5	2303.5
22.5°	2560.9	2576.4	2655.1	2726.8	2754.0	2748.2	2721.4	2652.9	2582.8	2496.1	2321.7
25°	2666.3	2678.1	2759.9	2832.2	2848.8	2835.4	2801.7	2713.9	2637.4	2551.3	2354.9
27.5°	2802.2	2803.8	2888.4	2949.3	2939.2	2930.1	2887.8	2790.4	2716.1	2629.9	2412.1
30°	2951.5	2951.5	3025.9	3072.4	3041.4	3033.9	2991.6	2883.0	2816.7	2736.9	2493.5
32.5°	3096.0	3102.4	3162.8	3192.3	3157.5	3150.0	3108.8	3000.2	2950.4	2900.1	2620.3
35°	3235.6	3240.4	3297.7	3313.7	3280.6	3282.7	3253.3	3161.2	3142.5	3136.1	2811.3
37.5°	3371.0	3372.1	3430.4	3440.6	3424.0	3442.2	3444.8	3363.5	3398.3	3450.2	3080.4
40°	3494.6	3495.7	3553.5	3579.7	3608.0	3631.6	3652.4	3609.1	3724.1	3844.5	3401.0
42.5°	3593.6	3604.8	3678.1	3727.9	3802.8	3847.7	3904.5	3902.3	4112.1	4292.9	3788.4
45°	3680.8	3700.1	3802.3	3889.5	4017.9	4089.6	4178.4	4248.0	4548.7	4792.2	4180.6
47.5°	3795.8	3814.0	3930.7	4073.5	4244.8	4338.9	4486.1	4636.5	5028.7	5282.3	4563.7
50°	3958.0	3949.9	4065.0	4269.9	4489.8	4613.4	4823.2	5048.5	5504.9	5709.3	4788.9
52.5°	4130.8	4127.6	4212.7	4483.4	4778.8	4923.3	5200.4	5474.4	5960.2	6003.6	4892.2
55°	4344.8	4321.8	4393.5	4726.9	5121.8	5276.9	5603.3	5896.0	6323.0	6169.4	4944.1
57.5°	4569.0	4531.0	4599.5	4998.2	5508.6	5692.2	6049.6	6307.0	6564.3	6282.9	4943.6
60°	4800.7	4755.8	4837.1	5337.4	5989.1	6201.6	6533.3	6584.7	6789.6	6340.1	4907.2
62.5°	4994.4	4967.7	5088.6	5700.2	6525.8	6734.5	6898.8	6837.2	6979.6	6384.6	4822.1
65°	5199.4	5201.0	5396.3	6123.4	7096.2	7236.9	7250.8	7164.7	7138.5	6375.5	4534.3
67.5°	5476.5	5502.2	5828.1	6698.1	7651.1	7759.7	7758.6	7519.5	7254.6	6013.7	3895.9
70°	5769.7	5830.2	6325.7	7355.7	8256.8	8367.0	8310.3	7745.3	6830.8	4862.8	2757.3
72.5°	5720.5	5825.4	6602.3	7770.4	8691.8	8775.8	8407.1	7190.4	5398.9	2826.3	1174.0
75°	4413.3	4534.8	6053.9	7359.5	8235.4	8159.9	7223.6	5595.3	2950.4	788.7	264.3
77.5°	2331.3	2396.1	3999.2	5606.5	6421.5	6263.6	5088.6	3104.0	899.5	195.3	118.8
80°	1221.0	1236.0	1742.7	3181.0	3963.3	3964.4	3015.7	1363.4	370.8	100.1	79.7
82.5°	653.9	666.7	920.9	1469.9	2076.6	1882.4	1154.7	750.2	215.6	56.7	76.5
85°	157.3	160.0	522.2	671.5	816.5	583.2	343.0	629.8	58.3	33.2	62.1
87.5°	60.5	61.5	193.7	290.5	208.1	134.8	160.5	234.9	7.5	12.8	9.6
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°	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3	2369.3
2.5°	2345.8	2331.9	2297.6	2254.3	2215.8	2187.9	2146.2	2118.9	2100.7	2100.2	2093.2
5°	2286.4	2258.0	2184.2	2096.4	2016.7	1945.0	1860.5	1793.6	1743.8	1735.8	1718.7
7.5°	2222.7	2176.2	2062.7	1925.7	1792.0	1656.1	1498.2	1400.3	1316.3	1276.2	1271.9
10°	2183.7	2118.4	1957.3	1759.3	1549.6	1328.6	1122.1	979.2	875.9	846.5	824.6
12.5°	2175.6	2089.5	1876.0	1603.1	1303.4	1011.3	782.8	630.9	548.5	522.2	515.3
15°	2183.7	2076.1	1807.5	1448.5	1054.1	717.5	525.4	437.2	406.1	398.6	398.1
17.5°	2188.5	2060.1	1729.9	1276.7	812.2	512.6	402.4	376.7	371.9	371.3	372.4
20°	2187.9	2035.4	1637.3	1085.1	604.1	402.9	363.9	358.5	357.4	358.0	357.4
22.5°	2184.2	2006.5	1535.7	887.7	456.4	360.1	347.3	344.1	343.5	343.5	343.5
25°	2191.1	1983.5	1423.8	698.8	376.2	340.3	332.3	329.6	329.1	329.1	328.0
27.5°	2216.3	1970.7	1301.3	537.8	339.8	322.7	316.2	315.7	314.1	313.6	314.6
30°	2257.0	1970.7	1167.0	418.4	317.8	304.5	299.6	298.6	298.0	297.5	298.0
32.5°	2328.7	1985.7	1020.4	347.8	297.0	284.1	280.9	282.5	280.9	280.9	280.9
35°	2458.1	2030.6	866.8	303.4	275.0	264.3	261.1	263.3	262.2	262.2	261.7
37.5°	2647.0	2114.1	712.2	276.6	255.8	244.5	240.2	243.5	242.4	242.4	241.9
40°	2877.1	2235.6	565.0	256.3	237.0	225.3	221.5	223.1	220.5	220.5	221.5
42.5°	3161.2	2389.7	436.6	236.5	218.3	207.1	204.9	203.3	198.5	195.8	196.4
45°	3476.9	2550.2	340.3	217.2	200.7	191.6	188.3	184.1	176.0	170.7	171.2
47.5°	3758.9	2673.8	276.6	198.5	184.6	177.6	172.8	164.8	153.0	146.6	147.1
50°	3907.1	2692.5	235.4	179.8	169.6	162.7	155.7	143.4	129.5	122.5	122.0
52.5°	3945.1	2604.8	204.9	162.7	154.6	146.6	137.5	120.9	105.4	97.9	96.8
55°	3959.0	2471.0	177.6	146.6	138.6	129.5	117.7	99.0	84.5	77.1	76.5
57.5°	3913.0	2271.4	156.2	132.2	122.5	111.3	96.8	79.2	65.3	59.4	59.4
60°	3810.8	2001.2	139.7	116.6	105.9	93.1	78.1	61.5	48.7	43.9	43.9
62.5°	3607.0	1651.3	124.1	100.6	90.4	77.1	63.1	46.6	34.2	31.6	32.1
65°	3222.2	1252.6	108.6	86.1	77.1	63.7	49.2	33.2	23.0	23.0	24.1
67.5°	2627.8	870.0	92.6	73.3	66.3	51.9	37.5	23.0	16.1	18.2	20.3
70°	1739.5	488.0	79.2	60.5	56.7	41.2	27.8	15.5	12.8	17.1	20.9
72.5°	656.5	190.0	66.3	48.7	49.2	31.6	19.8	11.8	11.8	18.7	24.6
75°	183.0	93.1	47.6	35.9	38.5	23.0	14.4	10.2	11.2	21.4	28.9
77.5°	107.6	68.5	31.0	20.9	26.2	16.1	9.6	8.0	9.6	18.2	27.8
80°	86.7	36.4	18.2	10.7	14.4	9.1	6.4	4.8	2.7	7.0	14.4
82.5°	86.7	21.9	8.6	7.5	7.5	4.8	3.2	2.1	0.5	0.0	3.7
85°	58.3	9.1	5.4	4.8	3.7	1.6	1.1	0.5	0.0	0.0	0.0
87.5°	9.6	3.7	2.1	1.1	0.5	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)