

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: P322369

Luminaire Tested: **GLEON-SA5C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18937 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

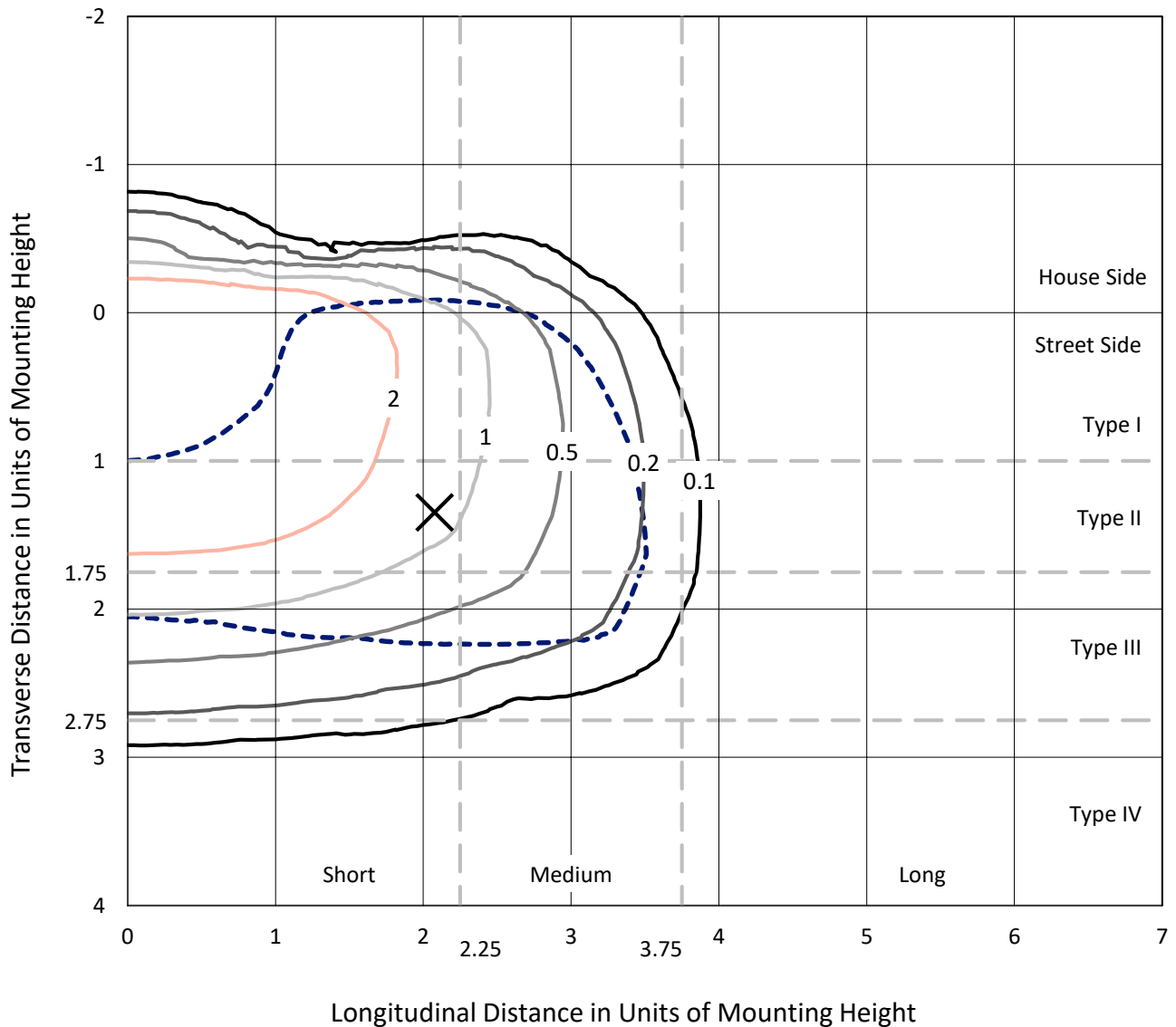
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

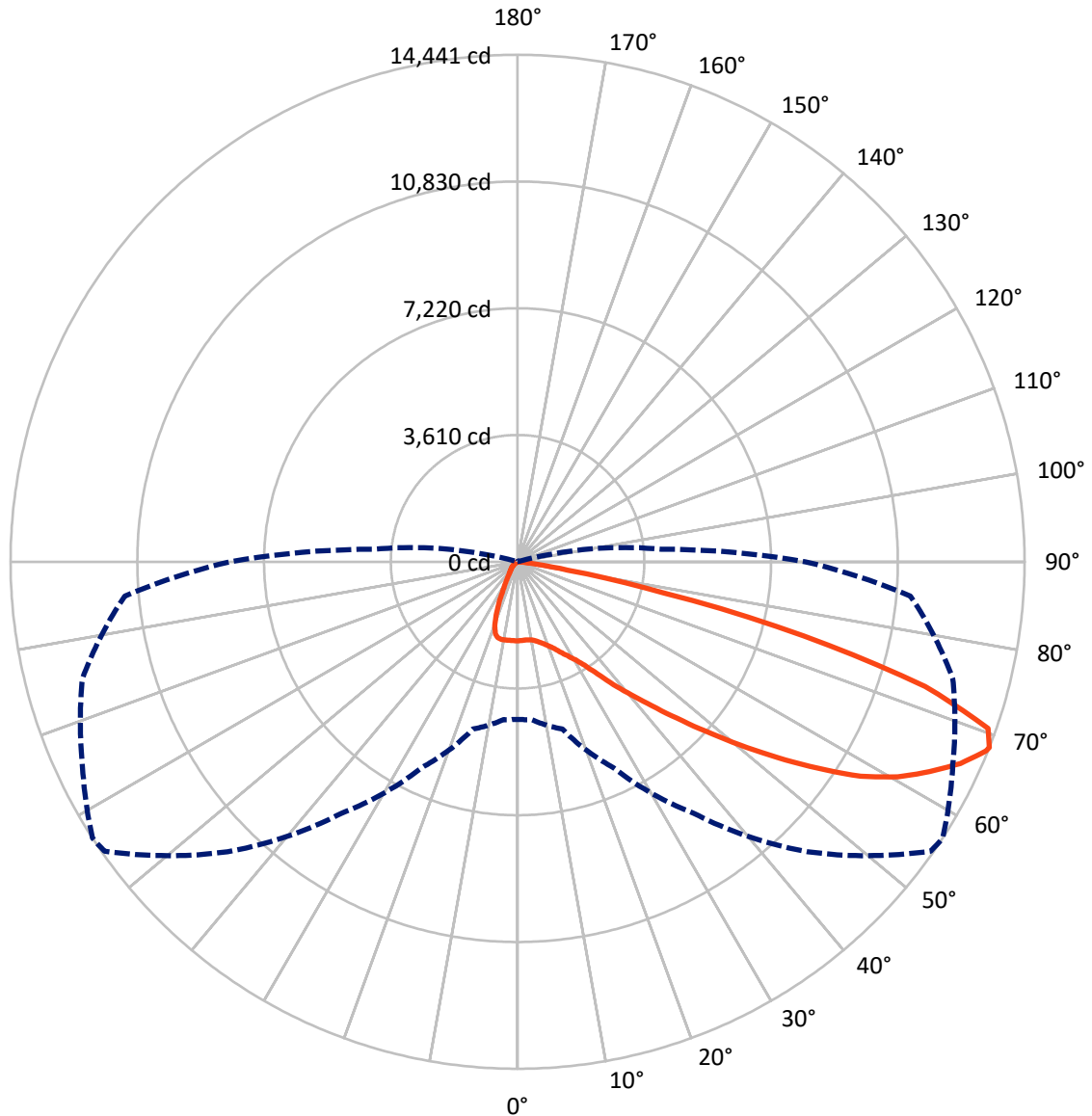
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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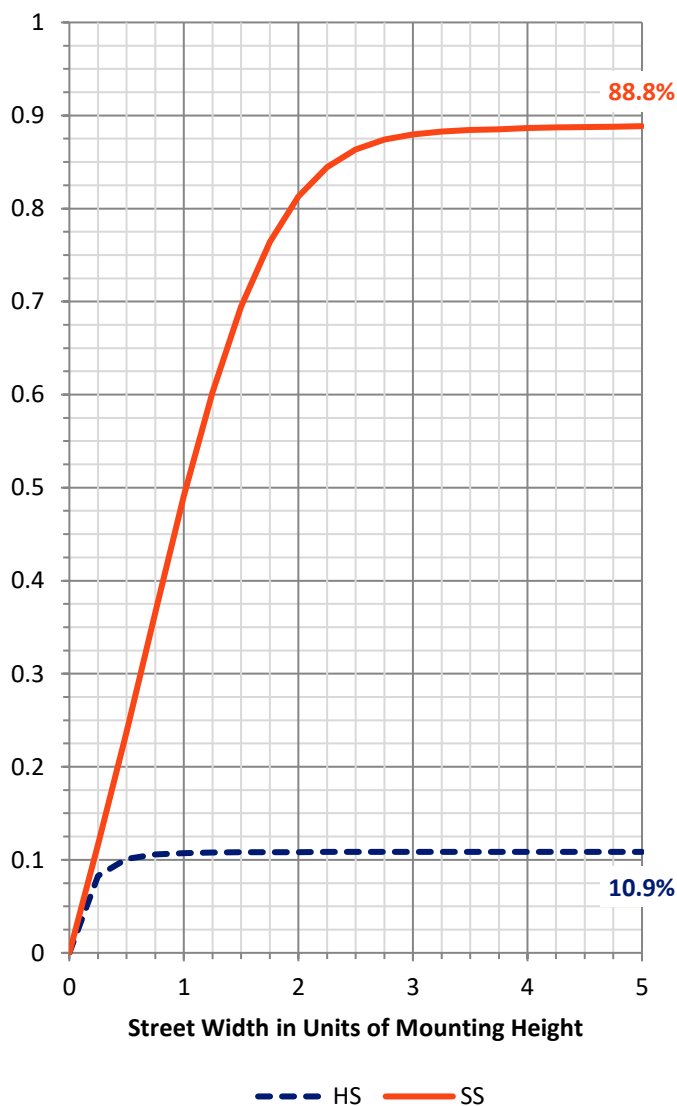
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2076.6	0.0	2076.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16860.4	0.0	16860.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	18937.0	0.0	18937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.1
10°-20°	583.5	3.1
20°-30°	1006.7	5.3
30°-40°	1737.5	9.2
40°-50°	2972.0	15.7
50°-60°	4754.9	25.1
60°-70°	5493.8	29.0
70°-80°	2099.3	11.1
80°-90°	78.7	0.4
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°	18937.0	100.0
0°-180°	18937.0	100.0

Coefficient of Utilization

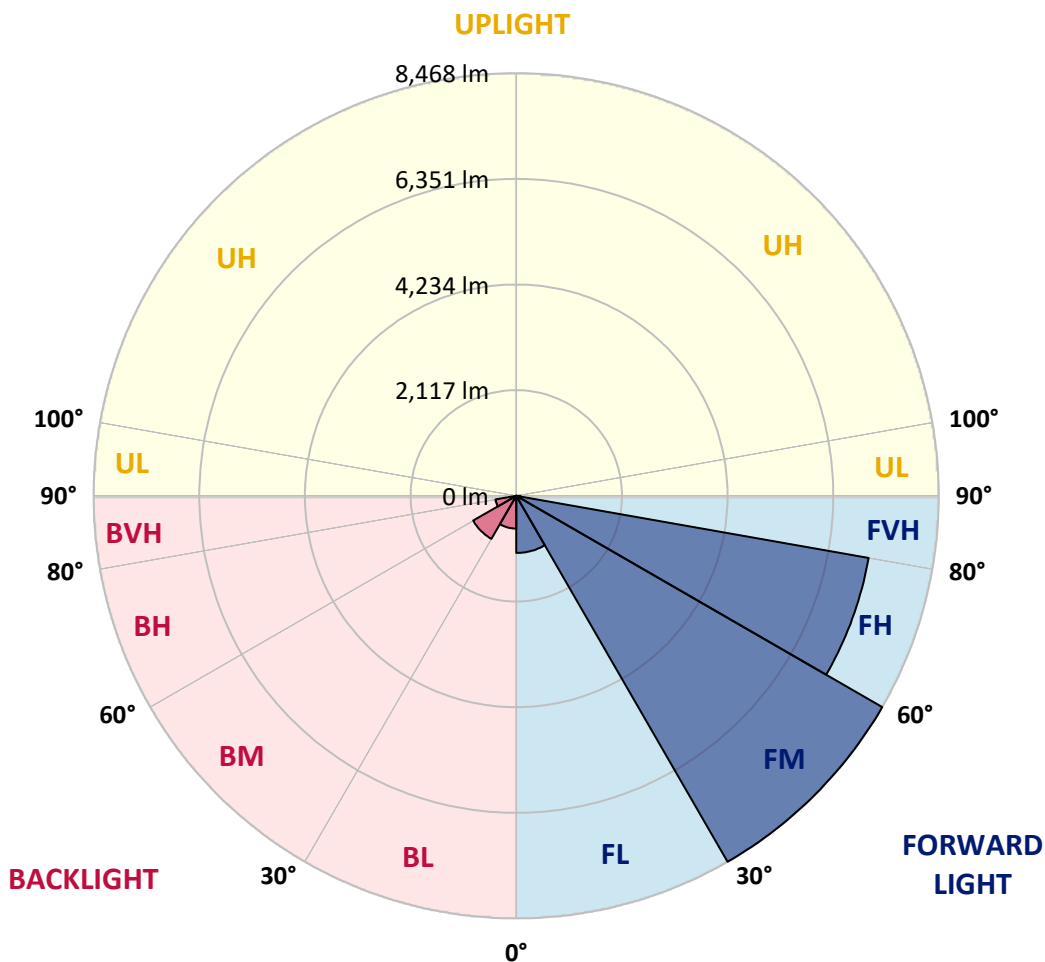


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.6	6.0			
FM (30°-60°)	8468.5	44.7			
FH (60°-80°)	7170.2	37.9			G3/7500
FVH (80°-90°)	77.3	0.4			G1/100
BL (0°-30°)	656.3	3.5	B2/1000		
BM (30°-60°)	996.0	5.3	B1/1000		
BH (60°-80°)	422.9	2.2	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2197.4	2207.2	2214.4	2218.9	2224.2	2235.9	2239.5	2244.8	2247.5	2247.5	2253.8
5°	2110.5	2121.3	2136.5	2149.0	2174.1	2206.3	2229.6	2238.6	2254.7	2269.0	2277.1
7.5°	2029.9	2042.5	2060.4	2089.9	2132.9	2184.8	2233.2	2245.7	2277.1	2307.5	2322.7
10°	1978.0	1987.9	2011.1	2053.2	2109.6	2182.2	2250.2	2265.4	2319.2	2370.2	2398.9
12.5°	1960.1	1969.0	1993.2	2040.7	2110.5	2195.6	2289.6	2312.0	2390.8	2465.1	2505.4
15°	1986.1	1987.9	2013.8	2058.6	2127.5	2228.7	2355.0	2381.8	2481.2	2577.9	2628.1
17.5°	2086.4	2078.3	2091.7	2111.4	2166.0	2272.6	2423.9	2464.2	2596.7	2710.5	2757.9
20°	2337.1	2337.1	2306.6	2252.9	2253.8	2340.7	2517.1	2562.7	2724.8	2856.4	2899.4
22.5°	2766.0	2757.9	2697.0	2565.4	2444.5	2458.0	2630.8	2689.9	2878.8	3019.4	3033.7
25°	3281.7	3271.9	3177.9	2992.5	2783.0	2647.8	2784.8	2852.8	3062.4	3186.8	3157.3
27.5°	3828.0	3819.9	3726.8	3496.7	3198.5	2950.4	2968.3	3032.8	3249.5	3372.2	3278.2
30°	4357.2	4359.8	4267.6	4031.2	3693.6	3336.4	3201.2	3238.8	3431.3	3555.8	3421.4
32.5°	4860.4	4864.0	4784.3	4520.1	4204.9	3785.0	3523.5	3513.7	3642.6	3765.3	3611.3
35°	5309.0	5318.0	5263.3	5058.3	4724.3	4284.6	3941.7	3918.4	3942.6	4081.4	3902.3
37.5°	5741.5	5746.9	5705.7	5532.9	5253.5	4833.5	4470.0	4436.9	4384.9	4491.5	4286.4
40°	6215.2	6201.7	6154.3	5997.6	5757.6	5439.7	5037.7	4980.4	4889.9	4984.9	4791.4
42.5°	6655.7	6640.5	6648.6	6471.3	6268.9	6063.0	5699.4	5600.9	5548.1	5657.3	5411.1
45°	7206.4	7198.4	7225.2	7071.2	6907.3	6757.8	6457.8	6350.4	6327.1	6455.2	6160.6
47.5°	7749.9	7769.6	7852.9	7787.6	7721.3	7589.7	7261.0	7212.7	7227.0	7381.9	6951.2
50°	8203.0	8226.3	8454.6	8529.9	8625.7	8548.7	8219.1	8189.6	8246.0	8385.7	7801.9
52.5°	8530.8	8578.2	8862.1	9208.6	9557.8	9609.8	9281.1	9254.3	9330.4	9351.9	8459.1
55°	8758.2	8800.3	9121.7	9755.7	10466.7	10690.5	10486.4	10382.5	10368.2	10156.0	9150.4
57.5°	8798.5	8794.0	9256.1	10109.4	11179.4	11757.0	11628.1	11526.0	11232.3	10899.2	9942.9
60°	8571.1	8597.0	9133.4	10232.1	11627.2	12563.8	12573.6	12441.1	11983.5	11621.8	10711.1
62.5°	7870.8	7976.5	8518.2	9910.6	11621.8	12888.8	13266.7	13165.5	12618.4	12213.7	11490.2
65°	6735.4	6773.0	7289.7	8809.2	10836.5	12752.7	13890.8	13853.2	13190.6	12788.5	11890.4
67.5°	4918.6	4837.1	5379.7	6936.9	9174.6	11959.4	14338.5	14386.0	13632.0	12906.7	11464.2
68°	4488.8	4513.0	4935.6	6474.0	8739.4	11679.1	14368.1	14440.6	13675.9	12829.7	11231.4
70°	2675.5	2722.1	3099.1	4457.4	6648.6	10093.3	14049.3	14214.9	13414.4	12035.5	9714.5
72.5°	683.2	738.7	1095.1	1995.0	3797.5	7111.5	11860.0	12140.2	11646.9	9763.8	6558.1
75°	281.2	295.5	391.3	657.2	1414.8	3203.8	7817.1	8417.0	8074.1	5845.4	2963.9
77.5°	194.3	204.2	251.6	364.4	612.5	1086.2	3832.4	4265.8	3843.2	1995.0	646.5
80°	139.7	147.7	180.0	242.7	351.9	387.7	1249.1	1444.3	1147.0	437.9	160.3
82.5°	83.3	89.5	134.3	172.8	214.0	185.4	310.7	352.8	332.2	217.6	71.6
85°	41.2	48.4	90.4	123.6	115.5	77.9	94.9	105.7	130.7	132.5	38.5
87.5°	2.7	5.4	52.8	74.3	32.2	17.9	27.8	34.0	46.6	65.4	16.1
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°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2256.5	2257.4	2251.1	2248.4	2250.2	2239.5	2235.0	2236.8	2236.8	2239.5	2235.0
5°	2278.9	2278.9	2268.1	2253.8	2245.7	2225.1	2211.7	2208.1	2205.4	2203.7	2200.1
7.5°	2327.2	2321.8	2303.0	2271.7	2244.8	2200.1	2166.0	2148.1	2139.2	2135.6	2132.9
10°	2405.1	2395.3	2363.9	2305.7	2243.9	2164.3	2089.9	2037.1	1993.2	1975.3	1964.6
12.5°	2509.9	2495.6	2442.7	2346.0	2237.7	2090.8	1929.7	1774.7	1630.6	1571.5	1541.9
15°	2630.8	2610.2	2526.9	2380.1	2201.0	1925.2	1575.1	1303.7	1104.1	1028.8	996.6
17.5°	2753.4	2726.6	2600.3	2401.5	2090.8	1582.2	1105.0	834.5	701.1	665.3	652.8
20°	2877.0	2837.6	2663.9	2385.4	1841.9	1140.8	728.9	609.8	571.3	560.5	557.0
22.5°	2994.3	2933.4	2721.2	2322.7	1458.7	765.6	576.7	539.0	526.5	520.2	518.5
25°	3096.4	3011.3	2771.4	2129.3	1032.4	578.4	519.3	506.8	490.7	479.1	480.0
27.5°	3192.2	3089.2	2801.8	1810.6	688.6	494.3	480.8	463.8	434.3	417.3	417.3
30°	3307.7	3193.1	2824.2	1393.3	506.8	437.0	426.2	400.3	360.0	337.6	337.6
32.5°	3481.4	3350.7	2809.9	977.8	420.0	384.1	359.1	323.3	279.4	257.9	257.0
35°	3747.4	3594.3	2707.8	641.1	370.7	334.0	293.7	249.8	211.3	193.4	192.5
37.5°	4105.5	3920.2	2478.5	458.5	332.2	287.4	239.1	190.7	162.1	150.4	149.5
40°	4570.3	4299.0	2150.8	371.6	296.4	242.7	184.5	147.7	128.0	119.1	120.0
42.5°	5128.1	4704.6	1757.7	320.6	261.5	199.7	144.2	116.4	103.9	97.6	95.8
45°	5747.8	5104.8	1345.8	285.6	226.5	161.2	112.8	92.2	82.4	78.8	78.8
47.5°	6429.2	5494.4	985.0	255.2	188.9	124.5	90.4	75.2	67.2	64.5	63.6
50°	7047.9	5764.8	710.1	223.0	154.9	98.5	73.4	62.7	57.3	53.7	53.7
52.5°	7563.7	5849.8	522.9	188.0	125.4	78.8	60.9	53.7	48.4	45.7	45.7
55°	8017.7	5814.9	388.6	154.9	101.2	64.5	51.9	45.7	41.2	38.5	38.5
57.5°	8452.9	5702.1	290.1	126.3	81.5	51.9	43.9	38.5	34.0	32.2	32.2
60°	8808.3	5514.1	215.8	102.1	65.4	42.1	36.7	31.3	27.8	25.1	25.1
62.5°	9096.7	5306.3	158.5	84.2	51.9	33.1	28.7	26.0	20.6	17.9	17.9
65°	9098.5	4961.6	119.1	69.8	40.3	26.0	21.5	20.6	13.4	10.7	9.8
67.5°	8440.3	4277.5	91.3	60.0	31.3	19.7	16.1	17.0	7.2	4.5	3.6
68°	8201.2	4103.8	86.0	59.1	29.5	18.8	15.2	17.0	6.3	3.6	2.7
70°	6914.5	3264.7	68.9	57.3	26.0	14.3	12.5	17.0	5.4	2.7	1.8
72.5°	4422.5	1894.7	51.0	45.7	19.7	10.7	8.1	15.2	5.4	1.8	0.9
75°	1882.2	587.4	34.9	32.2	11.6	8.1	5.4	9.8	3.6	0.9	0.0
77.5°	396.7	132.5	20.6	19.7	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.1	38.5	10.7	9.8	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.2	15.2	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	0.9	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)