

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: P383122

Luminaire Tested: **GLEON-SA4C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383122
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-SA4C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 19369.7 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

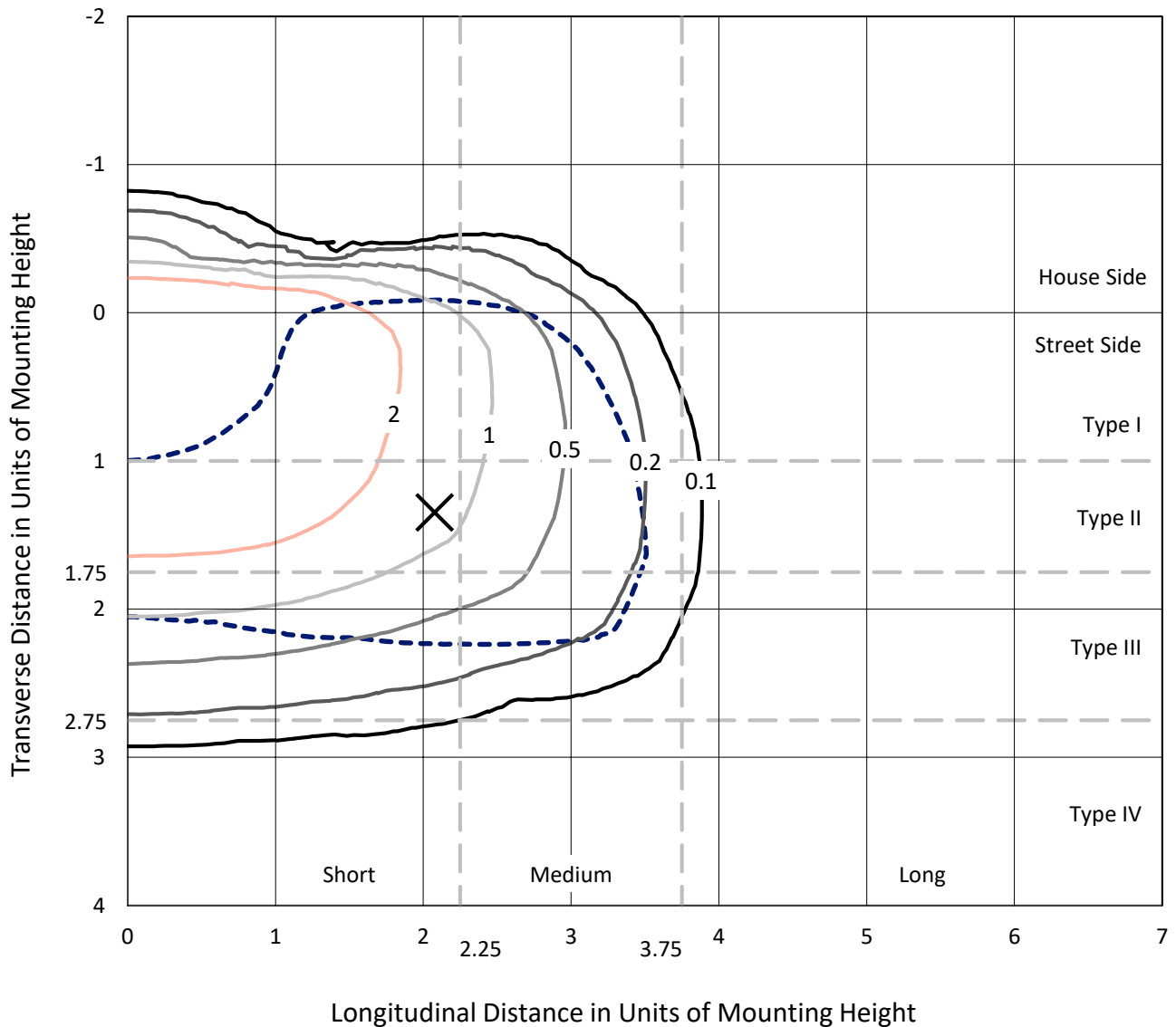
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

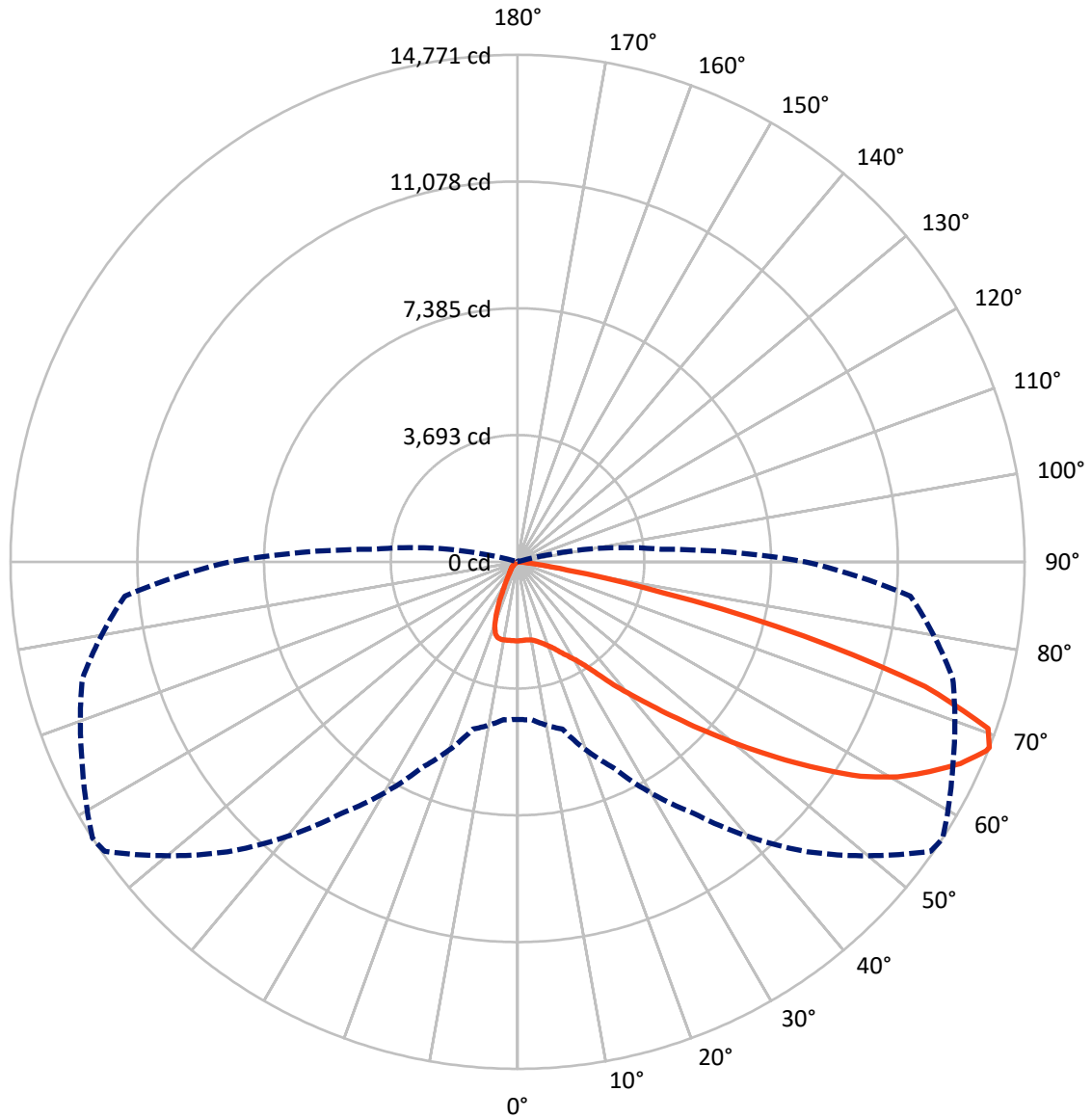
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - 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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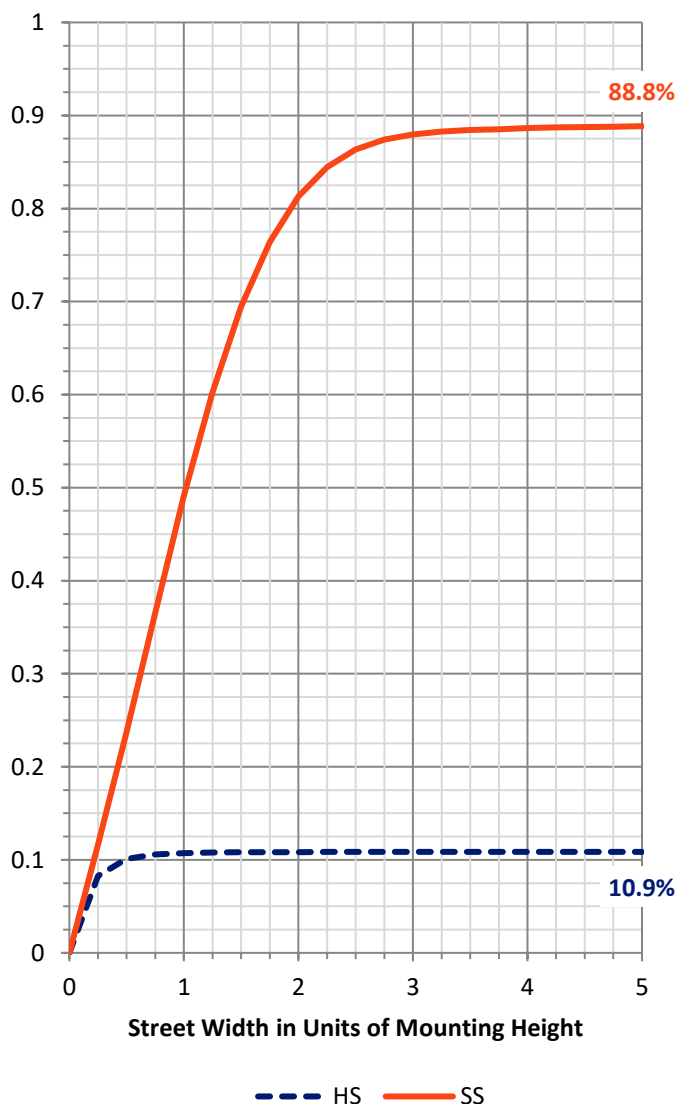
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.0	0.0	2124.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	17245.7	0.0	17245.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	19369.7	0.0	19369.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	1.1
10°-20°	596.9	3.1
20°-30°	1029.7	5.3
30°-40°	1777.2	9.2
40°-50°	3039.9	15.7
50°-60°	4863.6	25.1
60°-70°	5619.3	29.0
70°-80°	2147.2	11.1
80°-90°	80.5	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°	19369.7	100.0
0°-180°	19369.7	100.0

Coefficient of Utilization



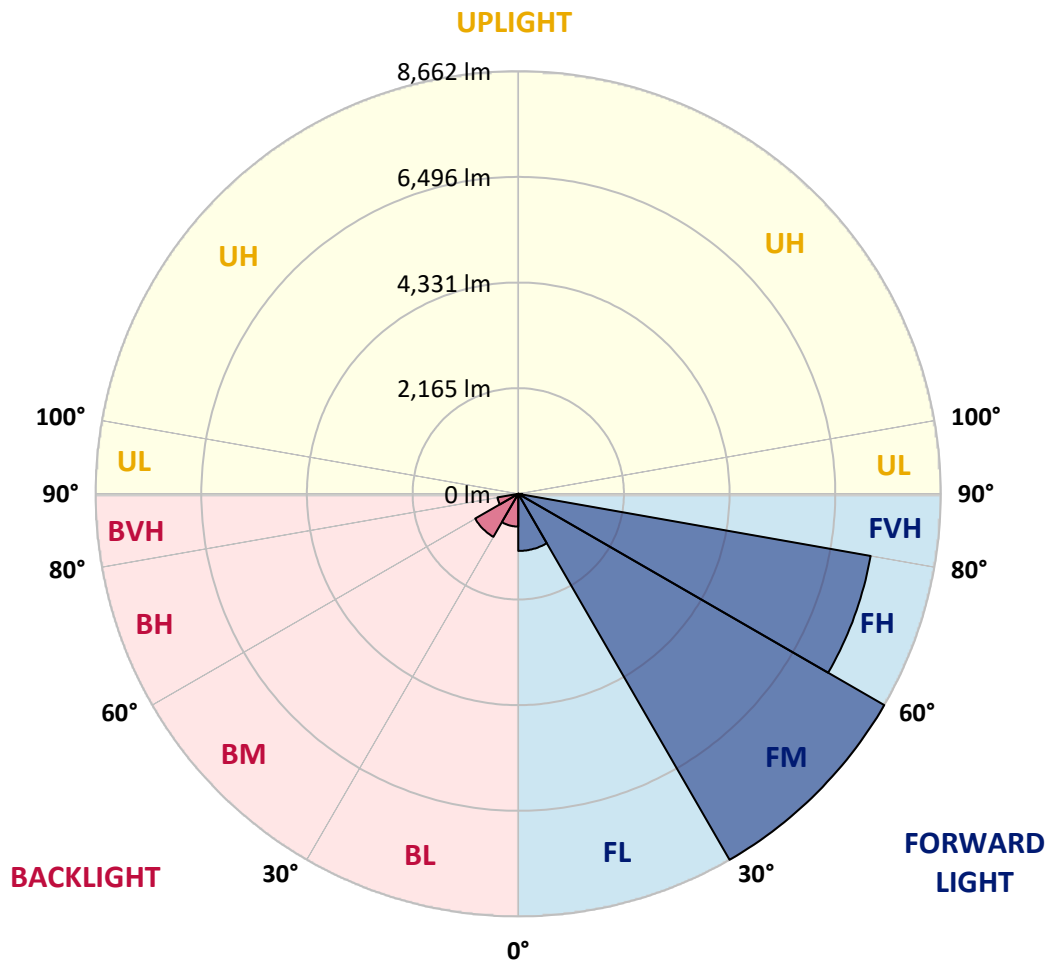
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.7	6.0			
FM (30°-60°)	8661.9	44.7			
FH (60°-80°)	7334.0	37.9			G3/7500
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	671.3	3.5	B2/1000		
BM (30°-60°)	1018.7	5.3	B2/2500		
BH (60°-80°)	432.6	2.2	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2247.5	2257.7	2265.0	2269.5	2275.0	2286.9	2290.7	2296.2	2298.9	2298.9	2305.3
5°	2158.8	2169.8	2185.3	2198.2	2223.8	2256.8	2280.5	2289.7	2306.2	2320.9	2329.1
7.5°	2076.3	2089.2	2107.4	2137.7	2181.7	2234.8	2284.2	2297.0	2329.1	2360.3	2375.8
10°	2023.2	2033.3	2057.0	2100.2	2157.8	2232.0	2301.7	2317.2	2372.2	2424.4	2453.7
12.5°	2004.9	2014.0	2038.8	2087.3	2158.8	2245.8	2341.9	2364.8	2445.4	2521.4	2562.7
15°	2031.4	2033.3	2059.8	2105.7	2176.2	2279.7	2408.8	2436.3	2537.9	2636.8	2688.2
17.5°	2134.0	2125.8	2139.5	2159.7	2215.5	2324.5	2479.3	2520.5	2656.1	2772.4	2820.9
20°	2390.4	2390.4	2359.3	2304.4	2305.3	2394.2	2574.5	2621.3	2787.0	2921.7	2965.7
22.5°	2829.2	2820.9	2758.7	2624.0	2500.4	2514.2	2690.9	2751.3	2944.6	3088.4	3103.0
25°	3356.7	3346.7	3250.4	3060.9	2846.6	2708.3	2848.4	2918.0	3132.3	3259.7	3229.4
27.5°	3915.4	3907.2	3811.9	3576.6	3271.6	3017.8	3036.2	3102.1	3323.8	3449.2	3353.1
30°	4456.7	4459.5	4365.1	4123.3	3778.1	3412.6	3274.3	3312.8	3509.7	3636.9	3499.6
32.5°	4971.5	4975.1	4893.6	4623.4	4301.0	3871.4	3604.1	3593.9	3725.8	3851.3	3693.8
35°	5430.3	5439.5	5383.6	5173.8	4832.2	4382.6	4031.7	4007.9	4032.7	4174.6	3991.4
37.5°	5872.7	5878.2	5836.1	5659.2	5373.5	4944.0	4572.1	4538.2	4485.1	4594.1	4384.3
40°	6357.2	6343.5	6294.9	6134.6	5889.2	5564.0	5152.8	5094.2	5001.7	5098.7	4900.9
42.5°	6807.8	6792.2	6800.5	6619.1	6412.1	6201.5	5829.6	5728.9	5674.8	5786.6	5534.7
45°	7371.1	7362.9	7390.3	7232.8	7065.1	6912.2	6605.4	6495.5	6471.6	6602.6	6301.3
47.5°	7927.0	7947.1	8032.4	7965.5	7897.7	7763.1	7426.9	7377.5	7392.1	7550.6	7110.0
50°	8390.4	8414.3	8647.8	8724.8	8822.8	8744.0	8406.9	8376.8	8434.4	8577.3	7980.1
52.5°	8725.7	8774.2	9064.5	9419.0	9776.2	9829.3	9493.2	9465.7	9543.5	9565.5	8652.4
55°	8958.3	9001.4	9330.2	9978.6	10705.8	10934.8	10725.9	10619.7	10605.1	10388.0	9359.4
57.5°	8999.5	8994.9	9467.5	10340.4	11434.8	12025.6	11893.7	11789.3	11488.9	11148.2	10170.0
60°	8766.9	8793.4	9342.0	10465.8	11892.8	12850.8	12860.9	12725.3	12257.3	11887.3	10955.8
62.5°	8050.6	8158.8	8712.9	10137.0	11887.3	13183.3	13569.8	13466.3	12906.7	12492.7	11752.7
65°	6889.4	6927.7	7456.3	9010.5	11084.1	13044.1	14208.2	14169.7	13492.0	13080.7	12162.1
67.5°	5031.0	4947.6	5502.7	7095.4	9384.2	12232.6	14666.1	14714.6	13943.5	13201.6	11726.1
68°	4591.3	4616.1	5048.3	6621.9	8939.0	11945.9	14696.4	14770.5	13988.4	13122.8	11488.0
70°	2736.7	2784.3	3169.9	4559.3	6800.5	10323.9	14370.3	14539.7	13721.0	12310.5	9936.4
72.5°	698.8	755.6	1120.1	2040.6	3884.3	7274.0	12131.0	12417.6	11913.0	9986.8	6708.0
75°	287.6	302.3	400.3	672.3	1447.1	3277.1	7995.7	8609.4	8258.5	5979.0	3031.6
77.5°	198.8	208.9	257.4	372.8	626.5	1111.0	3920.0	4363.3	3931.0	2040.6	661.3
80°	142.9	151.1	184.1	248.2	359.9	396.6	1277.7	1477.3	1173.3	447.9	164.0
82.5°	85.1	91.6	137.4	176.8	218.9	189.6	317.8	360.9	339.8	222.5	73.3
85°	42.1	49.5	92.5	126.4	118.1	79.6	97.1	108.1	133.7	135.5	39.4
87.5°	2.7	5.5	54.0	76.0	33.0	18.4	28.4	34.8	47.6	66.9	16.5
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°	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7	2301.7
2.5°	2308.0	2308.9	2302.5	2299.8	2301.7	2290.7	2286.0	2287.9	2287.9	2290.7	2286.0
5°	2330.9	2330.9	2319.9	2305.3	2297.0	2276.0	2262.3	2258.5	2255.8	2254.0	2250.3
7.5°	2380.4	2374.9	2355.7	2323.7	2296.2	2250.3	2215.5	2197.2	2188.0	2184.4	2181.7
10°	2460.0	2450.0	2417.9	2358.4	2295.2	2213.7	2137.7	2083.7	2038.8	2020.4	2009.4
12.5°	2567.3	2552.6	2498.5	2399.7	2288.8	2138.6	1973.8	1815.3	1667.8	1607.4	1577.2
15°	2690.9	2669.8	2584.7	2434.4	2251.3	1969.2	1611.0	1333.5	1129.3	1052.4	1019.4
17.5°	2816.3	2788.9	2659.8	2456.4	2138.6	1618.4	1130.2	853.6	717.1	680.5	667.6
20°	2942.8	2902.4	2724.8	2439.9	1884.0	1166.9	745.5	623.8	584.4	573.4	569.6
22.5°	3062.7	3000.4	2783.4	2375.8	1492.0	783.1	589.9	551.4	538.5	532.1	530.3
25°	3167.2	3080.2	2834.7	2178.0	1056.0	591.6	531.3	518.4	501.9	490.0	490.9
27.5°	3265.2	3159.8	2865.8	1851.9	704.3	505.6	491.9	474.4	444.2	426.8	426.8
30°	3383.3	3266.1	2888.7	1425.1	518.4	447.0	436.0	409.4	368.1	345.3	345.3
32.5°	3560.9	3427.3	2874.1	1000.1	429.5	392.9	367.3	330.6	285.8	263.8	262.9
35°	3833.0	3676.4	2769.7	655.8	379.1	341.6	300.4	255.5	216.1	197.9	196.9
37.5°	4199.3	4009.8	2535.2	468.9	339.8	294.0	244.5	195.1	165.8	153.9	153.0
40°	4674.7	4397.2	2199.9	380.1	303.1	248.2	188.6	151.1	131.0	121.8	122.7
42.5°	5245.3	4812.1	1797.9	327.9	267.4	204.3	147.5	119.1	106.3	99.9	98.0
45°	5879.1	5221.5	1376.5	292.1	231.7	164.9	115.4	94.4	84.3	80.6	80.6
47.5°	6576.1	5619.9	1007.5	261.0	193.3	127.3	92.5	76.9	68.7	66.0	65.0
50°	7209.0	5896.5	726.3	228.0	158.5	100.8	75.1	64.1	58.6	55.0	55.0
52.5°	7736.5	5983.5	534.9	192.4	128.2	80.6	62.3	55.0	49.5	46.7	46.7
55°	8200.9	5947.7	397.5	158.5	103.5	66.0	53.1	46.7	42.1	39.4	39.4
57.5°	8646.0	5832.4	296.8	129.1	83.4	53.1	44.9	39.4	34.8	33.0	33.0
60°	9009.6	5640.1	220.7	104.4	66.9	43.0	37.5	32.0	28.4	25.6	25.6
62.5°	9304.5	5427.6	162.1	86.1	53.1	33.9	29.3	26.5	21.1	18.4	18.4
65°	9306.3	5075.0	121.8	71.4	41.2	26.5	22.0	21.1	13.7	11.0	10.1
67.5°	8633.1	4375.2	93.4	61.4	32.0	20.1	16.5	17.4	7.4	4.6	3.6
68°	8388.6	4197.6	87.9	60.5	30.2	19.2	15.6	17.4	6.4	3.6	2.7
70°	7072.5	3339.3	70.5	58.6	26.5	14.6	12.9	17.4	5.5	2.7	1.9
72.5°	4523.6	1938.0	52.2	46.7	20.1	11.0	8.2	15.6	5.5	1.9	0.9
75°	1925.2	600.8	35.7	33.0	11.9	8.2	5.5	10.1	3.6	0.9	0.0
77.5°	405.8	135.5	21.1	20.1	8.2	5.5	3.6	2.7	0.9	0.0	0.0
80°	104.4	39.4	11.0	10.1	4.6	2.7	1.9	0.0	0.0	0.0	0.0
82.5°	33.0	15.6	6.4	4.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	9.1	3.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	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)