

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: P382941

Luminaire Tested: **GLEON-SA3A-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382941
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-SA3A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 12983 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

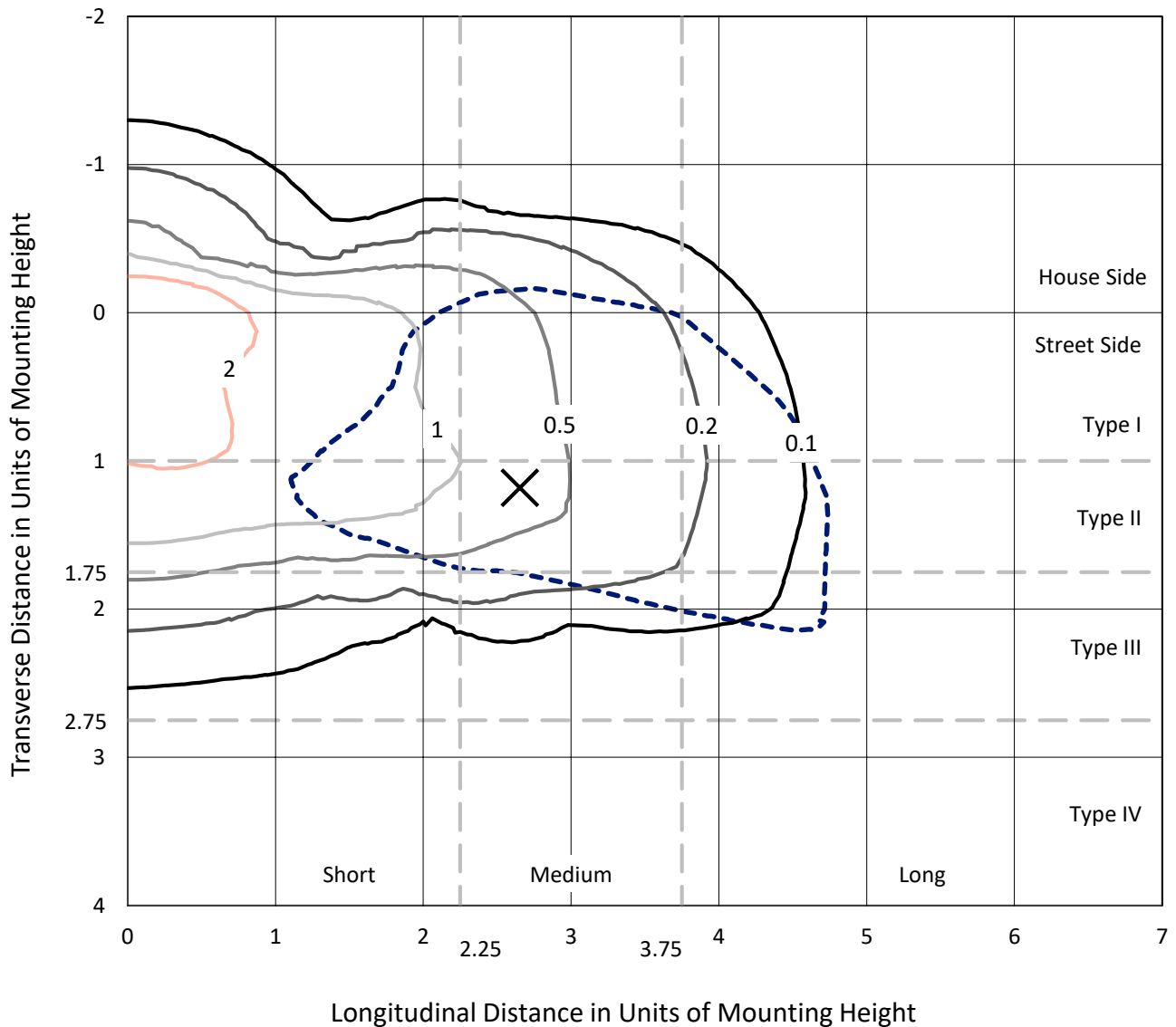
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

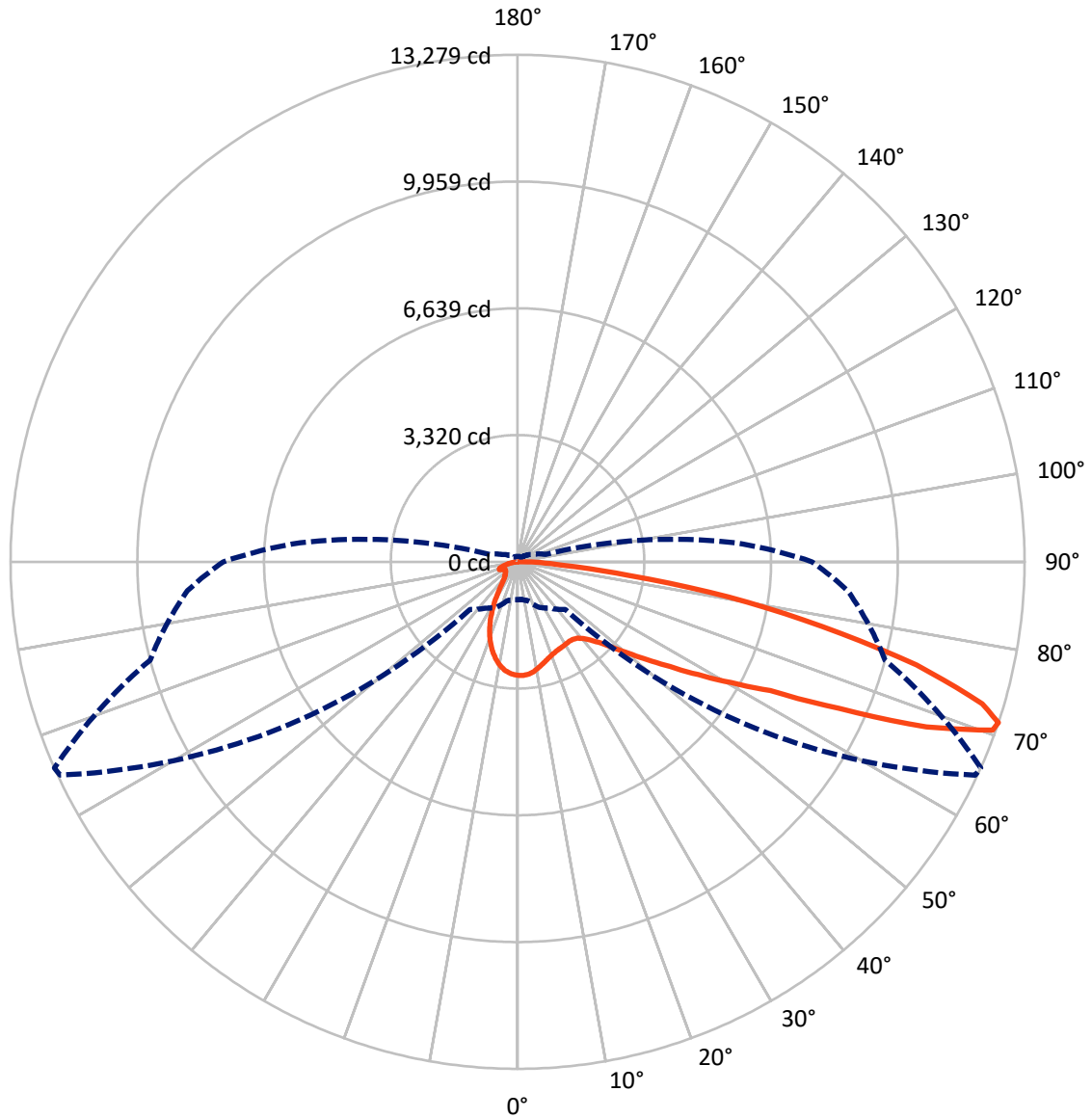
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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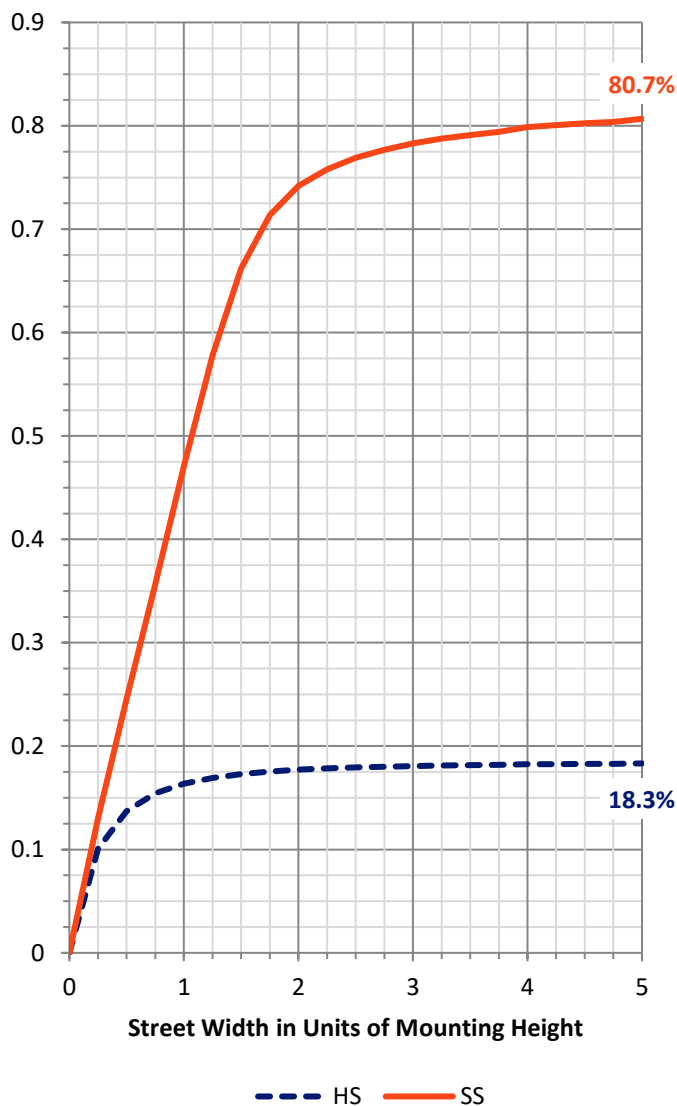
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2406.1	0.0	2406.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10576.9	0.0	10576.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	12983.0	0.0	12983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	2.0
10°-20°	627.9	4.8
20°-30°	843.4	6.5
30°-40°	1109.5	8.5
40°-50°	1614.1	12.4
50°-60°	2521.3	19.4
60°-70°	3158.4	24.3
70°-80°	2409.1	18.6
80°-90°	437.5	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°	12983.0	100.0
0°-180°	12983.0	100.0

Coefficient of Utilization

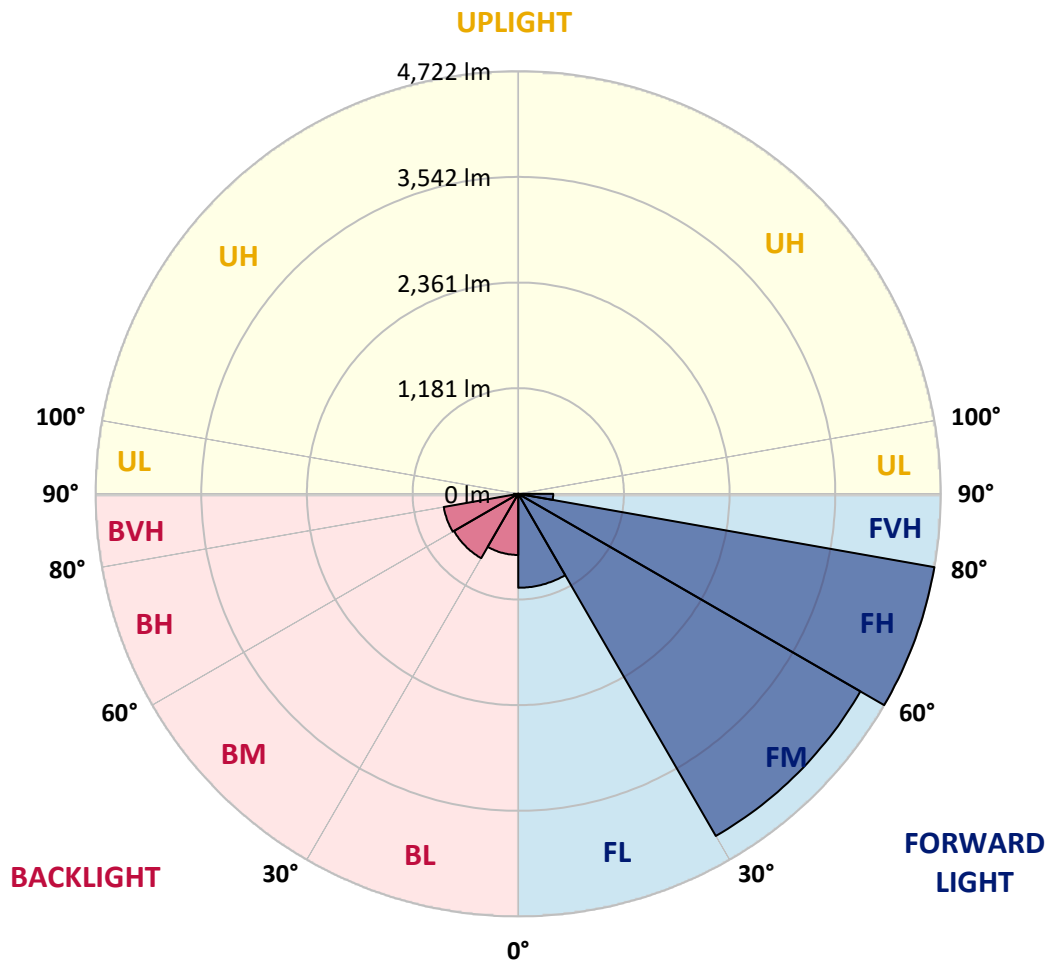


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.9	8.1			
FM (30°-60°)	4414.9	34.0			
FH (60°-80°)	4722.0	36.4			G2/5000
FVH (80°-90°)	390.1	3.0			G3/500
BL (0°-30°)	683.3	5.3	B2/1000		
BM (30°-60°)	830.0	6.4	B1/1000		
BH (60°-80°)	845.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	47.4	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°	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2
2.5°	2919.0	2914.5	2927.9	2941.9	2947.2	2956.2	2969.7	2977.3	2976.9	2978.2	2973.7
5°	2725.3	2719.6	2746.5	2768.4	2810.6	2858.1	2915.8	2957.1	2958.0	2981.3	2987.6
7.5°	2542.0	2538.0	2568.9	2604.3	2653.2	2725.8	2819.5	2908.3	2913.6	2976.9	2998.8
10°	2395.0	2394.1	2424.2	2462.7	2519.6	2600.8	2708.4	2838.3	2846.4	2955.3	3000.6
12.5°	2280.2	2282.0	2308.0	2352.0	2412.1	2496.7	2613.3	2759.9	2772.8	2921.2	2990.3
15°	2195.6	2202.7	2223.8	2268.1	2327.3	2413.4	2533.1	2687.2	2707.0	2883.1	2984.5
17.5°	2147.1	2155.2	2169.9	2206.7	2262.4	2345.3	2458.6	2627.6	2645.6	2854.0	2984.9
20°	2132.8	2139.5	2148.1	2170.4	2217.5	2292.8	2399.9	2573.9	2593.1	2830.7	2989.4
22.5°	2161.0	2165.9	2166.9	2165.0	2193.7	2255.2	2357.4	2534.4	2555.0	2815.5	2992.5
25°	2221.6	2228.3	2223.3	2206.7	2197.3	2235.0	2335.4	2508.4	2529.1	2804.2	2986.3
27.5°	2312.6	2313.4	2309.4	2287.9	2243.5	2237.2	2328.7	2493.2	2512.9	2791.3	2973.2
30°	2436.3	2442.1	2434.9	2405.7	2333.2	2273.1	2336.7	2478.4	2496.3	2774.7	2952.2
32.5°	2581.0	2595.4	2594.9	2564.5	2460.5	2353.3	2370.0	2469.4	2483.3	2757.2	2926.6
35°	2731.2	2751.0	2787.7	2774.7	2646.1	2480.2	2433.6	2483.8	2493.2	2755.0	2908.7
37.5°	2887.1	2906.9	2982.6	3017.7	2867.0	2661.7	2534.0	2534.4	2538.9	2782.3	2907.4
40°	3050.4	3071.4	3185.2	3276.3	3153.5	2891.7	2695.8	2640.2	2635.3	2849.5	2933.8
42.5°	3279.0	3297.8	3434.5	3550.6	3471.2	3186.2	2919.5	2803.4	2793.1	2981.3	3018.5
45°	3568.1	3584.2	3729.5	3853.6	3812.8	3522.4	3200.5	3027.9	3026.1	3201.0	3190.2
47.5°	3911.8	3924.4	4054.8	4175.0	4189.8	3909.2	3553.8	3374.4	3345.3	3502.2	3456.0
50°	4270.0	4283.9	4372.7	4501.8	4611.6	4426.9	4008.3	3798.9	3759.9	3899.8	3832.6
52.5°	4507.2	4525.6	4602.7	4766.3	5085.9	4994.4	4545.7	4313.5	4254.4	4381.6	4330.1
55°	4401.4	4442.6	4560.5	4822.7	5465.1	5861.3	5208.7	4913.7	4846.9	4952.8	4922.2
57.5°	3920.4	3976.9	4137.8	4542.6	5518.4	6625.2	6211.0	5620.6	5573.5	5543.1	5557.0
60°	3041.4	3095.6	3295.1	3822.7	5146.8	7182.8	7719.4	6492.0	6423.9	6135.6	6148.2
62.5°	2152.5	2125.1	2261.9	2647.8	4182.2	7248.2	9435.7	7657.5	7433.4	6761.5	6706.3
65°	1641.5	1635.2	1696.6	1819.5	2533.1	6465.1	10458.1	9616.4	9266.3	7497.5	7367.4
67.5°	1348.8	1337.6	1398.1	1576.9	1631.2	4171.0	10480.6	11889.0	11545.1	8413.6	8132.2
70°	1109.0	1096.4	1152.9	1383.7	1507.4	2115.3	8820.7	13219.9	13201.4	9573.8	8709.5
71°	994.2	985.3	1052.9	1309.4	1481.1	1763.0	7615.8	13223.4	13278.6	9966.4	8675.5
72.5°	809.5	812.7	884.4	1165.5	1461.3	1556.8	5597.3	12607.1	12723.6	10340.7	8365.8
75°	537.9	540.6	634.8	896.5	1416.9	1523.2	3076.3	10578.7	10793.0	10116.6	7633.8
77.5°	361.3	360.4	424.5	615.0	1234.5	1523.2	1803.8	7912.1	8147.4	8049.7	5885.1
80°	248.8	247.0	292.2	424.5	934.6	1541.5	1394.5	5544.9	5616.1	4347.2	2391.8
82.5°	152.4	153.7	191.0	299.9	636.1	1387.4	1316.6	3023.4	2945.9	1219.2	597.5
85°	87.4	87.0	121.9	203.1	408.4	1170.9	1283.8	1301.3	1193.7	367.1	216.0
87.5°	31.4	33.6	65.5	112.5	234.0	815.4	1089.3	676.9	610.1	165.8	97.7
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°	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2	2974.2
2.5°	2970.5	2973.2	2970.1	2952.2	2937.0	2912.3	2898.4	2879.1	2873.3	2870.6	2877.7
5°	2981.8	2982.6	2956.2	2909.1	2856.2	2794.0	2749.1	2694.0	2668.0	2656.8	2663.9
7.5°	2992.0	2988.0	2930.2	2840.1	2742.4	2634.0	2537.5	2449.2	2397.7	2376.7	2378.4
10°	2993.4	2976.4	2883.6	2744.2	2592.7	2433.6	2285.6	2149.4	2063.3	2007.3	2024.3
12.5°	2979.6	2950.9	2815.0	2620.1	2409.8	2192.9	1993.0	1788.5	1665.7	1608.8	1610.6
15°	2968.7	2916.8	2730.7	2473.9	2191.5	1904.2	1631.2	1390.9	1260.0	1201.8	1174.4
17.5°	2959.8	2880.0	2633.0	2309.4	1933.8	1569.3	1241.2	1026.9	955.2	938.2	931.0
20°	2947.2	2841.0	2524.1	2118.9	1640.2	1194.6	906.4	800.6	801.0	820.8	823.4
22.5°	2929.8	2796.6	2408.1	1905.1	1325.0	870.1	710.5	680.0	711.0	748.6	755.3
25°	2903.8	2744.2	2278.9	1668.9	1010.4	668.8	606.9	605.6	643.2	682.7	688.5
27.5°	2867.0	2675.6	2135.5	1415.1	744.6	568.3	543.7	553.2	580.9	609.6	611.8
30°	2817.7	2595.9	1977.2	1147.5	583.6	506.1	503.4	511.9	528.9	549.1	550.9
32.5°	2763.4	2514.7	1808.2	888.4	499.8	472.5	475.2	479.2	487.3	495.3	497.1
35°	2714.2	2431.8	1635.2	675.1	459.9	450.5	448.7	447.8	448.7	446.0	446.5
37.5°	2682.3	2363.1	1455.0	537.4	437.1	431.2	425.8	419.1	411.5	407.0	407.9
40°	2670.7	2312.1	1272.6	464.4	418.3	414.2	403.9	389.6	380.5	377.8	377.8
42.5°	2702.0	2285.6	1096.4	427.7	402.5	395.8	378.8	362.2	355.5	355.0	354.5
45°	2798.0	2296.4	928.8	407.5	388.2	375.2	352.8	338.9	334.4	335.3	334.8
47.5°	2970.1	2364.1	785.3	394.0	373.8	356.8	331.7	320.5	315.1	315.1	315.6
50°	3262.8	2522.4	671.0	382.8	361.7	339.7	316.4	302.6	295.4	294.9	294.9
52.5°	3689.1	2805.6	599.7	373.4	348.3	324.6	301.3	283.7	275.3	273.4	272.6
55°	4223.5	3211.7	580.1	367.1	330.3	308.0	282.8	265.4	256.0	251.9	251.4
57.5°	4820.9	3705.7	619.0	359.5	312.0	288.2	262.7	246.1	236.2	231.3	230.8
60°	5425.6	4245.0	778.1	348.8	296.7	266.7	242.0	226.8	217.0	211.6	210.7
62.5°	6031.2	4813.3	1103.1	347.8	286.0	246.1	221.0	208.0	198.6	192.7	191.4
65°	6714.3	5435.5	1472.5	371.6	282.4	227.3	199.4	189.2	181.1	175.7	175.2
67.5°	7498.8	6137.9	1437.1	420.5	294.5	210.3	179.3	171.2	165.4	160.9	160.5
70°	7866.8	6028.0	893.4	455.0	311.5	193.7	160.0	154.2	149.7	146.5	145.2
71°	7712.7	5723.7	749.1	451.0	309.7	186.5	152.4	147.9	143.5	140.8	139.5
72.5°	7292.2	5219.9	624.9	419.6	289.5	173.5	142.5	138.1	134.0	130.9	130.0
75°	6543.6	4661.8	500.2	335.3	230.8	146.5	125.1	120.2	117.0	115.2	113.4
77.5°	4810.2	3326.9	386.9	264.9	169.9	119.7	106.7	103.1	100.0	97.3	95.9
80°	1842.8	1288.7	260.5	197.7	124.6	94.6	86.1	84.3	81.1	79.4	79.4
82.5°	496.2	385.0	139.0	119.7	83.4	69.0	65.9	65.0	62.3	58.7	59.2
85°	200.8	169.9	78.0	65.9	51.1	40.8	44.3	44.8	41.7	37.2	37.6
87.5°	88.3	72.2	43.5	29.2	22.5	15.6	20.2	20.2	18.4	15.3	13.9
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)