

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: P383287

Luminaire Tested: **GLEON-SA6A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25480.6 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

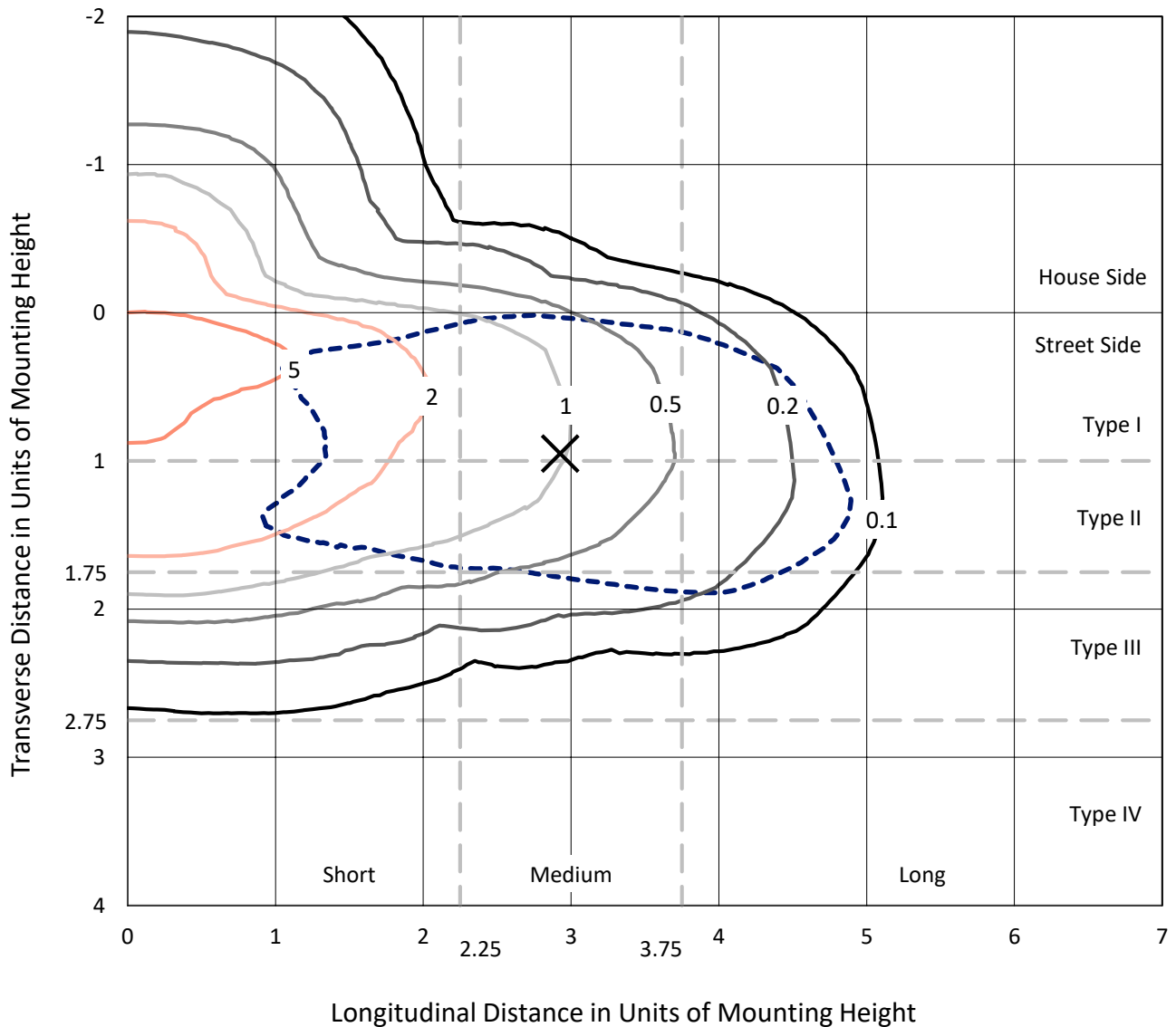
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

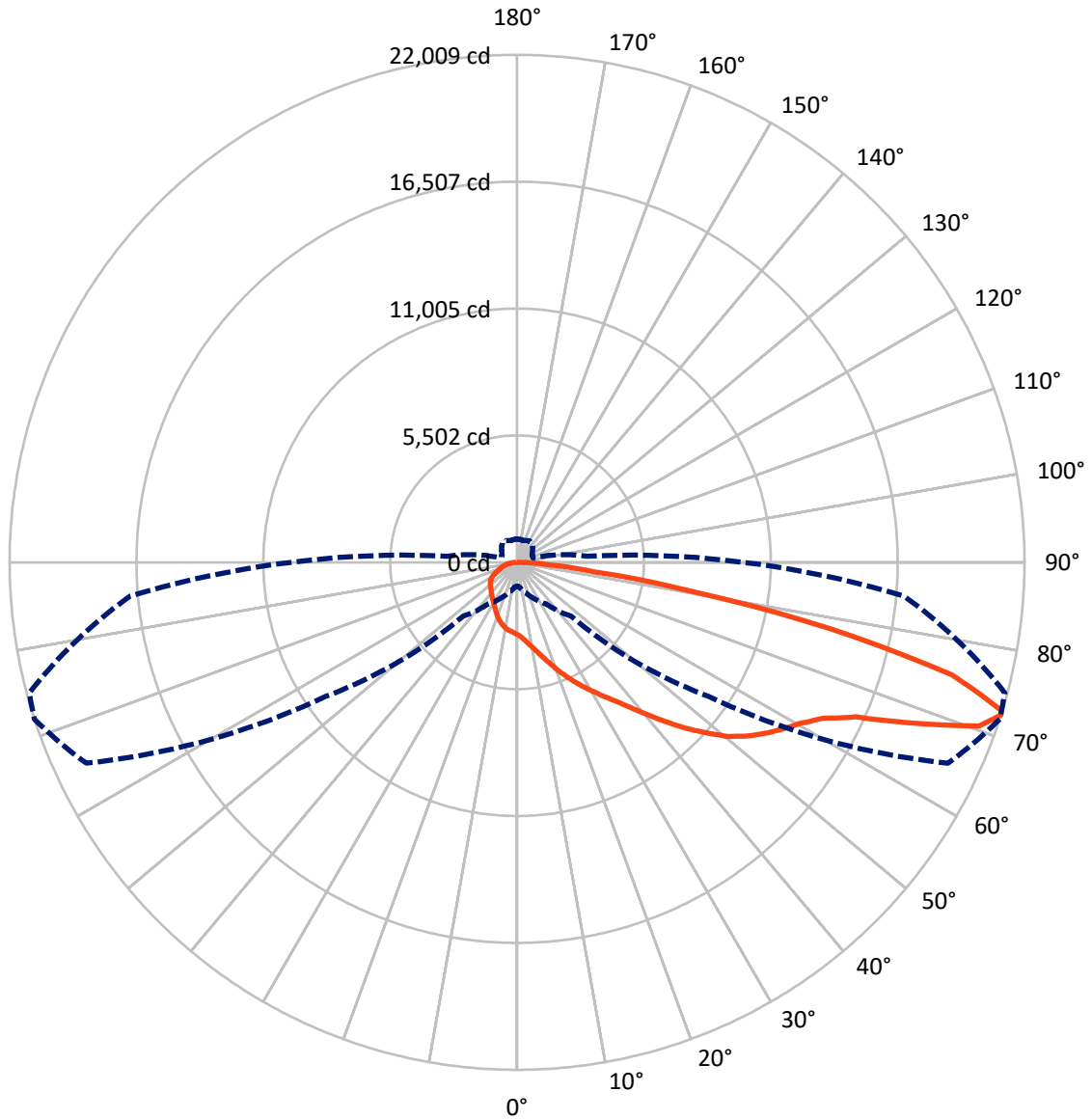
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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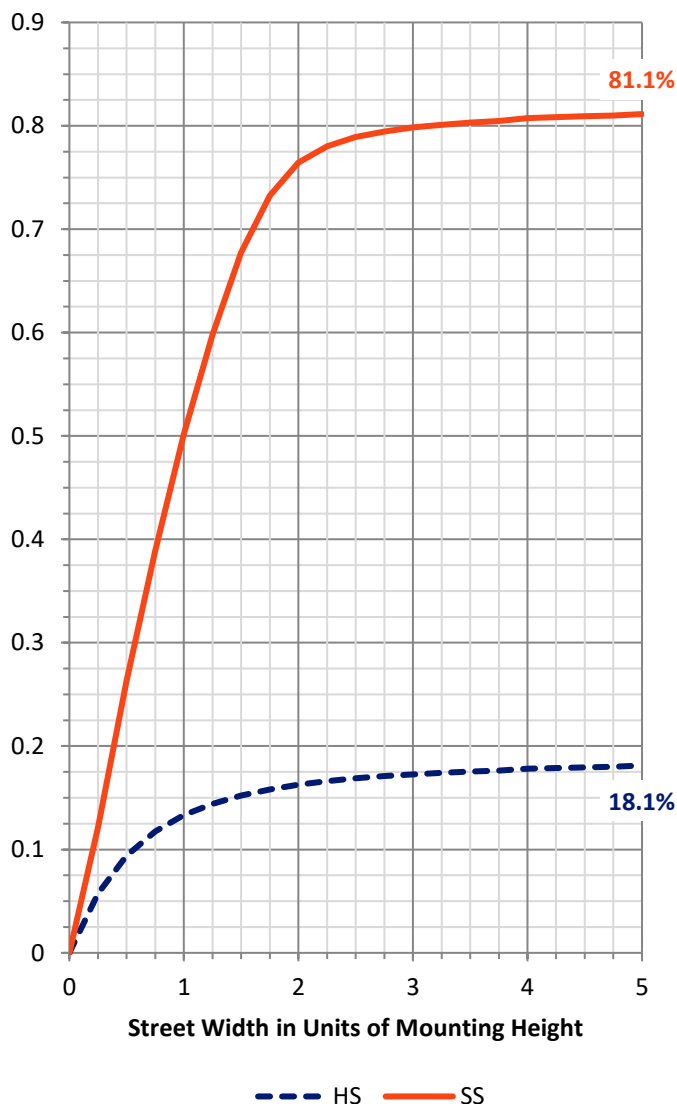
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4726.8	0.0	4726.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20753.8	0.0	20753.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	25480.6	0.0	25480.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	1.2
10°-20°	1015.1	4.0
20°-30°	1778.7	7.0
30°-40°	2637.3	10.4
40°-50°	3857.2	15.1
50°-60°	5307.5	20.8
60°-70°	5908.8	23.2
70°-80°	4003.8	15.7
80°-90°	658.1	2.6
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°	25480.6	100.0
0°-180°	25480.6	100.0

Coefficient of Utilization

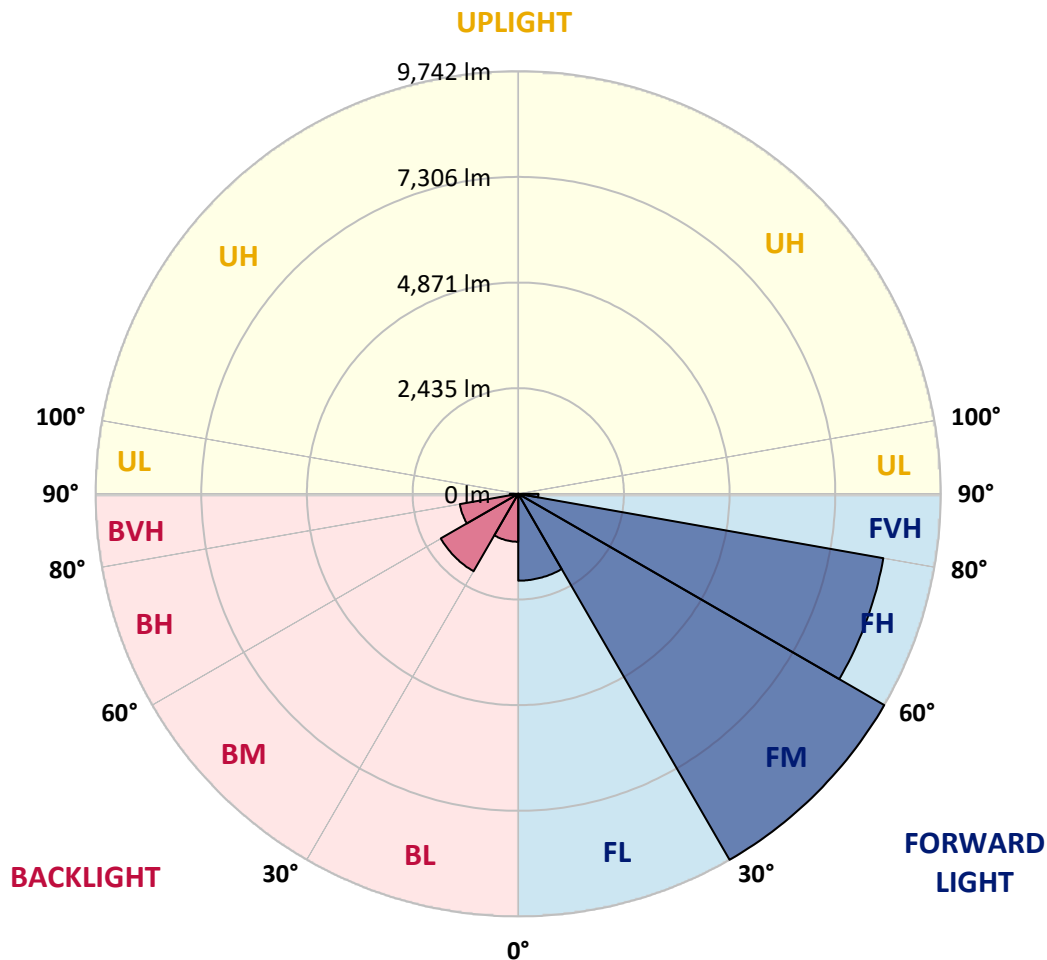


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.9	7.9			
FM (30°-60°)	9741.6	38.2			
FH (60°-80°)	8545.1	33.5			G4/12000
FVH (80°-90°)	464.2	1.8			G3/500
BL (0°-30°)	1105.0	4.3	B3/2500		
BM (30°-60°)	2060.5	8.1	B2/2500		
BH (60°-80°)	1367.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	193.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8
2.5°	3462.9	3457.6	3439.2	3439.2	3404.2	3374.3	3318.2	3280.4	3235.6	3219.9	3167.3
5°	3798.1	3799.8	3777.0	3761.2	3709.4	3646.3	3550.7	3463.8	3377.0	3341.8	3234.0
7.5°	4079.7	4076.2	4070.0	4056.9	4008.6	3943.7	3814.7	3685.8	3557.7	3505.0	3319.0
10°	4260.4	4268.4	4273.6	4279.7	4259.5	4213.0	4091.1	3934.0	3766.4	3694.5	3420.8
12.5°	4351.6	4365.7	4390.3	4432.4	4465.7	4460.4	4371.8	4205.2	4006.0	3915.7	3548.0
15°	4405.2	4423.6	4462.2	4537.7	4631.6	4685.0	4661.4	4510.5	4288.5	4177.1	3703.3
17.5°	4438.5	4453.4	4513.1	4614.0	4753.5	4895.7	4957.9	4831.6	4607.9	4480.7	3881.4
20°	4461.4	4472.7	4547.3	4665.7	4846.5	5072.8	5246.6	5215.0	4959.7	4794.8	4067.4
22.5°	4512.2	4521.9	4592.9	4712.2	4912.3	5204.5	5524.7	5572.1	5330.8	5143.9	4266.6
25°	4654.4	4654.4	4714.0	4797.4	4985.1	5318.5	5759.9	5969.5	5709.8	5492.2	4450.8
27.5°	4925.5	4922.9	4944.7	4973.7	5115.9	5434.3	5969.5	6320.5	6102.8	5865.1	4629.8
30°	5246.6	5264.1	5266.8	5252.7	5319.4	5579.1	6163.4	6690.7	6498.6	6242.4	4813.1
32.5°	5659.8	5671.2	5658.0	5611.5	5601.9	5784.4	6353.8	7078.5	6926.7	6636.3	4980.7
35°	6184.5	6162.6	6121.3	6026.6	5936.2	6059.0	6571.4	7466.3	7407.5	7112.7	5211.4
37.5°	6746.8	6747.8	6696.8	6481.9	6357.3	6410.0	6871.5	7905.9	7989.1	7679.5	5507.1
40°	7197.8	7221.5	7253.0	6970.6	6809.1	6882.0	7253.0	8415.6	8677.0	8351.5	5892.3
42.5°	7512.7	7539.9	7629.5	7452.2	7284.7	7419.8	7702.3	8959.5	9449.1	9127.1	6343.3
45°	7846.1	7861.1	7924.2	7847.9	7740.9	8045.3	8208.5	9522.7	10265.9	9953.6	6847.7
47.5°	8197.1	8212.9	8277.8	8227.0	8170.8	8629.7	8736.7	10053.5	11048.5	10861.7	7386.4
50°	8630.5	8641.0	8702.4	8610.3	8627.9	9070.1	9208.7	10540.6	11868.8	11677.6	7926.9
52.5°	9221.9	9224.5	9309.6	9226.2	9143.8	9393.0	9614.9	10999.3	12511.9	12421.5	8467.3
55°	9685.1	9713.2	9992.2	9974.6	9927.2	9686.0	9954.4	11436.3	13085.7	13128.7	9041.1
57.5°	9389.4	9499.1	10064.1	10462.4	10850.2	10415.1	10413.3	11928.5	13619.1	13822.7	9672.0
60°	8223.4	8372.6	9205.2	10088.7	11302.1	11683.7	11366.1	12529.5	14157.8	14510.5	10462.4
62.5°	5873.0	6118.7	7247.0	8657.7	10682.6	12524.2	13305.0	13483.1	14890.4	15307.2	11489.8
65°	2968.9	3155.0	4100.8	5800.2	8534.9	11975.0	15412.5	15571.3	16163.5	16533.7	13071.7
67.5°	1803.8	1874.0	2335.5	3226.0	5232.5	9328.1	16100.3	19051.7	18627.0	18823.6	15327.3
70°	1329.2	1380.9	1668.7	2142.5	3009.4	5473.8	13989.4	21535.5	21256.5	21234.5	16994.3
72°	1035.3	1073.0	1327.5	1731.0	2200.4	3283.9	10139.5	20618.7	22009.3	21898.7	16841.6
72.5°	981.8	1015.1	1246.7	1629.3	2079.3	2976.9	9116.6	20000.1	21954.9	21904.9	16644.2
75°	772.9	796.7	923.0	1259.9	1627.5	1688.9	4995.6	15499.3	19476.3	20286.1	14970.2
77.5°	639.6	643.1	709.7	916.8	1268.7	1194.1	2454.0	10753.7	13946.4	14836.9	10604.6
80°	521.1	525.6	557.2	643.1	959.9	883.5	1165.1	6183.6	7808.4	7818.1	5043.0
82.5°	415.0	415.8	451.0	470.2	689.6	631.7	667.6	2903.2	3412.0	3282.2	1812.6
85°	292.1	286.0	440.4	386.0	451.0	405.3	368.5	1149.3	1410.8	1349.3	567.7
87.5°	97.3	100.9	195.6	250.0	263.2	229.9	164.0	440.4	532.6	528.2	179.9
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°	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8	3134.8
2.5°	3150.6	3122.5	3081.3	3035.6	2999.7	2962.8	2935.6	2921.6	2905.8	2892.6	2908.4
5°	3183.9	3131.3	3043.6	2957.6	2894.4	2838.2	2797.9	2776.9	2757.5	2744.3	2746.1
7.5°	3238.3	3153.2	3005.8	2880.3	2792.6	2732.0	2690.9	2676.8	2664.5	2661.0	2665.4
10°	3296.2	3170.7	2955.8	2789.1	2689.1	2639.1	2620.6	2630.3	2639.1	2647.0	2655.7
12.5°	3362.0	3186.5	2883.0	2682.1	2597.0	2577.7	2596.1	2638.2	2668.9	2687.3	2698.7
15°	3448.0	3200.6	2798.7	2575.0	2518.0	2540.0	2602.2	2675.0	2728.6	2762.8	2768.1
17.5°	3526.9	3199.7	2690.9	2467.1	2454.0	2518.0	2611.9	2714.5	2786.4	2834.7	2844.4
20°	3608.5	3176.0	2565.4	2361.8	2389.0	2494.3	2616.3	2740.0	2826.9	2883.0	2896.2
22.5°	3684.9	3134.8	2427.6	2266.2	2334.6	2462.7	2599.6	2725.1	2811.9	2857.5	2871.6
25°	3736.6	3062.8	2288.2	2185.5	2286.4	2424.2	2545.2	2646.1	2711.0	2733.8	2737.4
27.5°	3763.0	2968.9	2156.5	2115.3	2236.4	2360.9	2444.3	2494.3	2512.8	2511.0	2507.4
30°	3766.4	2845.2	2043.3	2058.3	2178.4	2267.9	2307.4	2297.8	2274.1	2233.8	2237.2
32.5°	3755.1	2705.8	1948.6	2003.9	2104.7	2154.8	2156.5	2110.0	2046.9	1982.8	1965.3
35°	3758.6	2568.9	1865.2	1942.5	2015.3	2037.2	2017.1	1948.6	1862.6	1780.2	1762.6
37.5°	3797.2	2449.6	1793.3	1871.4	1916.1	1921.4	1892.4	1820.5	1757.4	1676.6	1669.6
40°	3889.3	2364.5	1724.9	1791.6	1817.0	1819.6	1778.4	1727.5	1732.8	1689.8	1688.9
42.5°	4055.1	2327.7	1664.3	1708.2	1724.0	1729.2	1697.7	1665.2	1710.9	1682.7	1673.2
45°	4269.2	2336.4	1613.4	1626.6	1655.5	1680.1	1660.9	1621.4	1638.9	1516.9	1476.6
47.5°	4516.6	2392.6	1573.1	1556.4	1606.5	1652.9	1623.1	1563.4	1501.2	1380.1	1357.3
50°	4806.1	2479.4	1536.2	1487.1	1552.9	1616.0	1586.2	1501.2	1407.3	1348.5	1340.6
52.5°	5108.0	2585.6	1499.4	1410.8	1485.4	1588.0	1573.1	1487.1	1371.3	1313.4	1302.9
55°	5450.1	2692.6	1452.9	1322.1	1412.5	1574.9	1567.0	1436.3	1344.1	1311.6	1303.7
57.5°	5875.6	2814.6	1391.5	1230.0	1344.1	1527.5	1502.9	1405.5	1316.0	1291.5	1288.8
60°	6430.1	2994.4	1302.9	1131.8	1260.8	1454.6	1449.4	1360.8	1271.3	1253.8	1250.2
62.5°	7261.9	3291.8	1180.9	1033.6	1167.8	1330.9	1379.2	1300.3	1223.9	1223.0	1224.8
65°	8551.5	3739.2	1048.5	947.6	1073.9	1226.6	1297.6	1237.9	1175.6	1193.2	1195.8
67.5°	10046.6	4110.4	918.6	863.4	978.2	1127.4	1223.9	1175.6	1111.6	1157.3	1158.1
70°	10544.0	3778.7	804.6	780.0	879.1	1031.8	1144.0	1107.2	1042.3	1088.0	1083.6
72°	9812.3	3050.5	730.8	716.8	804.6	952.8	1073.0	1043.1	979.1	1009.8	998.4
72.5°	9581.5	2908.4	712.4	701.0	784.4	932.7	1054.6	1027.4	963.3	989.7	979.1
75°	8547.1	2525.9	612.4	615.0	684.3	834.4	951.0	942.3	876.5	879.1	875.6
77.5°	6199.4	1852.1	515.9	533.4	582.6	733.5	846.7	841.4	769.5	756.3	753.6
80°	2876.8	944.9	420.2	428.1	479.0	613.2	722.0	715.1	657.1	640.4	630.8
82.5°	985.3	449.2	315.9	321.1	371.1	493.9	626.5	622.1	573.8	541.3	521.1
85°	351.8	223.8	221.1	215.8	264.9	388.6	545.7	522.0	451.0	384.3	382.5
87.5°	114.0	95.7	114.0	113.2	154.5	263.2	396.6	337.8	327.3	272.0	266.7
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)