

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: P318192

Luminaire Tested: **GLEON-SA8A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318192
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-SA8A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26943 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

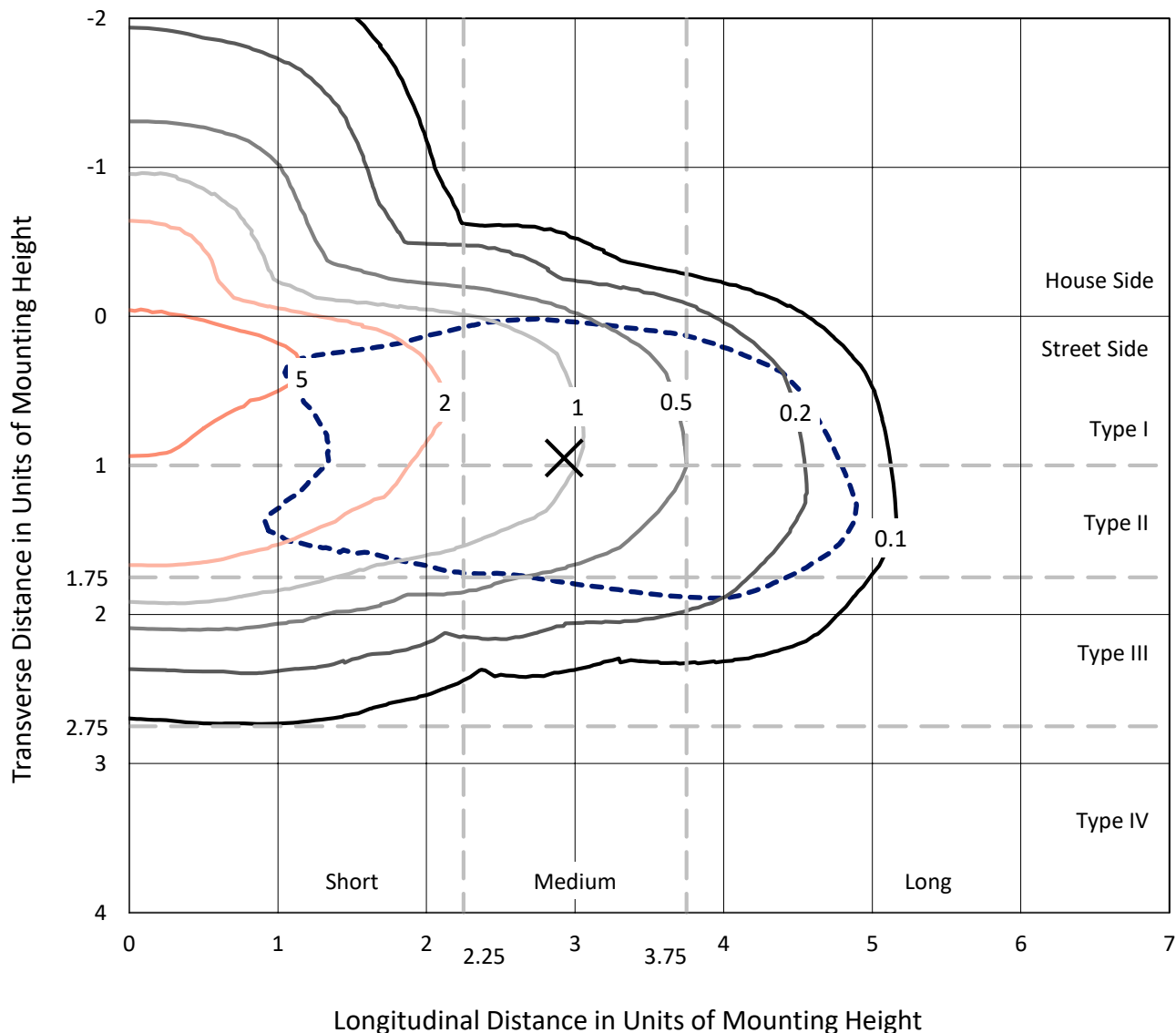
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

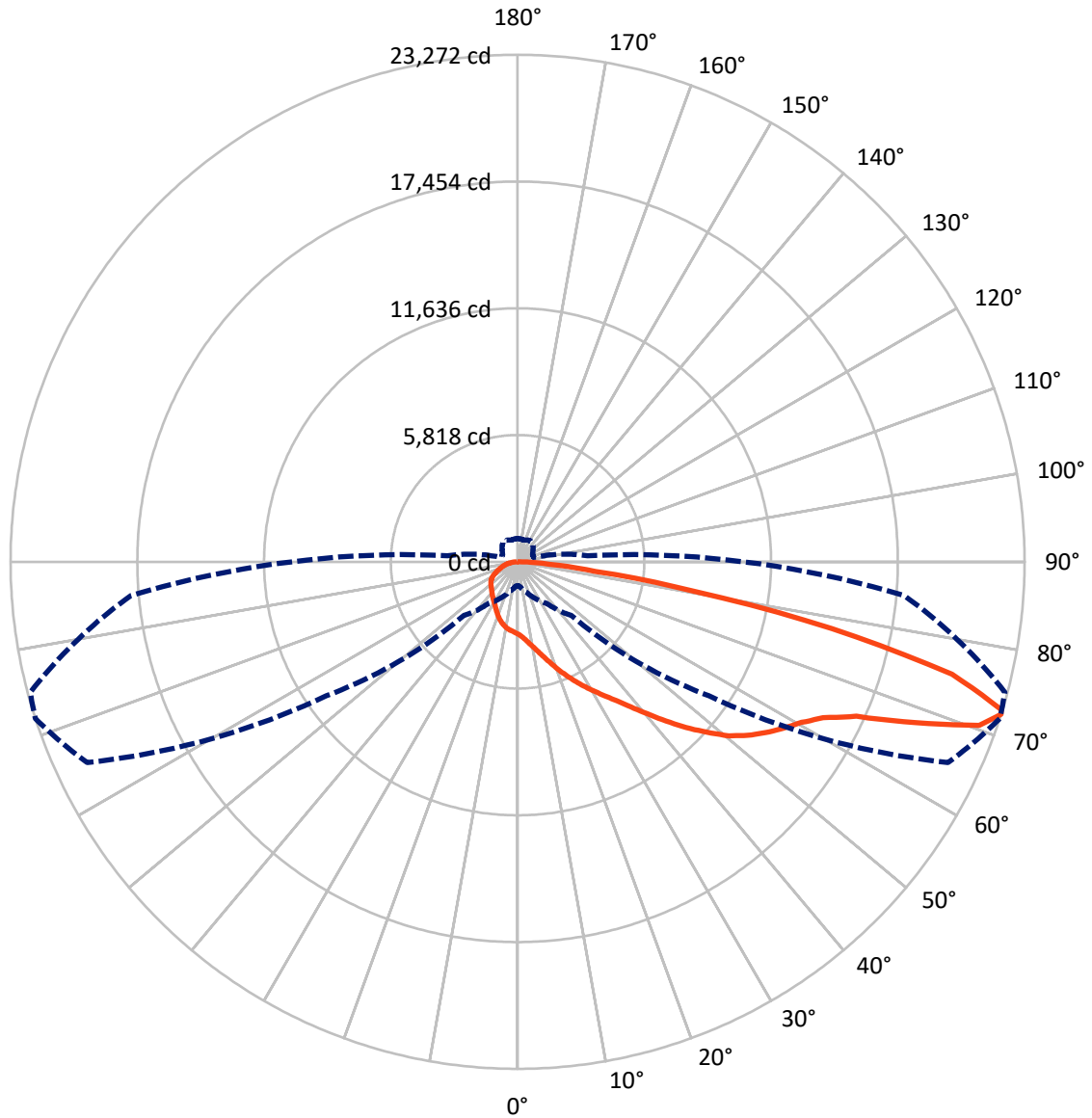
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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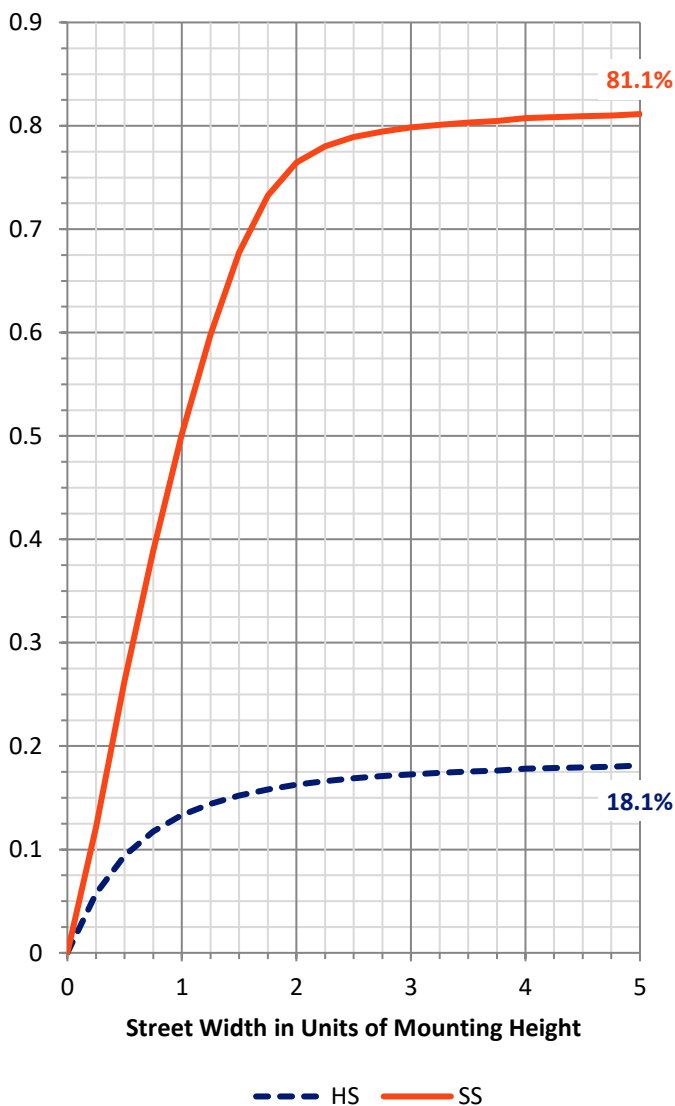
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4998.1	0.0	4998.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21944.9	0.0	21944.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	26943.0	0.0	26943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	1.2
10°-20°	1073.3	4.0
20°-30°	1880.8	7.0
30°-40°	2788.6	10.4
40°-50°	4078.6	15.1
50°-60°	5612.1	20.8
60°-70°	6248.0	23.2
70°-80°	4233.6	15.7
80°-90°	695.8	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°	26943.0	100.0
0°-180°	26943.0	100.0

Coefficient of Utilization

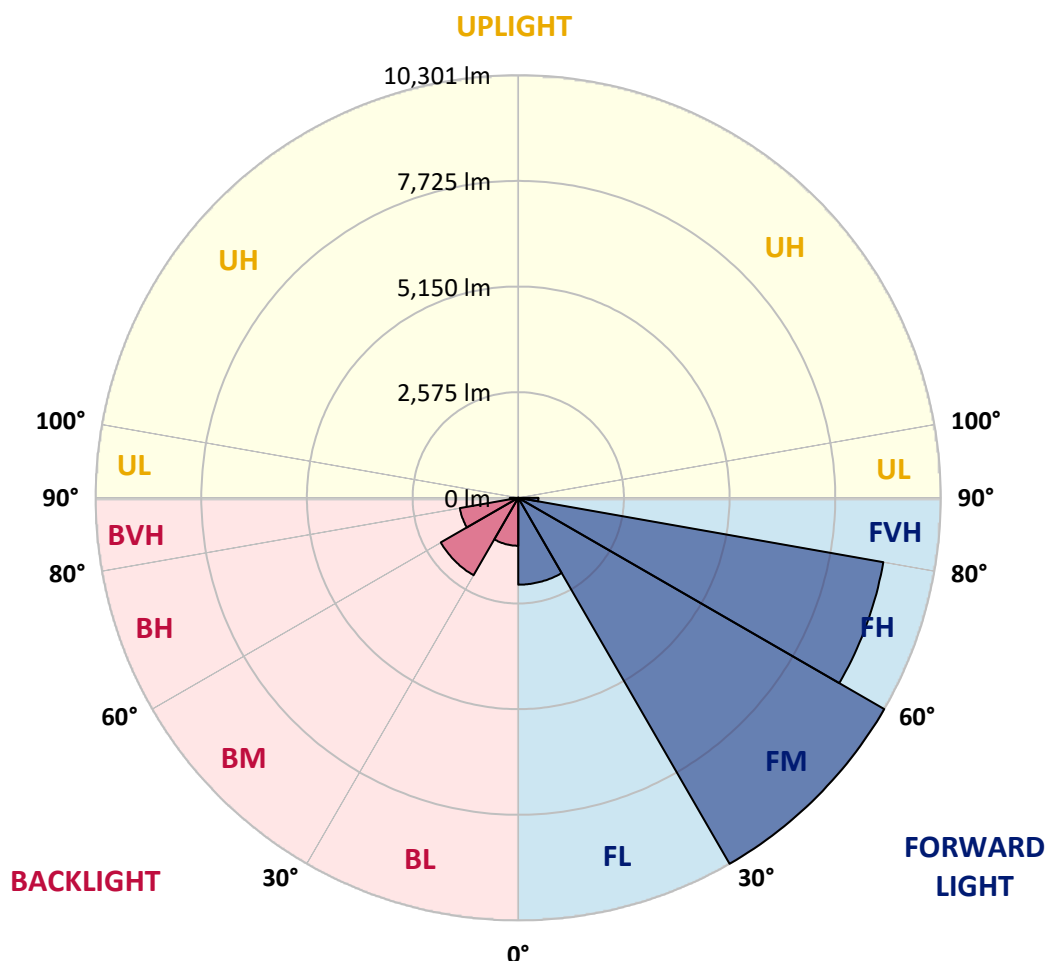


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.9	7.9			
FM (30°-60°)	10300.6	38.2			
FH (60°-80°)	9035.5	33.5			G4/12000
FVH (80°-90°)	490.8	1.8			G3/500
BL (0°-30°)	1168.4	4.3	B3/2500		
BM (30°-60°)	2178.7	8.1	B2/2500		
BH (60°-80°)	1446.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	205.0	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°	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7
2.5°	3661.7	3656.1	3636.6	3636.6	3599.5	3568.0	3508.6	3468.7	3421.4	3404.7	3349.0
5°	4016.0	4017.9	3993.8	3977.1	3922.3	3855.5	3754.4	3662.6	3570.7	3533.6	3419.5
7.5°	4313.8	4310.1	4303.6	4289.7	4238.7	4170.0	4033.7	3897.3	3761.8	3706.2	3509.5
10°	4504.9	4513.3	4518.9	4525.3	4504.0	4454.8	4325.9	4159.8	3982.6	3906.6	3617.1
12.5°	4601.4	4616.3	4642.2	4686.8	4722.0	4716.5	4622.8	4446.5	4235.9	4140.3	3751.6
15°	4658.0	4677.5	4718.3	4798.1	4897.4	4953.9	4928.9	4769.3	4534.6	4416.8	3915.8
17.5°	4693.3	4709.0	4772.1	4878.8	5026.3	5176.6	5242.5	5108.9	4872.3	4737.8	4104.2
20°	4717.4	4729.4	4808.3	4933.5	5124.6	5364.0	5547.7	5514.3	5244.3	5069.9	4300.8
22.5°	4771.2	4781.4	4856.5	4982.7	5194.2	5503.1	5841.8	5891.9	5636.7	5439.1	4511.4
25°	4921.5	4921.5	4984.6	5072.7	5271.2	5623.8	6090.4	6312.1	6037.5	5807.4	4706.3
27.5°	5208.1	5205.4	5228.5	5259.2	5409.5	5746.2	6312.1	6683.2	6453.1	6201.7	4895.5
30°	5547.7	5566.2	5569.0	5554.2	5624.7	5899.3	6517.1	7074.7	6871.5	6600.6	5089.4
32.5°	5984.6	5996.7	5982.8	5933.6	5923.4	6116.4	6718.4	7484.7	7324.2	7017.2	5266.6
35°	6539.4	6516.2	6472.6	6372.4	6276.9	6406.7	6948.5	7894.8	7832.6	7520.9	5510.6
37.5°	7134.1	7135.0	7081.2	6853.9	6722.2	6777.8	7265.8	8359.6	8447.7	8120.2	5823.2
40°	7610.9	7635.9	7669.3	7370.6	7199.9	7276.9	7669.3	8898.6	9175.0	8830.8	6230.5
42.5°	7943.9	7972.7	8067.3	7879.9	7702.7	7845.6	8144.3	9473.7	9991.4	9650.9	6707.3
45°	8296.5	8312.2	8379.0	8298.3	8185.1	8507.1	8679.6	10069.3	10855.1	10524.8	7240.7
47.5°	8667.6	8684.3	8752.9	8699.1	8639.7	9124.9	9238.1	10630.6	11682.6	11485.0	7810.4
50°	9125.8	9137.0	9201.9	9104.5	9123.1	9590.6	9737.2	11145.5	12550.0	12347.8	8381.8
52.5°	9751.1	9753.9	9843.9	9755.8	9668.5	9932.0	10166.7	11630.6	13230.0	13134.5	8953.3
55°	10240.9	10270.6	10565.6	10547.1	10497.0	10241.9	10525.7	12092.6	13836.7	13882.2	9560.0
57.5°	9928.3	10044.3	10641.7	11062.9	11472.9	11012.8	11010.9	12613.1	14400.8	14616.0	10227.0
60°	8695.4	8853.1	9733.5	10667.7	11950.7	12354.3	12018.4	13248.6	14970.4	15343.3	11062.9
62.5°	6210.1	6469.8	7662.8	9154.6	11295.7	13243.0	14068.7	14257.0	15745.0	16185.7	12149.2
65°	3139.4	3336.0	4336.1	6133.1	9024.7	12662.3	16297.0	16464.9	17091.1	17482.6	13821.9
67.5°	1907.4	1981.6	2469.6	3411.2	5532.8	9863.4	17024.3	20145.1	19696.1	19903.9	16207.0
70°	1405.5	1460.2	1764.5	2265.5	3182.0	5788.0	14792.3	22771.5	22476.4	22453.3	17969.7
72°	1094.7	1134.6	1403.6	1830.4	2326.7	3472.4	10721.5	21802.0	23272.4	23155.5	17808.2
72.5°	1038.1	1073.4	1318.3	1722.7	2198.7	3147.7	9639.8	21148.0	23214.9	23162.0	17599.5
75°	817.3	842.4	975.9	1332.2	1720.9	1785.8	5282.4	16388.8	20594.1	21450.4	15829.4
77.5°	676.3	680.0	750.5	969.5	1341.5	1262.6	2594.8	11370.9	14746.8	15688.4	11213.2
80°	551.1	555.7	589.1	680.0	1014.9	934.2	1232.0	6538.5	8256.6	8266.8	5332.5
82.5°	438.8	439.7	476.8	497.3	729.2	667.9	706.0	3069.8	3607.8	3470.5	1916.6
85°	308.9	302.4	465.7	408.2	476.8	428.6	389.6	1215.3	1491.8	1426.8	600.2
87.5°	103.0	106.7	206.9	264.4	278.3	243.1	173.5	465.7	563.1	558.5	190.2
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°	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7	3314.7
2.5°	3331.4	3301.7	3258.1	3209.9	3171.8	3132.9	3104.1	3089.3	3072.6	3058.6	3075.3
5°	3366.6	3311.0	3218.2	3127.3	3060.5	3001.1	2958.5	2936.2	2915.8	2901.9	2903.7
7.5°	3424.2	3334.2	3178.3	3045.7	2952.9	2888.9	2845.3	2830.4	2817.4	2813.7	2818.4
10°	3485.4	3352.7	3125.4	2949.2	2843.4	2790.5	2771.1	2781.3	2790.5	2798.9	2808.2
12.5°	3555.0	3369.4	3048.4	2836.0	2746.0	2725.6	2745.1	2789.6	2822.1	2841.6	2853.6
15°	3645.9	3384.3	2959.4	2722.8	2662.5	2685.7	2751.6	2828.6	2885.2	2921.3	2926.9
17.5°	3729.4	3383.3	2845.3	2608.7	2594.8	2662.5	2761.8	2870.3	2946.4	2997.4	3007.6
20°	3815.7	3358.3	2712.6	2497.4	2526.1	2637.5	2766.4	2897.2	2989.1	3048.4	3062.4
22.5°	3896.4	3314.7	2567.0	2396.3	2468.6	2604.1	2748.8	2881.5	2973.3	3021.5	3036.4
25°	3951.1	3238.6	2419.5	2310.9	2417.6	2563.3	2691.3	2798.0	2866.6	2890.7	2894.4
27.5°	3978.9	3139.4	2280.3	2236.7	2364.7	2496.5	2584.6	2637.5	2656.9	2655.1	2651.4
30°	3982.6	3008.5	2160.6	2176.4	2303.5	2398.1	2439.9	2429.7	2404.6	2361.9	2365.6
32.5°	3970.6	2861.0	2060.4	2118.9	2225.6	2278.4	2280.3	2231.1	2164.3	2096.6	2078.1
35°	3974.3	2716.3	1972.3	2053.9	2130.9	2154.1	2132.8	2060.4	1969.5	1882.3	1863.8
37.5°	4015.1	2590.2	1896.2	1978.8	2026.1	2031.7	2001.1	1925.0	1858.2	1772.8	1765.4
40°	4112.5	2500.2	1823.9	1894.4	1921.3	1924.1	1880.5	1826.7	1832.2	1786.8	1785.8
42.5°	4287.9	2461.2	1759.9	1806.2	1822.9	1828.5	1795.1	1760.8	1809.0	1779.3	1769.1
45°	4514.2	2470.5	1706.1	1720.0	1750.6	1776.6	1756.1	1714.4	1733.0	1604.0	1561.3
47.5°	4775.8	2529.9	1663.4	1645.7	1698.6	1747.8	1716.3	1653.2	1587.3	1459.3	1435.2
50°	5082.0	2621.7	1624.4	1572.5	1642.0	1708.8	1677.3	1587.3	1488.0	1425.9	1417.5
52.5°	5401.1	2733.9	1585.4	1491.8	1570.6	1679.1	1663.4	1572.5	1450.0	1388.8	1377.6
55°	5762.9	2847.1	1536.3	1398.1	1493.6	1665.2	1656.9	1518.7	1421.2	1386.9	1378.6
57.5°	6212.8	2976.1	1471.3	1300.6	1421.2	1615.1	1589.2	1486.2	1391.6	1365.6	1362.8
60°	6799.2	3166.3	1377.6	1196.7	1333.1	1538.1	1532.6	1438.9	1344.2	1325.7	1322.0
62.5°	7678.6	3480.8	1248.7	1092.8	1234.8	1407.3	1458.4	1374.9	1294.1	1293.2	1295.1
65°	9042.3	3953.9	1108.6	1001.9	1135.5	1296.9	1372.1	1309.0	1243.1	1261.7	1264.5
67.5°	10623.2	4346.3	971.3	912.9	1034.4	1192.1	1294.1	1243.1	1175.4	1223.6	1224.6
70°	11149.2	3995.6	850.7	824.7	929.6	1091.0	1209.7	1170.8	1102.1	1150.4	1145.7
72°	10375.5	3225.6	772.8	757.9	850.7	1007.5	1134.6	1103.0	1035.3	1067.8	1055.7
72.5°	10131.5	3075.3	753.3	741.2	829.4	986.2	1115.1	1086.3	1018.6	1046.5	1035.3
75°	9037.7	2670.9	647.5	650.3	723.6	882.2	1005.6	996.4	926.8	929.6	925.9
77.5°	6555.2	1958.4	545.5	564.0	616.0	775.6	895.2	889.7	813.6	799.7	796.9
80°	3041.9	999.1	444.4	452.7	506.5	648.5	763.5	756.1	694.9	677.2	667.0
82.5°	1041.8	475.0	334.0	339.5	392.4	522.3	662.4	657.7	606.7	572.4	551.1
85°	372.0	236.6	233.8	228.2	280.2	411.0	577.0	552.0	476.8	406.3	404.5
87.5°	120.6	101.1	120.6	119.7	163.3	278.3	419.3	357.2	346.0	287.6	282.0
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)