

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: P318209

Luminaire Tested: **GLEON-SA5C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318209
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-SA5C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25503 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

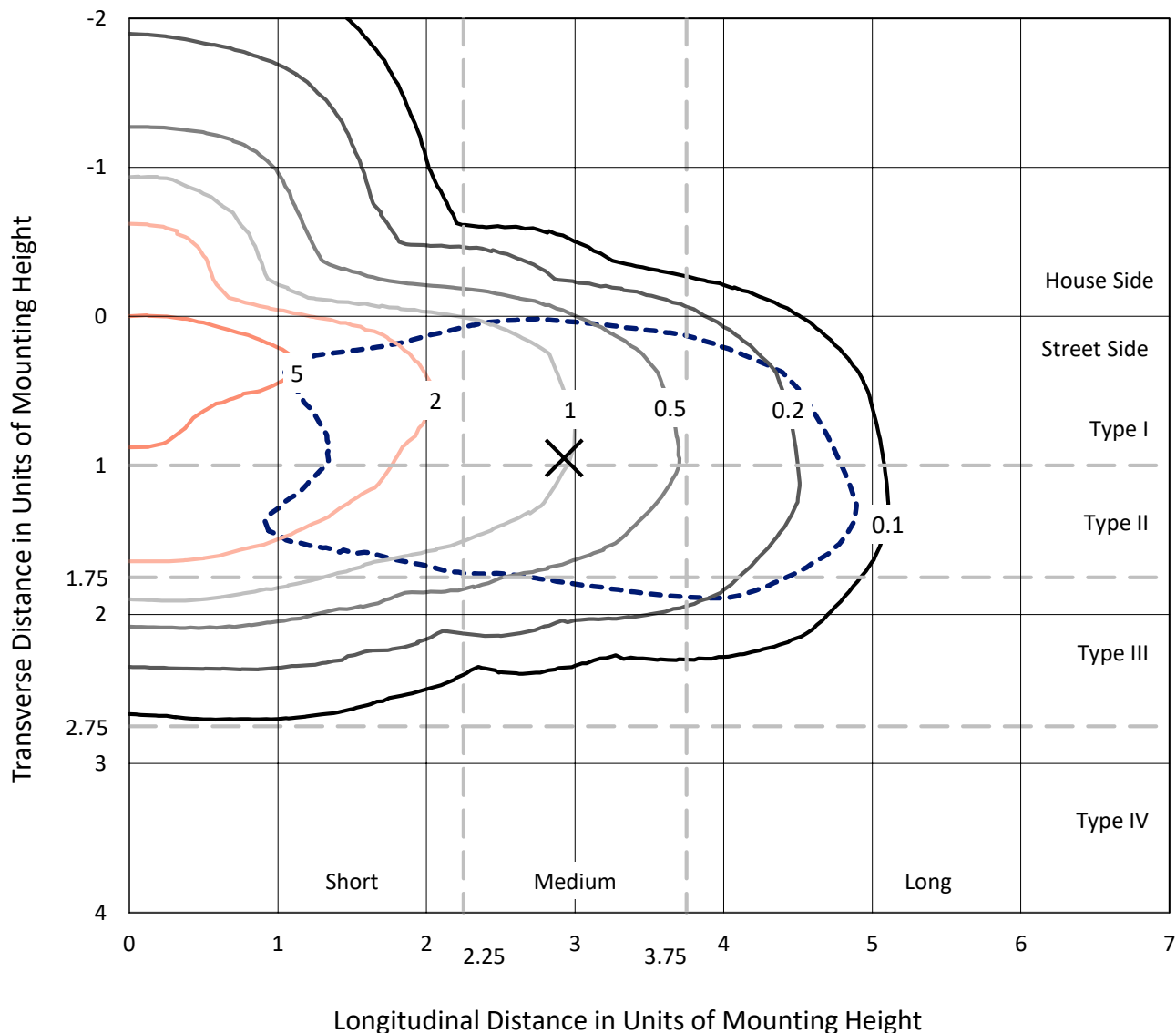
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

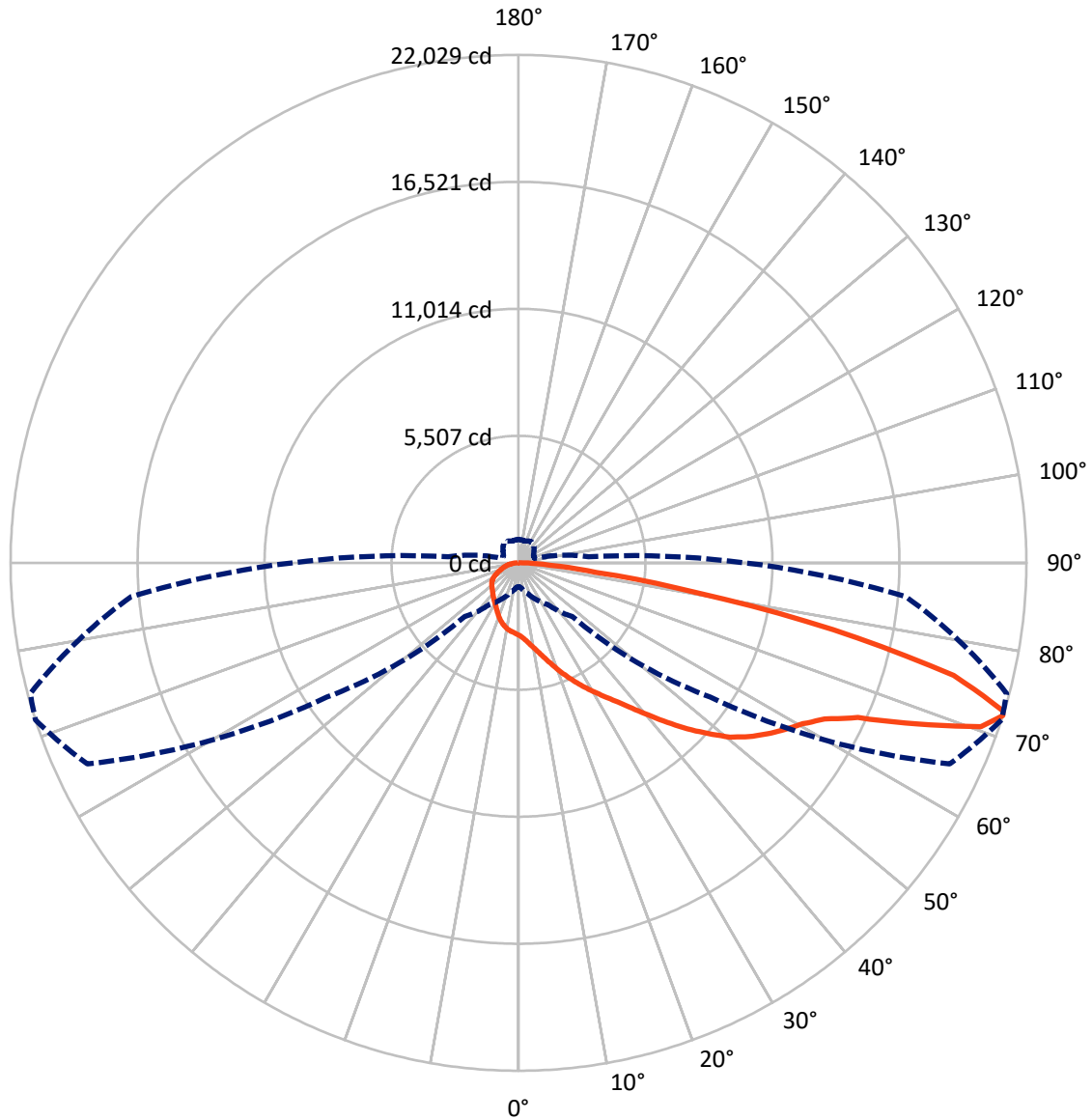
✕ Max cd
 - - - 1/2 Max cd



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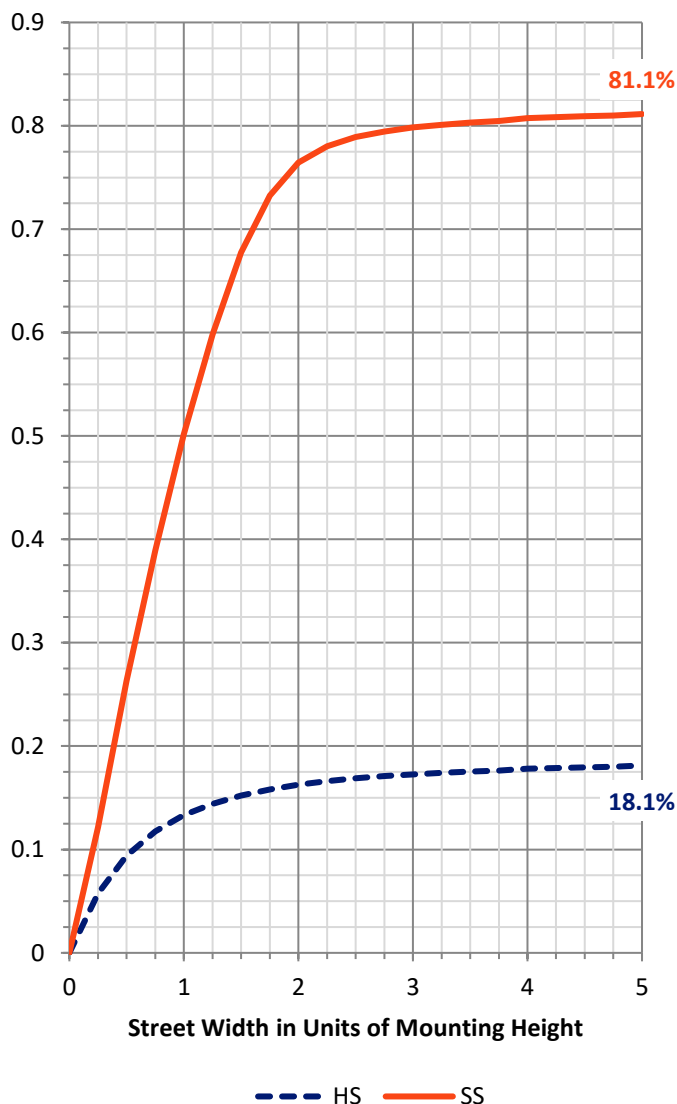
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4731.0	0.0	4731.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20772.0	0.0	20772.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	25503.0	0.0	25503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.2
10°-20°	1016.0	4.0
20°-30°	1780.3	7.0
30°-40°	2639.6	10.4
40°-50°	3860.6	15.1
50°-60°	5312.2	20.8
60°-70°	5914.0	23.2
70°-80°	4007.3	15.7
80°-90°	658.6	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°	25503.0	100.0
0°-180°	25503.0	100.0

Coefficient of Utilization

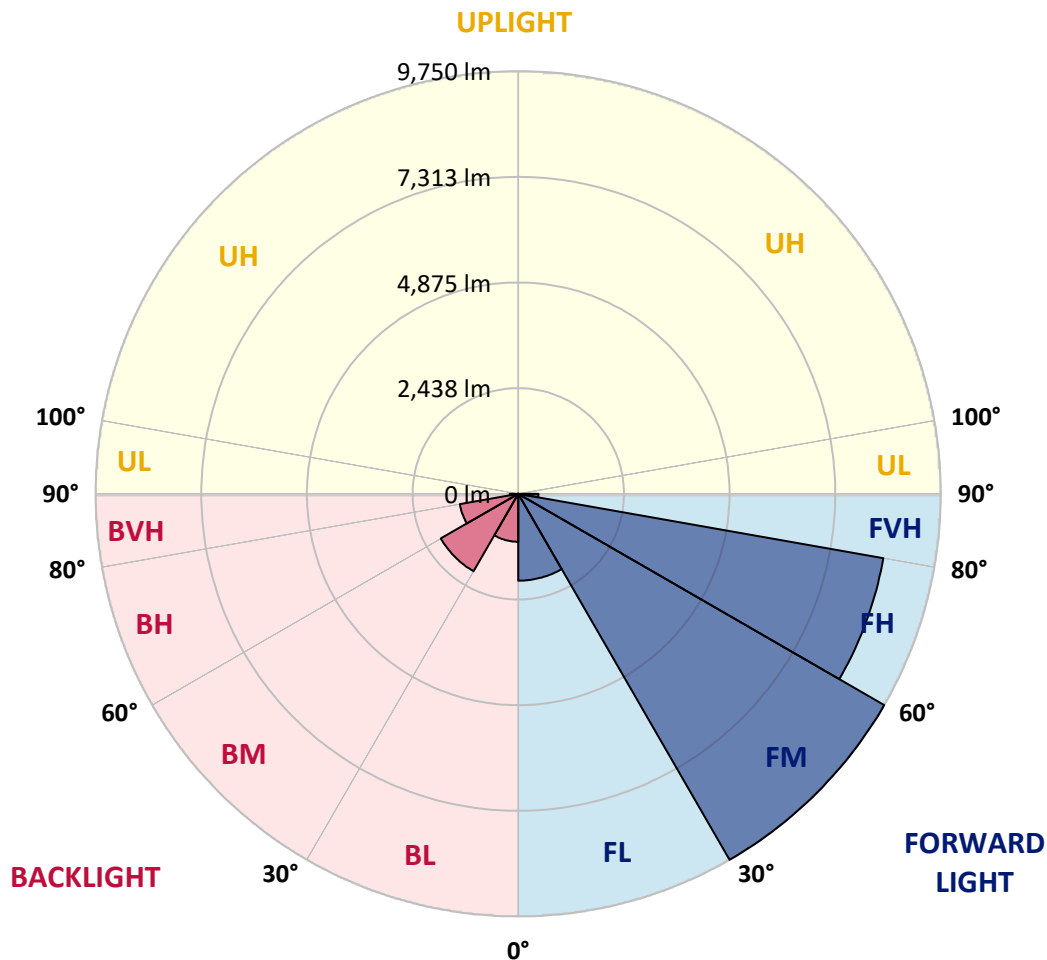


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.7	7.9			
FM (30°-60°)	9750.1	38.2			
FH (60°-80°)	8552.6	33.5			G4/12000
FVH (80°-90°)	464.6	1.8			G3/500
BL (0°-30°)	1105.9	4.3	B3/2500		
BM (30°-60°)	2062.3	8.1	B2/2500		
BH (60°-80°)	1368.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	194.0	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°	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5
2.5°	3466.0	3460.7	3442.2	3442.2	3407.1	3377.3	3321.1	3283.3	3238.5	3222.7	3170.0
5°	3801.4	3803.2	3780.3	3764.5	3712.7	3649.5	3553.8	3466.8	3379.9	3344.8	3236.8
7.5°	4083.3	4079.8	4073.6	4060.4	4012.1	3947.2	3818.1	3689.0	3560.8	3508.1	3321.9
10°	4264.2	4272.1	4277.3	4283.5	4263.3	4216.7	4094.7	3937.5	3769.8	3697.8	3423.8
12.5°	4355.5	4369.5	4394.1	4436.3	4469.6	4464.4	4375.7	4208.8	4009.5	3919.1	3551.1
15°	4409.1	4427.5	4466.1	4541.7	4635.6	4689.2	4665.5	4514.4	4292.3	4180.7	3706.6
17.5°	4442.4	4457.4	4517.1	4618.1	4757.7	4899.9	4962.3	4835.8	4611.9	4484.6	3884.8
20°	4465.3	4476.7	4551.3	4669.9	4850.8	5077.3	5251.2	5219.6	4964.0	4798.9	4071.0
22.5°	4516.2	4525.8	4597.0	4716.4	4916.6	5209.0	5529.5	5577.0	5335.5	5148.4	4270.3
25°	4658.4	4658.4	4718.2	4801.6	4989.5	5323.2	5764.9	5974.8	5714.8	5497.1	4454.7
27.5°	4929.8	4927.1	4949.1	4978.1	5120.3	5439.1	5974.8	6326.0	6108.2	5870.3	4633.9
30°	5251.2	5268.7	5271.4	5257.3	5324.1	5584.0	6168.8	6696.6	6504.3	6247.8	4817.4
32.5°	5664.8	5676.2	5663.0	5616.5	5606.8	5789.5	6359.4	7084.7	6932.8	6642.1	4985.1
35°	6189.9	6167.9	6126.7	6031.8	5941.4	6064.3	6577.1	7472.8	7414.0	7118.9	5216.1
37.5°	6752.8	6753.6	6702.7	6487.6	6362.9	6415.6	6877.5	7912.8	7996.2	7686.2	5512.0
40°	7204.1	7227.8	7259.4	6976.7	6815.1	6888.0	7259.4	8423.0	8684.6	8358.9	5897.5
42.5°	7519.4	7546.6	7636.2	7458.8	7291.1	7426.3	7709.0	8967.4	9457.4	9135.1	6348.8
45°	7853.1	7868.0	7931.2	7854.8	7747.7	8052.4	8215.7	9531.1	10274.9	9962.3	6853.8
47.5°	8204.3	8220.1	8285.1	8234.2	8178.0	8637.2	8744.4	10062.4	11058.2	10871.2	7392.9
50°	8638.1	8648.6	8710.1	8617.9	8635.5	9078.0	9216.8	10549.8	11879.3	11687.8	7933.8
52.5°	9230.0	9232.6	9317.8	9234.3	9151.8	9401.2	9623.4	11009.0	12522.9	12432.5	8474.8
55°	9693.6	9721.7	10000.9	9983.4	9936.0	9694.5	9963.2	11446.3	13097.2	13140.2	9049.1
57.5°	9397.7	9507.4	10073.0	10471.6	10859.8	10424.2	10422.4	11939.0	13631.1	13834.8	9680.4
60°	8230.6	8379.9	9213.3	10097.5	11312.0	11694.0	11376.1	12540.5	14170.3	14523.3	10471.6
62.5°	5878.2	6124.0	7253.3	8665.3	10692.0	12535.2	13316.7	13495.0	14903.5	15320.6	11499.9
65°	2971.6	3157.7	4104.3	5805.3	8542.4	11985.5	15426.0	15584.9	16177.7	16548.2	13083.2
67.5°	1805.4	1875.7	2337.6	3228.9	5237.1	9336.2	16114.4	19068.4	18643.4	18840.1	15340.8
70°	1330.4	1382.2	1670.2	2144.4	3012.0	5478.6	14001.7	21554.4	21275.2	21253.2	17009.2
72°	1036.2	1073.9	1328.6	1732.5	2202.3	3286.8	10148.5	20636.8	22028.6	21918.0	16856.5
72.5°	982.6	1016.0	1247.8	1630.7	2081.2	2979.5	9124.6	20017.7	21974.2	21924.1	16658.9
75°	773.6	797.3	923.8	1261.0	1628.9	1690.4	5000.0	15512.9	19493.5	20304.0	14983.4
77.5°	640.2	643.7	710.4	917.6	1269.8	1195.1	2456.1	10763.2	13958.6	14849.9	10613.9
80°	521.6	526.0	557.6	643.7	960.7	884.3	1166.1	6189.0	7815.3	7825.0	5047.5
82.5°	415.4	416.2	451.4	470.7	690.2	632.2	668.3	2905.7	3415.0	3285.1	1814.2
85°	292.4	286.3	440.8	386.4	451.4	405.7	368.8	1150.3	1412.0	1350.6	568.1
87.5°	97.5	101.0	195.8	250.3	263.4	230.1	164.2	440.8	533.0	528.6	180.0
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°	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5	3137.5
2.5°	3153.3	3125.2	3084.0	3038.3	3002.3	2965.4	2938.2	2924.2	2908.3	2895.2	2911.0
5°	3186.7	3134.0	3046.2	2960.2	2896.9	2840.7	2800.3	2779.3	2759.9	2746.8	2748.5
7.5°	3241.2	3156.0	3008.5	2882.9	2795.1	2734.5	2693.2	2679.2	2666.9	2663.3	2667.7
10°	3299.1	3173.5	2958.4	2791.6	2691.4	2641.4	2623.0	2632.6	2641.4	2649.3	2658.1
12.5°	3365.0	3189.3	2885.5	2684.4	2599.2	2579.9	2598.4	2640.5	2671.3	2689.7	2701.1
15°	3451.0	3203.4	2801.2	2577.3	2520.2	2542.2	2604.5	2677.4	2731.0	2765.2	2770.5
17.5°	3530.1	3202.5	2693.2	2469.3	2456.1	2520.2	2614.2	2716.9	2788.9	2837.2	2846.9
20°	3611.7	3178.8	2567.6	2363.9	2391.1	2496.5	2618.6	2742.4	2829.3	2885.5	2898.7
22.5°	3688.1	3137.5	2429.8	2268.2	2336.7	2464.9	2601.9	2727.5	2814.4	2860.0	2874.1
25°	3739.9	3065.5	2290.1	2187.4	2288.4	2426.3	2547.4	2648.4	2713.4	2736.2	2739.7
27.5°	3766.3	2971.6	2158.4	2117.2	2238.3	2363.0	2446.5	2496.5	2514.9	2513.2	2509.7
30°	3769.8	2847.8	2045.1	2060.1	2180.4	2269.9	2309.5	2299.8	2276.1	2235.7	2239.2
32.5°	3758.4	2708.1	1950.3	2005.6	2106.6	2156.7	2158.4	2111.9	2048.7	1984.6	1967.0
35°	3761.9	2571.1	1866.9	1944.2	2017.0	2039.0	2018.8	1950.3	1864.3	1781.7	1764.1
37.5°	3800.5	2451.7	1794.9	1873.0	1917.8	1923.1	1894.1	1822.1	1758.9	1678.1	1671.1
40°	3892.7	2366.5	1726.4	1793.1	1818.6	1821.2	1780.0	1729.0	1734.3	1691.3	1690.4
42.5°	4058.7	2329.7	1665.8	1709.7	1725.5	1730.8	1699.2	1666.7	1712.3	1684.2	1674.6
45°	4272.9	2338.4	1614.9	1628.0	1657.0	1681.6	1662.3	1622.8	1640.3	1518.3	1477.9
47.5°	4520.6	2394.6	1574.5	1557.8	1607.8	1654.4	1624.5	1564.8	1502.5	1381.3	1358.5
50°	4810.4	2481.6	1537.6	1488.4	1554.3	1617.5	1587.6	1502.5	1408.5	1349.7	1341.8
52.5°	5112.4	2587.8	1500.7	1412.0	1486.7	1589.4	1574.5	1488.4	1372.5	1314.6	1304.0
55°	5454.9	2695.0	1454.2	1323.3	1413.8	1576.2	1568.3	1437.5	1345.3	1312.8	1304.9
57.5°	5880.8	2817.0	1392.7	1231.1	1345.3	1528.8	1504.2	1406.8	1317.2	1292.6	1290.0
60°	6435.8	2997.0	1304.0	1132.8	1261.9	1455.9	1450.7	1362.0	1272.4	1254.8	1251.3
62.5°	7268.2	3294.7	1182.0	1034.4	1168.8	1332.1	1380.4	1301.4	1225.0	1224.1	1225.9
65°	8559.1	3742.6	1049.4	948.4	1074.8	1227.6	1298.7	1239.0	1176.7	1194.2	1196.9
67.5°	10055.4	4114.0	919.4	864.1	979.1	1128.4	1225.0	1176.7	1112.6	1158.2	1159.1
70°	10553.3	3782.1	805.2	780.7	879.9	1032.7	1145.1	1108.2	1043.2	1088.9	1084.5
72°	9820.9	3053.2	731.5	717.4	805.2	953.6	1073.9	1044.1	980.0	1010.7	999.3
72.5°	9590.0	2911.0	713.0	701.6	785.0	933.4	1055.5	1028.3	964.2	990.5	980.0
75°	8554.7	2528.1	612.9	615.6	684.9	835.1	951.9	943.1	877.2	879.9	876.4
77.5°	6204.8	1853.7	516.3	533.9	583.1	734.1	847.4	842.1	770.1	756.9	754.3
80°	2879.4	945.7	420.6	428.5	479.5	613.8	722.7	715.7	657.7	641.0	631.4
82.5°	986.1	449.6	316.1	321.4	371.4	494.4	627.0	622.6	574.3	541.8	521.6
85°	352.1	223.9	221.3	216.0	265.2	389.0	546.2	522.5	451.4	384.6	382.9
87.5°	114.2	95.7	114.2	113.3	154.5	263.4	396.9	338.1	327.5	272.2	266.9
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)