

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: P191377

Luminaire Tested: **GLEON-AF-09-LED-E1-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53419.5 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

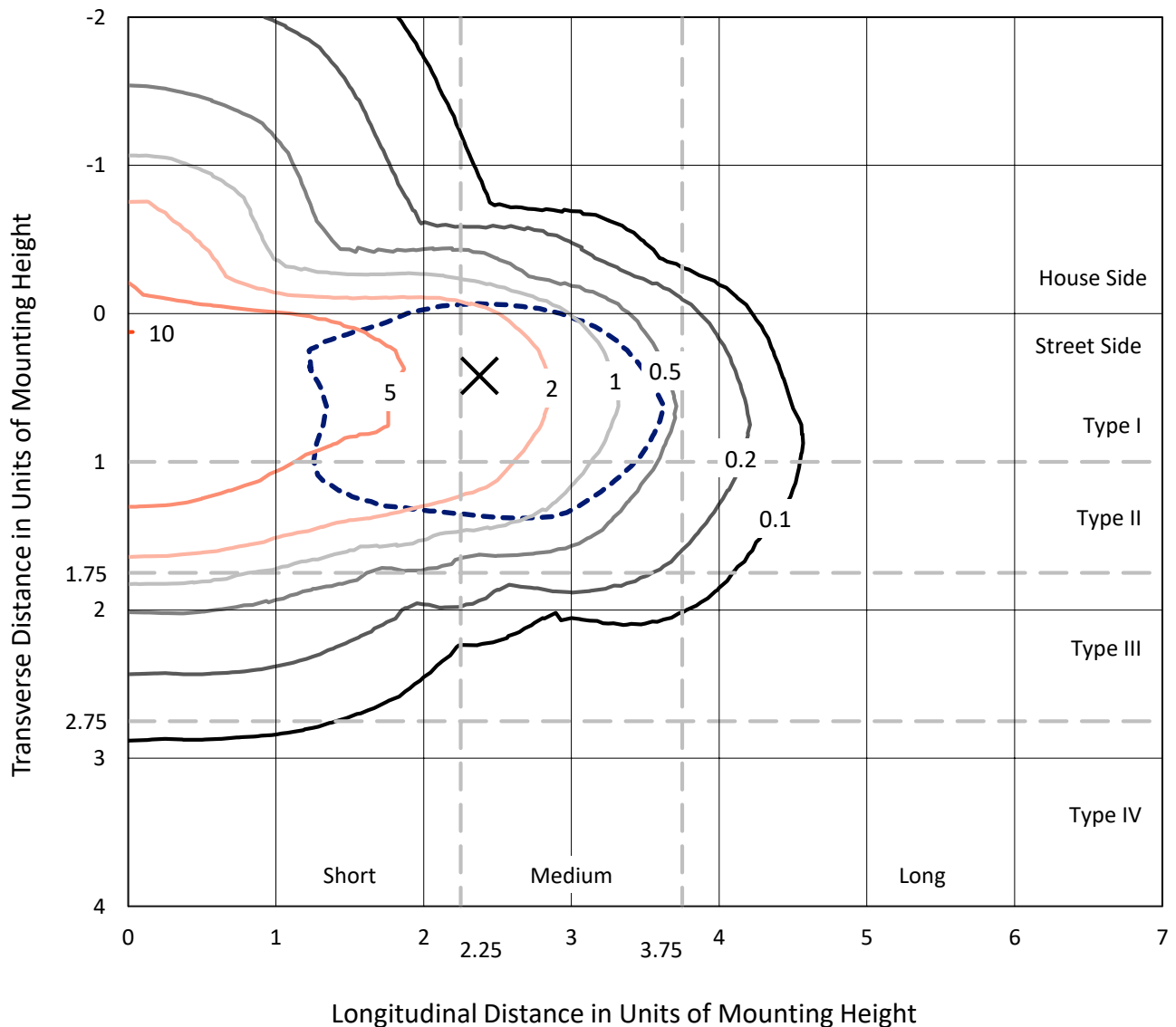


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

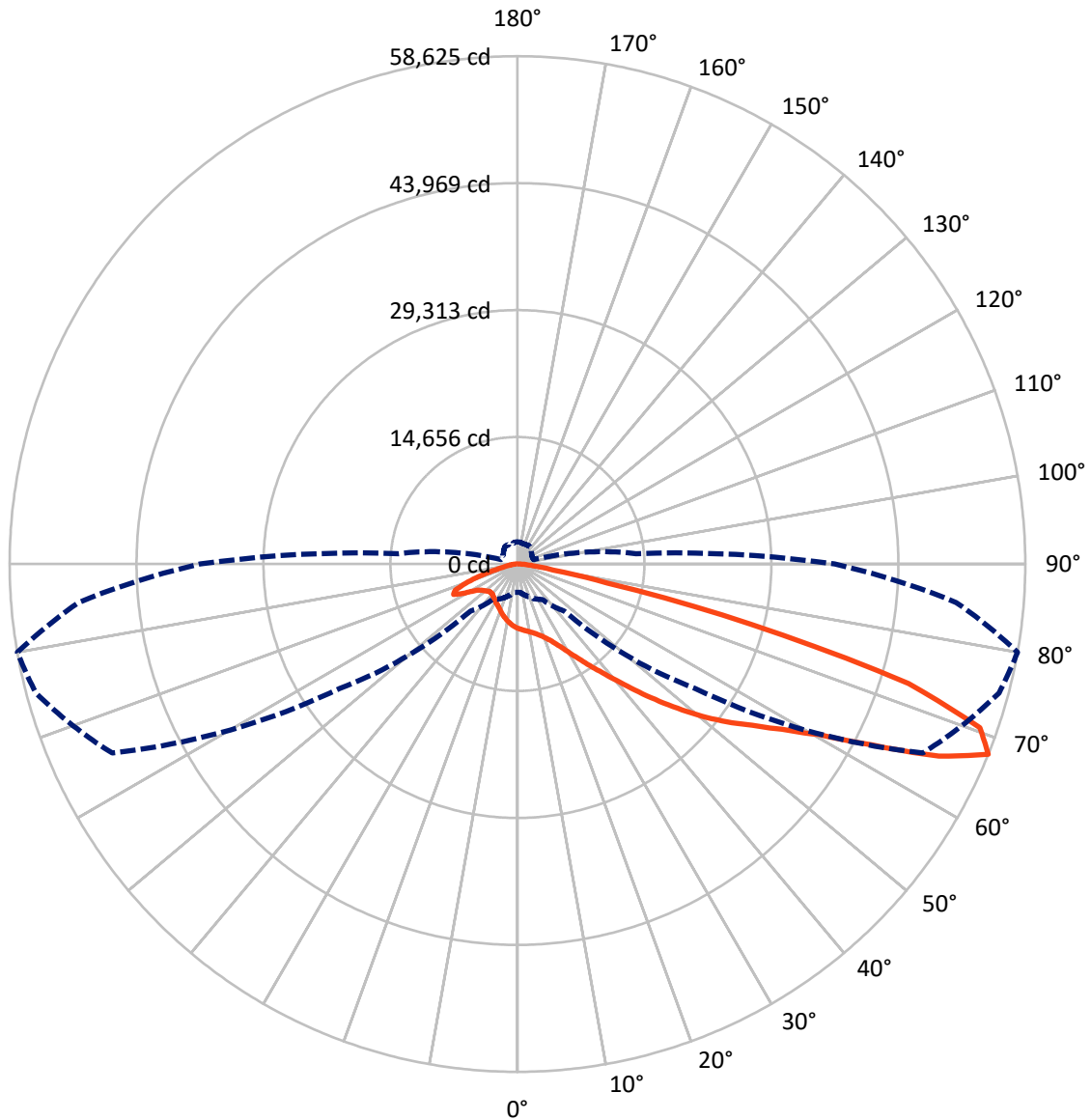


Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9837.8	0.0	9837.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	43581.7	0.0	43581.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	53419.5	0.0	53419.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.6	1.3
10°-20°	1972.1	3.7
20°-30°	3264.3	6.1
30°-40°	5339.6	10.0
40°-50°	8621.3	16.1
50°-60°	12446.6	23.3
60°-70°	13735.6	25.7
70°-80°	6331.3	11.9
80°-90°	1024.0	1.9
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°	53419.5	100.0
0°-180°	53419.5	100.0



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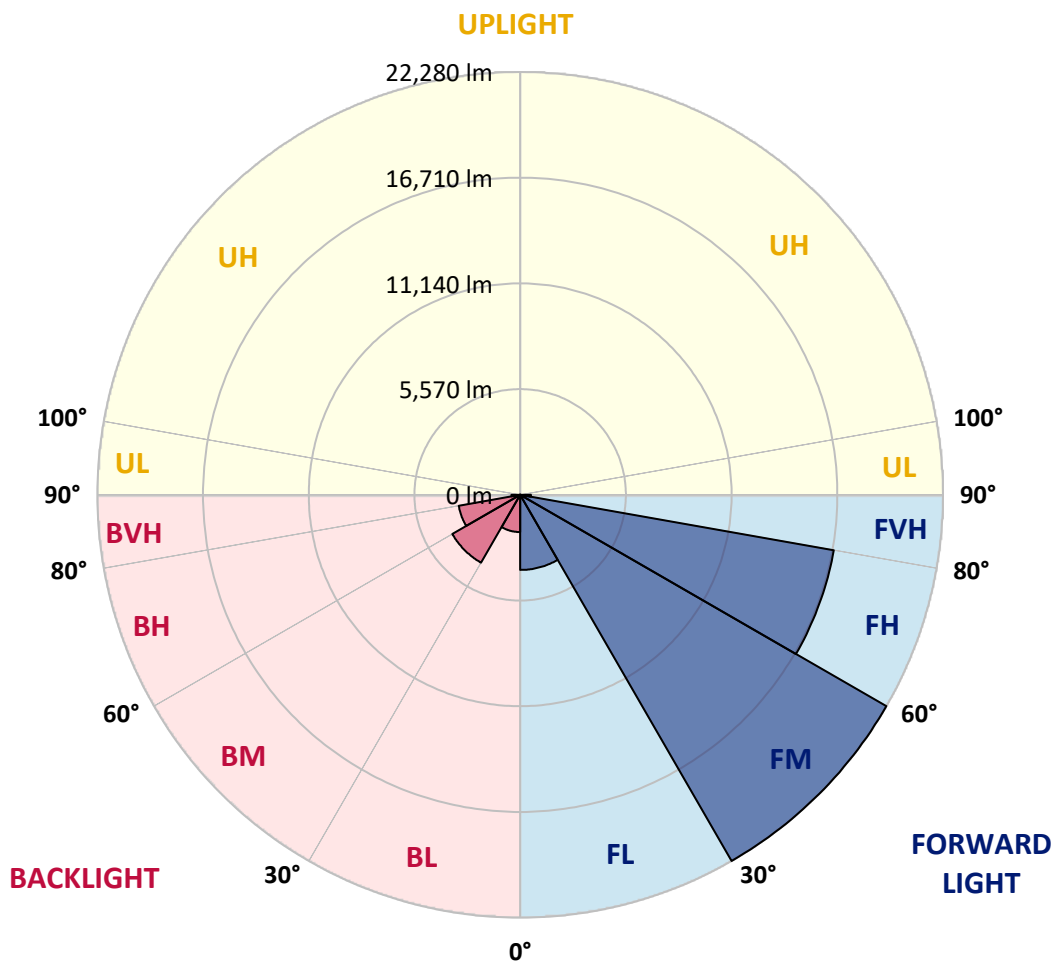
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3958.3	7.4			
FM (30°-60°)	22279.9	41.7			
FH (60°-80°)	16780.5	31.4			G5
FVH (80°-90°)	563.0	1.1			G4/750
BL (0°-30°)	1962.8	3.7	B3/2500		
BM (30°-60°)	4127.6	7.7	B3/5000		
BH (60°-80°)	3286.4	6.2	B4/5000		G4/5000
BVH (80°-90°)	461.0	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5
2.5°	8118.4	8071.1	8079.0	8065.9	8026.4	7958.0	7884.4	7750.3	7610.9	7537.2	7479.4
5°	8797.0	8783.8	8765.4	8723.3	8623.4	8481.4	8305.1	8068.5	7813.4	7679.3	7550.4
7.5°	9304.6	9296.7	9272.9	9246.7	9149.4	8978.4	8712.8	8376.1	8005.4	7821.3	7621.4
10°	9346.6	9359.8	9378.1	9449.2	9462.3	9370.2	9099.4	8691.7	8205.2	7968.6	7713.5
12.5°	8989.0	9017.8	9088.9	9270.3	9462.3	9575.4	9436.0	9023.1	8439.2	8152.6	7829.2
15°	8515.6	8531.3	8618.2	8868.0	9212.5	9562.2	9693.8	9388.6	8741.7	8389.3	8002.7
17.5°	8313.0	8321.0	8381.4	8547.2	8868.0	9367.7	9838.4	9785.8	9112.5	8683.8	8215.7
20°	8210.5	8228.9	8315.7	8478.7	8681.3	9117.8	9859.4	10214.5	9554.4	9052.1	8484.0
22.5°	8502.4	8494.5	8526.1	8607.6	8778.6	9041.6	9843.7	10656.3	10117.2	9525.4	8833.8
25°	9183.5	9212.5	9157.3	9065.2	9120.4	9304.6	9927.8	11134.9	10822.0	10132.9	9291.4
27.5°	10154.0	10125.1	10043.5	9827.9	9714.8	9793.6	10206.6	11650.4	11697.7	10932.4	9896.2
30°	11121.7	11098.1	11019.2	10756.2	10524.8	10459.1	10748.3	12242.1	12741.8	11892.3	10637.9
32.5°	12126.4	12100.1	12026.4	11763.4	11484.7	11332.1	11518.8	12925.9	13972.6	13038.9	11511.0
35°	13365.1	13315.1	13160.0	12794.4	12520.8	12402.6	12489.3	13785.8	15392.6	14396.0	12570.8
37.5°	14530.1	14606.4	14448.6	13943.6	13588.6	13546.5	13643.8	14835.1	16923.3	15913.4	13788.5
40°	15700.4	15713.5	15571.6	15158.6	14793.1	14724.7	14969.2	16108.0	18730.0	17728.0	15269.1
42.5°	16910.1	16936.4	16697.1	16315.8	16047.5	16060.6	16339.5	17599.2	20802.3	19866.1	16973.2
45°	18343.5	18382.8	18119.8	17620.2	17375.6	17867.4	17751.7	19271.8	23074.6	22296.1	18929.9
47.5°	19842.5	19902.9	19703.1	19235.0	18929.9	19605.8	19164.0	21125.9	25520.4	24902.3	21078.5
50°	20660.3	20747.2	20941.7	20907.6	20841.8	20728.8	20739.2	23114.0	28042.5	27616.4	23287.6
52.5°	20221.2	20218.5	20928.6	21791.2	22711.7	22780.0	22659.1	25210.0	30398.8	30269.9	25367.9
55°	18211.9	18348.7	19424.3	21094.3	23608.5	25178.5	25536.1	27611.1	32713.0	32863.0	27479.6
57.5°	14866.7	14979.8	16431.5	18759.0	22398.7	26603.9	29628.2	31101.0	35300.9	36000.4	30291.0
60°	10082.9	10219.7	11758.2	14553.7	19142.9	25809.7	33523.1	37328.5	38398.9	39990.0	34235.8
62.5°	5925.1	6048.7	7303.2	9180.9	13478.1	22119.9	35232.5	46188.6	43319.4	46009.8	40252.9
65°	4078.9	4163.1	4773.2	5714.7	7745.0	14898.3	33112.8	52305.7	50890.8	53468.1	47230.0
67.5°	3282.1	3271.6	3755.5	4397.2	4986.3	7681.8	25039.1	51614.0	57549.7	58625.3	50851.4
70°	2703.6	2693.0	3021.7	3553.0	3984.3	4326.2	13638.6	43556.1	56192.6	56629.2	47516.7
72.5°	2261.7	2272.2	2482.6	2877.0	3268.9	3258.4	5993.5	30640.8	44205.7	47224.7	37878.1
75°	1909.3	1914.6	2054.0	2332.7	2653.5	2624.6	3250.5	16599.8	25696.5	27797.9	20997.0
77.5°	1625.3	1630.5	1720.0	1875.1	2103.9	2093.4	2372.1	7171.7	10719.4	10588.0	7182.2
80°	1449.1	1449.1	1491.2	1520.1	1646.3	1599.0	1759.4	3445.1	4531.3	4184.2	2866.6
82.5°	1136.1	1141.4	1399.1	1388.6	1296.5	1236.0	1236.0	2030.3	2401.1	2219.6	1677.8
85°	639.0	636.5	902.0	1088.7	1141.4	870.5	862.6	1136.1	1307.0	1151.8	812.6
87.5°	273.5	278.8	418.2	483.9	646.9	541.8	533.9	586.5	665.3	575.9	376.0
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°	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5	7421.5
2.5°	7424.2	7355.7	7205.9	7019.2	6850.8	6740.4	6640.5	6495.8	6503.7	6403.8	6330.1
5°	7418.8	7276.9	6929.8	6516.8	6119.7	5833.1	5617.4	5422.8	5375.5	5283.4	5228.2
7.5°	7424.2	7192.7	6608.9	5948.8	5457.0	5094.1	4910.0	4807.5	4783.7	4752.2	4754.8
10°	7442.6	7116.5	6256.5	5417.5	4902.1	4662.8	4618.1	4649.6	4686.4	4697.0	4699.6
12.5°	7484.6	7048.1	5869.9	4944.1	4555.0	4481.3	4557.6	4665.4	4736.5	4770.6	4768.0
15°	7579.3	6995.4	5499.1	4573.4	4363.0	4402.4	4544.5	4697.0	4799.6	4846.8	4849.5
17.5°	7681.8	6919.2	5117.7	4289.3	4221.0	4320.9	4497.1	4675.9	4802.1	4854.7	4865.3
20°	7816.0	6824.5	4718.1	4076.4	4086.8	4199.9	4365.6	4544.5	4683.8	4728.5	4749.6
22.5°	7992.2	6722.0	4368.2	3902.8	3934.3	4021.1	4149.9	4305.1	4426.1	4447.2	4465.5
25°	8228.9	6611.5	4089.5	3744.9	3758.1	3808.0	3894.9	3986.8	4071.0	4047.4	4065.8
27.5°	8547.2	6516.8	3881.7	3600.3	3576.6	3587.2	3631.9	3660.8	3705.5	3639.8	3647.6
30°	8920.5	6414.3	3721.3	3474.0	3408.4	3390.0	3400.4	3416.2	3450.4	3361.0	3347.8
32.5°	9354.5	6290.6	3571.4	3363.7	3271.6	3234.8	3240.0	3282.1	3413.6	3358.3	3329.4
35°	9859.4	6151.3	3413.6	3242.7	3179.5	3127.0	3121.6	3253.2	3645.0	3610.8	3584.5
37.5°	10451.2	6011.9	3255.7	3105.9	3111.1	3053.3	3034.9	3184.8	3689.7	3555.6	3537.2
40°	11203.3	5938.2	3121.6	2961.2	3027.0	3019.1	2982.3	3058.5	3395.2	3150.6	3119.1
42.5°	12134.2	5948.8	3021.7	2806.1	2927.1	3011.3	2953.4	2956.0	3076.9	2892.9	2864.0
45°	13283.5	6072.4	2950.7	2682.5	2813.9	3003.3	2942.8	2900.8	2911.3	2813.9	2798.2
47.5°	14624.7	6327.5	2900.8	2579.9	2706.1	2974.4	2940.2	2885.0	2861.3	2808.7	2795.5
50°	16115.9	6698.3	2864.0	2482.6	2608.8	2927.1	2942.8	2869.2	2842.9	2821.9	2813.9
52.5°	17580.7	7121.7	2808.7	2398.4	2532.6	2869.2	2950.7	2853.4	2824.5	2808.7	2800.8
55°	19213.9	7650.3	2724.5	2327.4	2469.5	2795.5	2950.7	2829.8	2798.2	2800.8	2798.2
57.5°	21420.4	8505.0	2624.6	2267.0	2393.2	2706.1	2900.8	2803.5	2764.0	2766.7	2769.2
60°	24868.1	10011.9	2503.7	2206.5	2298.5	2601.0	2832.3	2745.6	2706.1	2716.7	2719.3
62.5°	29938.6	12223.6	2345.8	2117.1	2198.6	2487.8	2737.7	2671.9	2632.5	2658.9	2658.9
65°	35208.8	14175.0	2151.3	2004.0	2093.4	2364.2	2619.4	2579.9	2540.5	2601.0	2598.3
67.5°	36626.3	13738.5	1956.6	1880.4	1988.2	2227.5	2477.4	2456.3	2435.2	2540.5	2535.2
70°	32536.9	11029.8	1777.8	1754.2	1872.5	2080.3	2324.9	2324.9	2311.7	2390.5	2372.1
72.5°	24789.3	7821.3	1606.9	1620.0	1741.0	1919.8	2159.1	2177.6	2156.5	2196.0	2180.2
75°	13270.3	4476.0	1435.9	1472.7	1577.9	1756.7	1975.0	1993.4	1980.3	1977.7	1985.5
77.5°	4410.4	2188.1	1257.1	1314.9	1407.0	1588.4	1783.1	1812.0	1780.4	1775.1	1772.6
80°	1964.5	1375.5	1059.9	1136.1	1217.6	1396.4	1580.6	1604.2	1570.0	1617.4	1556.9
82.5°	1262.3	904.7	849.5	933.6	1012.5	1204.5	1378.0	1383.3	1351.7	1570.0	1338.6
85°	612.7	560.2	639.0	715.3	783.7	946.7	1141.4	1144.0	1065.1	970.5	936.2
87.5°	305.0	326.1	426.1	494.4	528.6	649.6	831.0	815.3	781.1	710.0	654.8
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)