

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: P269590

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3R-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27921.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
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: 25 FT

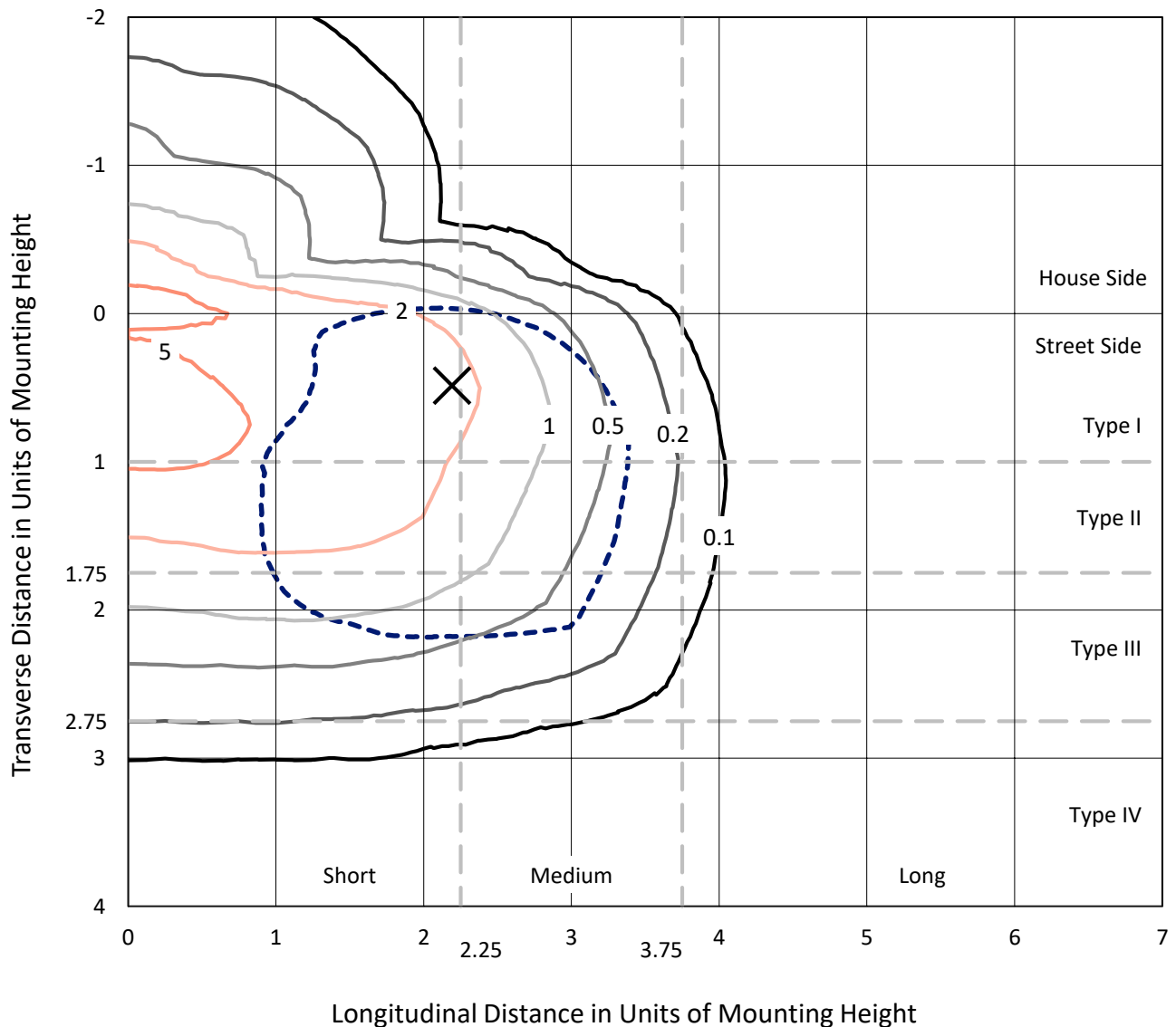


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

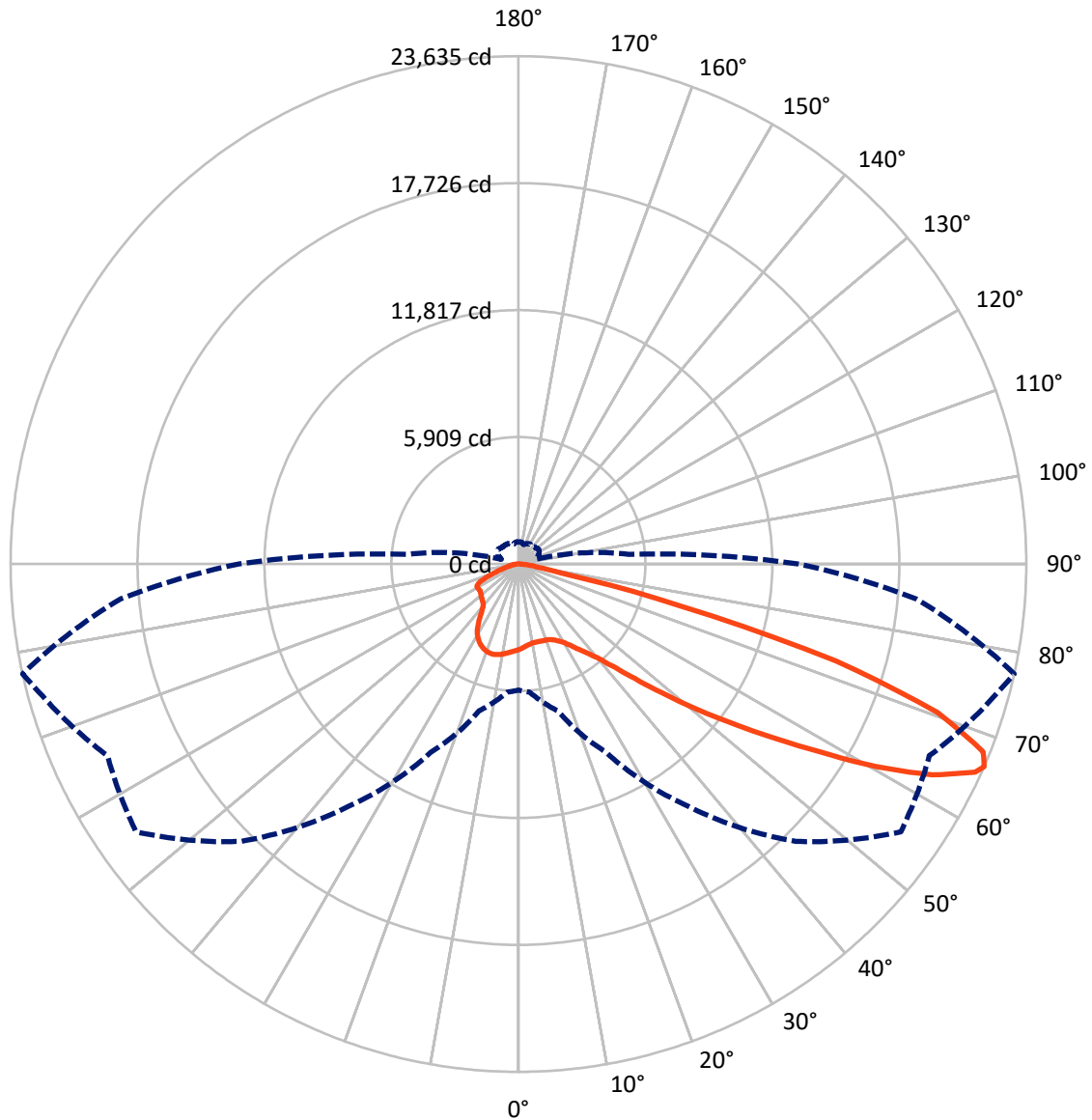


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4770.2	0.0	4770.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	23151.0	0.0	23151.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	27921.2	0.0	27921.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	1.3
10°-20°	1002.9	3.6
20°-30°	1711.6	6.1
30°-40°	2739.9	9.8
40°-50°	4232.9	15.2
50°-60°	6003.7	21.5
60°-70°	8031.3	28.8
70°-80°	3487.8	12.5
80°-90°	355.6	1.3
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°	27921.2	100.0
0°-180°	27921.2	100.0



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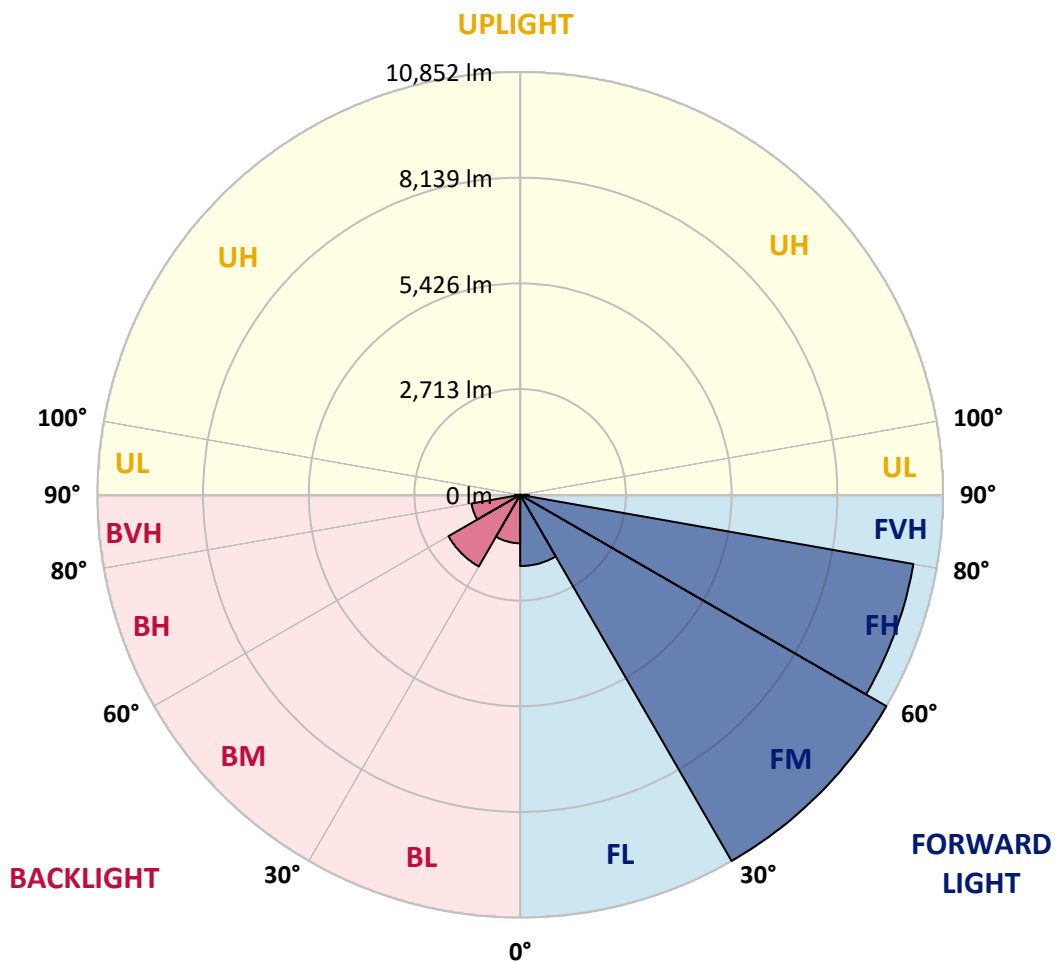
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1827.6	6.5			
FM	(30°-60°)	10851.6	38.9			
FH	(60°-80°)	10248.8	36.7			G4/12000
FVH	(80°-90°)	223.0	0.8			G2/225
BL	(0°-30°)	1242.3	4.4	B3/2500		
BM	(30°-60°)	2124.8	7.6	B2/2500		
BH	(60°-80°)	1270.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	132.6	0.5			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0
2.5°	3519.7	3543.5	3563.3	3581.8	3618.7	3679.5	3749.3	3806.1	3887.9	3903.8	3947.2
5°	3196.6	3196.6	3212.3	3240.0	3290.2	3381.3	3476.4	3602.9	3781.1	3823.2	3939.3
7.5°	3039.5	3040.9	3050.1	3073.9	3117.4	3200.5	3304.8	3453.9	3695.3	3765.2	3963.1
10°	3097.6	3084.4	3064.7	3052.8	3059.4	3108.1	3207.0	3373.3	3642.4	3732.2	4015.9
12.5°	3422.2	3397.1	3328.5	3237.5	3150.4	3114.9	3172.9	3335.0	3620.1	3724.4	4085.9
15°	3952.5	3941.9	3814.1	3625.3	3414.3	3237.5	3197.8	3320.6	3622.8	3733.5	4168.9
17.5°	4617.4	4602.9	4434.0	4159.6	3815.3	3471.1	3286.3	3332.4	3631.9	3749.3	4249.3
20°	5289.0	5244.0	5061.9	4734.8	4292.9	3789.0	3432.8	3362.9	3643.9	3766.6	4333.9
22.5°	5790.2	5753.4	5589.8	5271.8	4762.5	4156.9	3629.3	3415.5	3682.1	3816.5	4437.9
25°	6230.9	6233.5	6071.3	5763.9	5237.5	4547.5	3882.7	3556.7	3779.7	3919.6	4580.5
27.5°	6775.7	6744.0	6592.3	6287.5	5707.1	4941.9	4188.6	3750.7	3924.9	4066.0	4767.8
30°	7427.5	7405.0	7229.6	6883.9	6228.3	5365.4	4538.2	3976.3	4112.1	4258.5	5013.3
32.5°	8194.0	8183.4	8001.4	7556.7	6829.9	5864.1	4948.6	4274.4	4391.9	4543.5	5365.4
35°	9093.7	9095.0	8879.9	8345.7	7488.1	6444.6	5414.3	4658.3	4732.2	4890.6	5784.9
37.5°	9647.7	9715.1	9634.6	9089.7	8233.5	7093.6	6018.5	5167.6	5120.1	5279.7	6234.9
40°	9766.6	9848.3	10102.9	9825.9	9067.3	7808.7	6554.2	5656.9	5597.7	5792.9	6814.1
42.5°	9600.2	9713.7	10251.9	10447.3	9952.5	8690.1	7274.5	6384.0	6308.7	6571.2	7534.4
45°	9501.4	9585.8	10208.5	10770.5	10720.4	9686.1	8191.4	7296.8	7269.2	7613.5	8365.5
47.5°	9329.8	9406.3	10005.3	10845.6	11171.5	10599.0	9292.8	8412.9	8467.1	8918.3	9303.4
50°	9422.2	9453.9	9778.4	10654.3	11302.1	11267.8	10523.7	9705.8	9890.5	10453.8	10365.5
52.5°	9408.9	9490.9	9752.0	10340.4	11319.4	11680.8	11736.1	11147.7	11536.9	12183.4	11543.6
55°	7606.8	7757.3	9441.9	10261.2	11380.0	12085.7	12815.3	12667.5	13393.2	14146.5	12873.4
57.5°	7263.9	7358.8	8293.0	10427.4	11702.0	12858.9	14015.9	14340.5	15554.2	16428.8	14493.4
60°	7196.6	7314.0	8281.0	10630.6	12354.8	14118.8	15795.5	16365.5	18183.4	19141.3	16372.1
62.5°	6986.8	7113.5	8203.2	10604.2	13282.3	15861.6	18073.9	18518.5	20676.8	21608.2	17943.4
65°	6321.9	6440.7	7568.6	10178.2	13907.6	17721.8	20770.5	20492.1	22645.2	23345.7	18727.0
66°	5866.8	5982.8	7068.7	9676.8	13762.6	18249.3	21725.7	21103.0	23085.8	23634.6	18574.0
67.5°	5034.3	5125.3	6097.6	8554.1	12990.7	18397.2	22529.1	21562.0	23132.0	23325.8	17699.2
70°	3180.8	3207.0	3963.1	5905.0	9833.7	15955.2	21306.1	20422.2	21224.3	20699.3	14837.8
72.5°	1379.9	1370.8	1902.4	3003.9	5567.2	10705.8	17234.9	16850.9	16649.1	15451.2	10386.6
75°	767.8	778.4	988.1	1394.4	2262.6	5258.6	11274.4	10789.0	9109.5	7773.2	4709.8
77.5°	616.1	630.6	819.3	989.5	1015.9	1833.8	5275.7	4292.9	2584.5	2073.8	1308.7
80°	486.8	513.2	715.1	770.4	684.7	756.0	1704.4	1362.8	1022.5	938.0	678.1
82.5°	385.3	403.7	613.5	583.1	478.8	509.2	816.6	795.4	664.9	605.5	391.8
85°	277.0	311.4	503.9	439.4	314.0	343.1	542.1	519.8	381.3	311.4	172.8
87.5°	113.5	147.7	356.2	291.6	175.4	159.5	270.5	254.6	180.6	132.0	85.8
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°	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0	3979.0
2.5°	3974.9	4006.6	4047.6	4072.6	4085.9	4095.1	4109.4	4108.2	4112.1	4113.5	4118.8
5°	4001.3	4054.1	4113.5	4129.2	4129.2	4114.7	4100.3	4076.5	4067.3	4064.7	4067.3
7.5°	4070.0	4128.0	4179.5	4160.9	4121.3	4063.4	3988.1	3922.2	3886.5	3874.7	3872.1
10°	4156.9	4227.0	4248.1	4178.0	4062.0	3922.2	3773.2	3664.9	3602.9	3585.8	3580.5
12.5°	4262.5	4328.6	4299.5	4151.7	3936.7	3711.1	3505.2	3332.4	3203.1	3162.3	3159.7
15°	4378.7	4430.1	4328.6	4070.0	3749.3	3417.0	3050.1	2752.0	2591.0	2539.6	2535.6
17.5°	4486.9	4513.3	4311.3	3927.5	3473.7	2935.3	2448.6	2219.1	2163.6	2176.9	2179.4
20°	4579.2	4579.2	4253.4	3722.9	3039.5	2300.7	1993.3	1989.4	2029.0	2068.5	2076.5
22.5°	4680.8	4620.1	4151.7	3434.0	2424.9	1882.6	1837.8	1874.7	1919.5	1963.1	1969.7
25°	4806.1	4653.0	4010.6	2996.0	1906.4	1709.7	1726.9	1757.3	1779.7	1807.4	1811.3
27.5°	4945.9	4695.4	3824.5	2393.2	1654.4	1601.6	1614.8	1625.4	1622.7	1633.3	1636.0
30°	5113.4	4744.0	3570.0	1870.7	1550.1	1509.2	1485.4	1476.3	1476.3	1493.4	1500.0
32.5°	5337.8	4816.6	3204.6	1602.8	1500.0	1443.2	1366.7	1332.5	1345.7	1403.7	1416.8
35°	5584.5	4894.4	2709.7	1511.8	1489.5	1412.9	1294.2	1230.9	1232.1	1286.4	1303.4
37.5°	5853.5	4993.4	2167.5	1494.7	1513.1	1414.2	1255.9	1168.9	1133.2	1133.2	1139.9
40°	6197.9	5094.9	1754.6	1506.5	1563.3	1430.1	1236.2	1120.0	1019.8	1022.5	1027.8
42.5°	6646.5	5182.1	1533.0	1531.7	1624.0	1451.2	1234.8	1055.4	968.4	1027.8	1081.7
45°	7145.2	5225.6	1435.3	1554.1	1672.9	1464.3	1213.7	1044.9	974.9	1151.6	1254.7
47.5°	7719.0	5200.6	1381.2	1562.1	1684.7	1464.3	1190.0	1069.9	1021.2	1333.8	1453.8
50°	8348.3	5128.0	1328.6	1546.3	1680.8	1461.7	1212.4	1094.9	1038.4	1365.5	1448.5
52.5°	9088.4	5067.2	1273.1	1511.8	1653.1	1447.2	1238.9	1084.4	984.2	1241.5	1299.5
55°	9932.7	5084.4	1211.0	1463.1	1609.6	1419.5	1229.6	1042.3	927.4	1093.6	1129.3
57.5°	11012.0	5289.0	1137.3	1401.0	1550.1	1373.4	1196.5	1022.5	910.3	992.1	1013.2
60°	12216.4	5645.0	1044.9	1339.1	1476.3	1299.5	1171.5	1031.7	918.2	984.2	994.8
62.5°	13100.3	5852.3	965.7	1248.0	1376.1	1217.7	1139.9	1043.6	939.3	1011.9	1009.2
65°	13340.4	5511.9	866.8	1114.7	1240.1	1132.0	1100.2	1056.8	948.5	1034.3	1022.5
66°	13004.0	5145.1	823.2	1052.8	1171.5	1089.7	1080.5	1055.4	944.6	1037.0	1017.2
67.5°	12187.3	4393.2	748.0	961.7	1061.9	1026.5	1048.9	1043.6	934.1	1034.3	1006.6
70°	9939.3	2997.4	639.9	800.7	883.9	903.7	988.1	1001.3	899.7	988.1	927.4
72.5°	6944.5	1825.8	565.9	621.4	715.1	770.4	905.0	943.3	853.6	862.8	804.7
75°	3356.2	969.7	513.2	481.5	555.4	643.7	804.7	864.1	780.9	721.7	700.5
77.5°	1046.2	592.3	435.4	387.9	435.4	519.8	672.8	757.2	695.3	604.2	596.4
80°	562.0	435.4	335.1	311.4	344.3	407.7	529.0	632.0	597.6	542.1	484.1
82.5°	370.7	282.2	248.0	241.5	262.6	311.4	393.2	523.7	523.7	464.3	337.8
85°	191.2	172.8	170.1	170.1	183.3	207.1	267.9	403.7	430.1	245.3	203.1
87.5°	95.0	99.0	92.3	96.3	102.9	101.6	128.0	203.1	242.7	149.1	124.1
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)