

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: P191483

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191483
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-05-LED-E1-T3R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25140 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 210
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

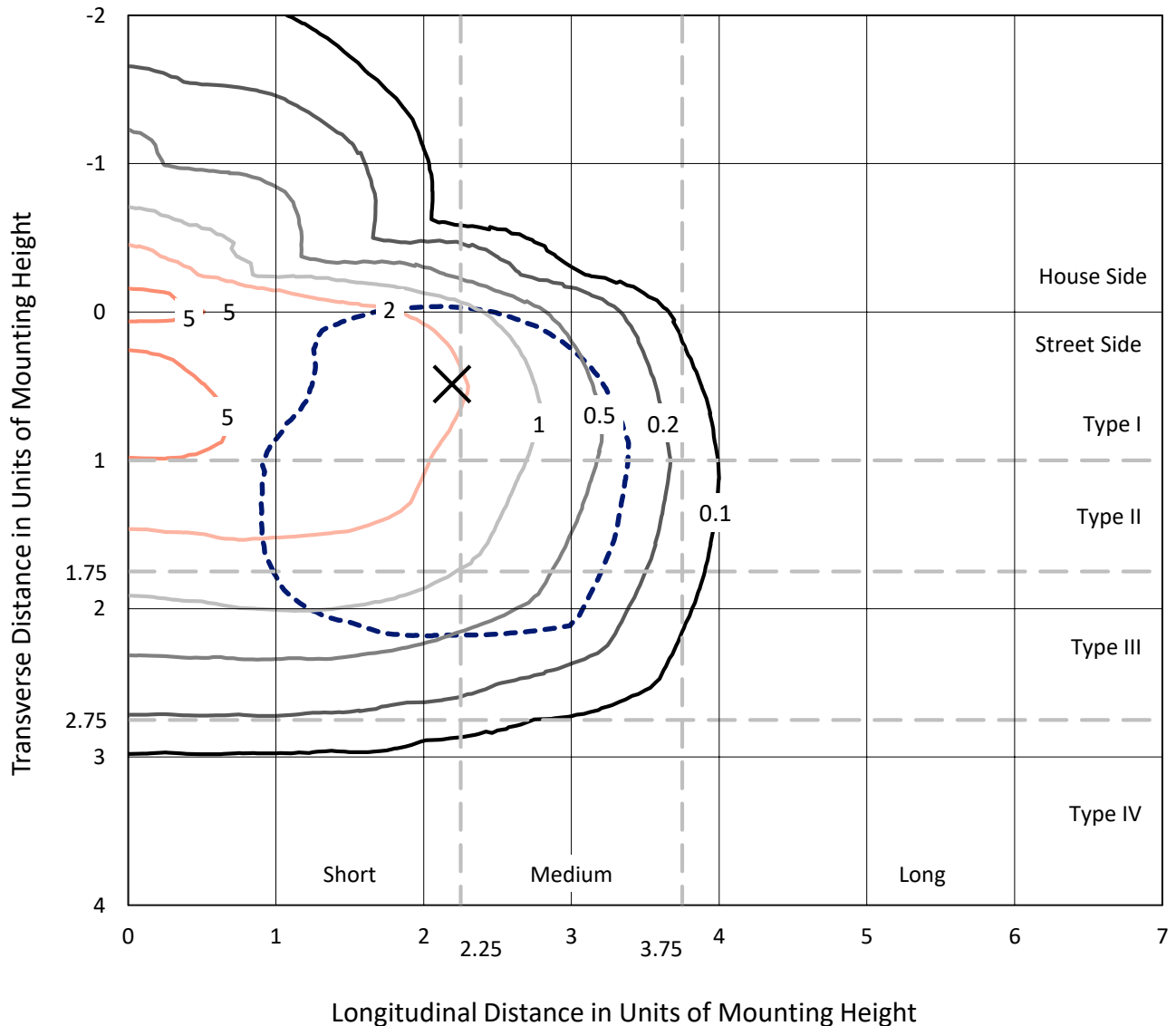


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

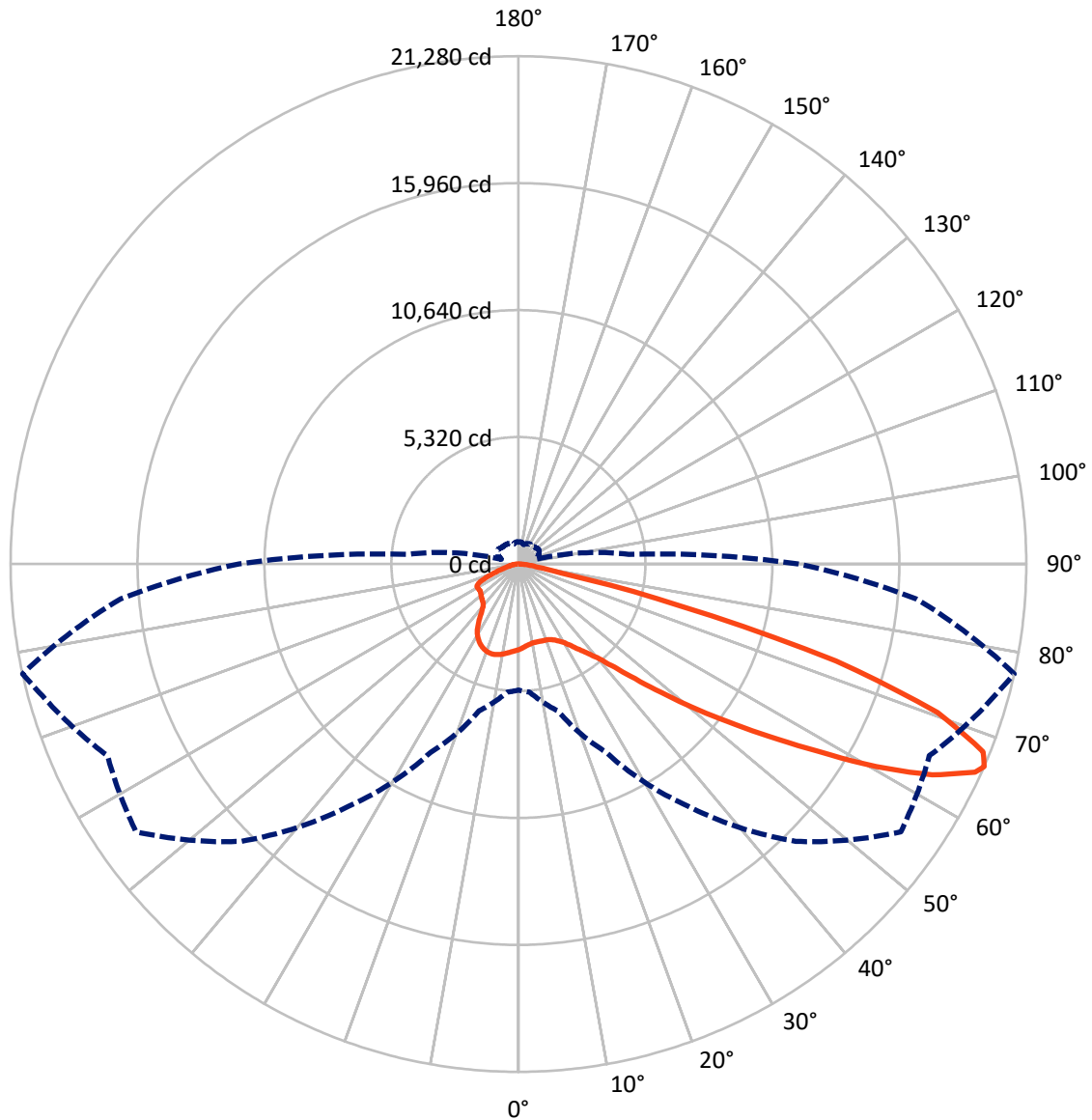


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Full Cutoff

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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	4295.0	0.0	4295.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20845.0	0.0	20845.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	25140.0	0.0	25140.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	1.3
10°-20°	903.0	3.6
20°-30°	1541.1	6.1
30°-40°	2467.0	9.8
40°-50°	3811.3	15.2
50°-60°	5405.7	21.5
60°-70°	7231.3	28.8
70°-80°	3140.4	12.5
80°-90°	320.2	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°	25140.0	100.0
0°-180°	25140.0	100.0



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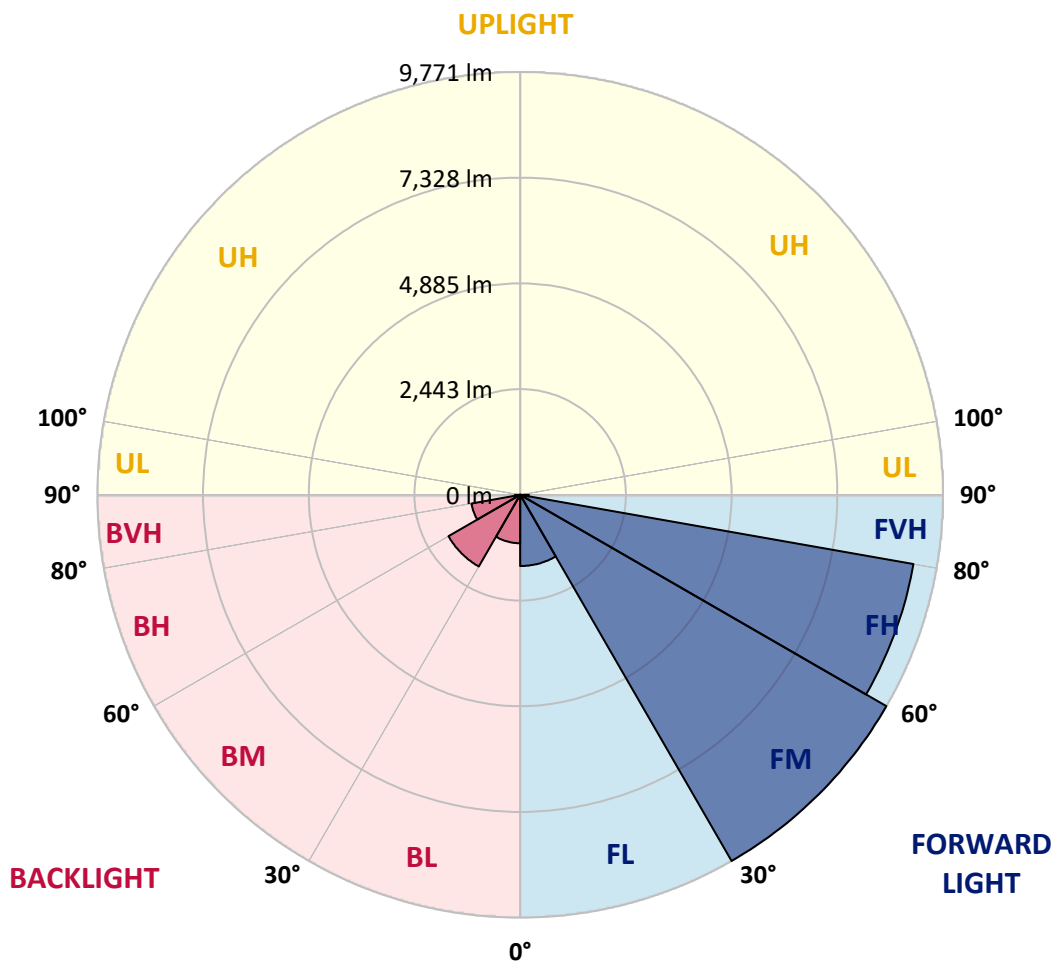
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.5	6.5			
FM	(30°-60°)	9770.7	38.9			
FH	(60°-80°)	9227.9	36.7			G4/12000
FVH	(80°-90°)	200.8	0.8			G2/225
BL	(0°-30°)	1118.6	4.4	B3/2500		
BM	(30°-60°)	1913.2	7.6	B2/2500		
BH	(60°-80°)	1143.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	119.4	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°	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6
2.5°	3169.2	3190.6	3208.4	3225.1	3258.3	3312.9	3375.8	3427.0	3500.6	3514.9	3554.0
5°	2878.2	2878.2	2892.4	2917.4	2962.5	3044.5	3130.0	3244.1	3404.4	3442.4	3547.0
7.5°	2736.8	2738.0	2746.3	2767.7	2806.9	2881.8	2975.6	3109.8	3327.1	3390.2	3568.4
10°	2789.1	2777.2	2759.4	2748.7	2754.6	2798.6	2887.7	3037.3	3279.7	3360.5	3615.8
12.5°	3081.3	3058.7	2996.9	2915.0	2836.6	2804.5	2856.8	3002.9	3259.4	3353.3	3678.8
15°	3558.8	3549.3	3434.0	3264.2	3074.2	2915.0	2879.4	2989.9	3261.9	3361.6	3753.6
17.5°	4157.5	4144.4	3992.4	3745.3	3435.3	3125.2	2959.0	3000.5	3270.2	3375.8	3826.0
20°	4762.1	4721.7	4557.8	4263.2	3865.3	3411.5	3090.8	3027.8	3280.9	3391.3	3902.1
22.5°	5213.5	5180.2	5032.9	4746.7	4288.2	3743.0	3267.8	3075.4	3315.3	3436.5	3996.0
25°	5610.3	5612.6	5466.5	5189.7	4715.8	4094.6	3495.8	3202.4	3403.3	3529.1	4124.2
27.5°	6100.9	6072.3	5935.7	5661.3	5138.7	4449.7	3771.4	3377.1	3533.9	3660.9	4292.9
30°	6687.6	6667.4	6509.4	6198.3	5607.9	4831.0	4086.2	3580.2	3702.6	3834.4	4513.9
32.5°	7377.7	7368.3	7204.3	6804.1	6149.6	5280.1	4455.7	3848.6	3954.4	4091.0	4831.0
35°	8187.9	8189.1	7995.5	7514.4	6742.3	5802.7	4875.0	4194.3	4260.8	4403.4	5208.8
37.5°	8686.8	8747.4	8674.9	8184.3	7413.4	6387.1	5419.0	4652.8	4610.0	4753.8	5613.9
40°	8793.7	8867.3	9096.6	8847.2	8164.2	7030.9	5901.3	5093.6	5040.1	5215.9	6135.2
42.5°	8644.0	8746.2	9230.8	9406.6	8961.2	7824.4	6549.9	5748.1	5680.3	5916.7	6783.8
45°	8554.9	8630.9	9191.6	9697.7	9652.6	8721.3	7375.4	6570.0	6545.0	6855.1	7532.2
47.5°	8400.5	8469.4	9008.7	9765.4	10058.8	9543.2	8367.2	7575.0	7623.6	8030.0	8376.7
50°	8483.6	8512.2	8804.4	9593.1	10176.4	10145.5	9475.5	8739.1	8905.4	9412.6	9333.0
52.5°	8471.8	8545.4	8780.6	9310.4	10191.8	10517.3	10567.2	10037.4	10387.8	10969.8	10393.8
55°	6849.2	6984.6	8501.5	9239.2	10246.5	10881.9	11538.9	11405.8	12059.2	12737.4	11591.1
57.5°	6540.3	6625.9	7466.8	9388.8	10536.3	11578.1	12619.8	12912.0	14004.8	14792.4	13049.8
60°	6479.8	6585.5	7456.2	9571.8	11124.3	12712.4	14222.2	14735.4	16372.2	17234.6	14741.3
62.5°	6290.8	6404.9	7386.1	9548.0	11959.3	14281.6	16273.6	16673.9	18617.3	19455.9	16156.1
65°	5692.2	5799.1	6814.7	9164.3	12522.4	15956.5	18701.6	18451.0	20389.6	21020.3	16861.6
66°	5282.4	5387.0	6364.5	8712.9	12391.7	16431.7	19561.6	19000.9	20786.3	21280.4	16723.8
67.5°	4532.9	4614.8	5490.3	7702.1	11696.8	16564.6	20285.0	19414.3	20827.9	21002.5	15936.2
70°	2864.0	2887.7	3568.4	5316.9	8854.3	14365.9	19183.9	18388.1	19110.3	18637.4	13359.8
72.5°	1242.5	1234.2	1712.9	2704.8	5012.8	9639.5	15518.2	15172.5	14990.7	13912.1	9352.0
75°	691.3	700.8	889.7	1255.6	2037.2	4734.8	10151.5	9714.2	8202.1	6998.8	4240.6
77.5°	554.7	567.8	737.6	890.9	914.6	1651.1	4750.3	3865.3	2327.0	1867.3	1178.3
80°	438.3	462.1	643.8	693.7	616.5	680.7	1534.7	1227.0	920.6	844.5	610.6
82.5°	346.9	363.5	552.4	525.1	431.2	458.5	735.3	716.3	598.6	545.2	352.8
85°	249.5	280.3	453.8	395.6	282.7	308.8	488.3	468.0	343.3	280.3	155.6
87.5°	102.2	133.1	320.7	262.5	157.9	143.7	243.5	229.2	162.8	118.8	77.2
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°	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6	3582.6
2.5°	3579.0	3607.5	3644.4	3666.9	3678.8	3687.1	3700.2	3699.0	3702.6	3703.7	3708.5
5°	3602.7	3650.3	3703.7	3718.0	3718.0	3704.9	3691.8	3670.4	3662.2	3659.8	3662.2
7.5°	3664.5	3716.8	3763.1	3746.5	3710.9	3658.6	3590.9	3531.5	3499.4	3488.8	3486.3
10°	3743.0	3805.9	3824.9	3761.9	3657.5	3531.5	3397.2	3299.8	3244.1	3228.6	3223.8
12.5°	3838.0	3897.3	3871.3	3738.2	3544.5	3341.5	3156.1	3000.5	2884.1	2847.3	2844.9
15°	3942.5	3988.8	3897.3	3664.5	3375.8	3076.5	2746.3	2477.9	2332.9	2286.6	2283.0
17.5°	4039.9	4063.7	3881.9	3536.2	3127.7	2643.0	2204.7	1997.9	1948.1	1960.0	1962.3
20°	4123.0	4123.0	3829.6	3352.1	2736.8	2071.6	1794.9	1791.3	1826.9	1862.6	1869.6
22.5°	4214.6	4159.8	3738.2	3092.0	2183.3	1695.0	1654.7	1688.0	1728.4	1767.6	1773.5
25°	4327.4	4189.6	3611.1	2697.6	1716.4	1539.4	1554.9	1582.2	1602.5	1627.4	1630.9
27.5°	4453.3	4227.5	3443.6	2154.7	1489.6	1442.1	1453.9	1463.4	1461.1	1470.6	1472.9
30°	4604.1	4271.5	3214.3	1684.4	1395.7	1358.9	1337.5	1329.2	1329.2	1344.7	1350.6
32.5°	4806.0	4336.9	2885.3	1443.3	1350.6	1299.6	1230.6	1199.7	1211.6	1263.9	1275.7
35°	5028.2	4407.0	2439.8	1361.2	1341.1	1272.2	1165.2	1108.3	1109.5	1158.2	1173.6
37.5°	5270.5	4496.1	1951.7	1345.8	1362.5	1273.4	1130.9	1052.4	1020.4	1020.4	1026.3
40°	5580.5	4587.5	1579.8	1356.5	1407.6	1287.6	1113.0	1008.5	918.2	920.6	925.4
42.5°	5984.5	4665.9	1380.3	1379.1	1462.2	1306.6	1111.8	950.3	871.9	925.4	974.1
45°	6433.4	4705.1	1292.4	1399.3	1506.2	1318.5	1092.8	940.8	877.8	1037.0	1129.6
47.5°	6950.1	4682.6	1243.7	1406.5	1516.9	1318.5	1071.4	963.3	919.4	1200.9	1309.0
50°	7516.7	4617.2	1196.1	1392.1	1513.4	1316.1	1091.6	985.9	934.9	1229.4	1304.3
52.5°	8183.1	4562.6	1146.3	1361.2	1488.4	1303.0	1115.4	976.4	886.2	1117.8	1170.1
55°	8943.4	4578.0	1090.5	1317.4	1449.2	1278.2	1107.0	938.5	835.0	984.7	1016.8
57.5°	9915.1	4762.1	1024.0	1261.5	1395.7	1236.5	1077.4	920.6	819.6	893.2	912.3
60°	10999.6	5082.8	940.8	1205.6	1329.2	1170.1	1054.9	928.9	826.7	886.2	895.6
62.5°	11795.4	5269.3	869.5	1123.7	1238.9	1096.4	1026.3	939.6	845.8	911.0	908.7
65°	12011.6	4962.8	780.4	1003.7	1116.6	1019.2	990.6	951.4	854.1	931.3	920.6
66°	11708.7	4632.6	741.2	947.9	1054.9	981.2	972.8	950.3	850.5	933.6	915.8
67.5°	10973.4	3955.5	673.5	865.9	956.3	924.1	944.4	939.6	841.0	931.3	906.3
70°	8949.3	2698.9	576.1	721.1	795.9	813.7	889.7	901.6	810.1	889.7	835.0
72.5°	6252.9	1644.0	509.6	559.5	643.8	693.7	814.9	849.4	768.5	776.8	724.6
75°	3021.9	873.1	462.1	433.5	500.1	579.7	724.6	778.1	703.2	649.8	630.8
77.5°	941.9	533.4	392.0	349.2	392.0	468.0	605.8	681.8	626.0	544.0	536.9
80°	506.1	392.0	301.7	280.3	310.1	367.0	476.3	569.0	538.1	488.3	436.0
82.5°	333.8	254.2	223.3	217.4	236.4	280.3	353.9	471.6	471.6	418.1	304.1
85°	172.3	155.6	153.2	153.2	165.1	186.5	241.1	363.5	387.3	221.0	182.9
87.5°	85.5	89.1	83.2	86.7	92.7	91.5	115.2	182.9	218.6	134.2	111.7
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)