

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: P192283

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192283
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 24576 lumens
Efficiency: N/A
Efficacy: 117.0 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

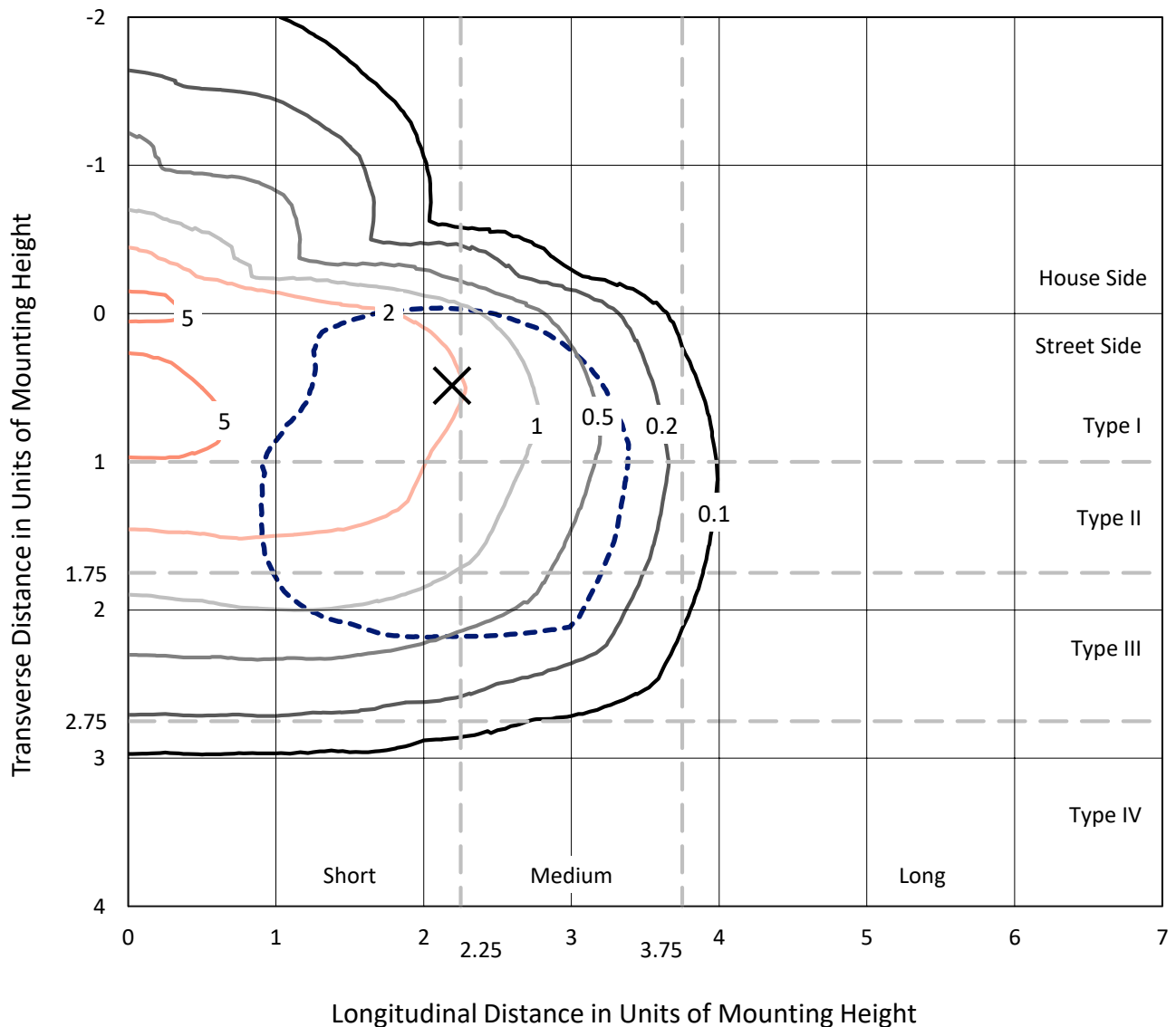


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Iso-Footcandle Lines of Horizontal Illumination

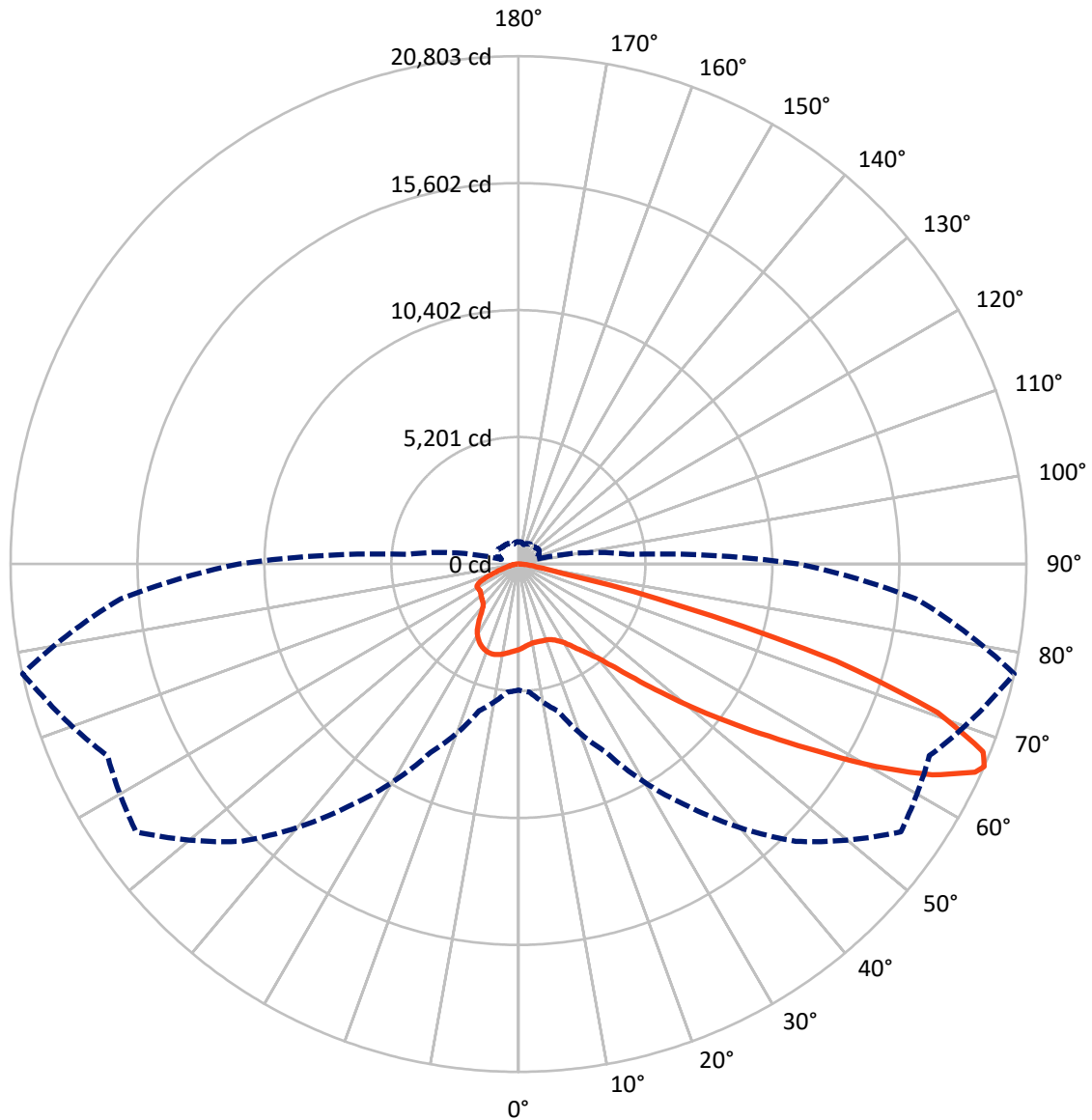
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	4198.6	0.0	4198.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20377.4	0.0	20377.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	24576.0	0.0	24576.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.3
10°-20°	882.7	3.6
20°-30°	1506.5	6.1
30°-40°	2411.6	9.8
40°-50°	3725.7	15.2
50°-60°	5284.4	21.5
60°-70°	7069.1	28.8
70°-80°	3070.0	12.5
80°-90°	313.0	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°	24576.0	100.0
0°-180°	24576.0	100.0



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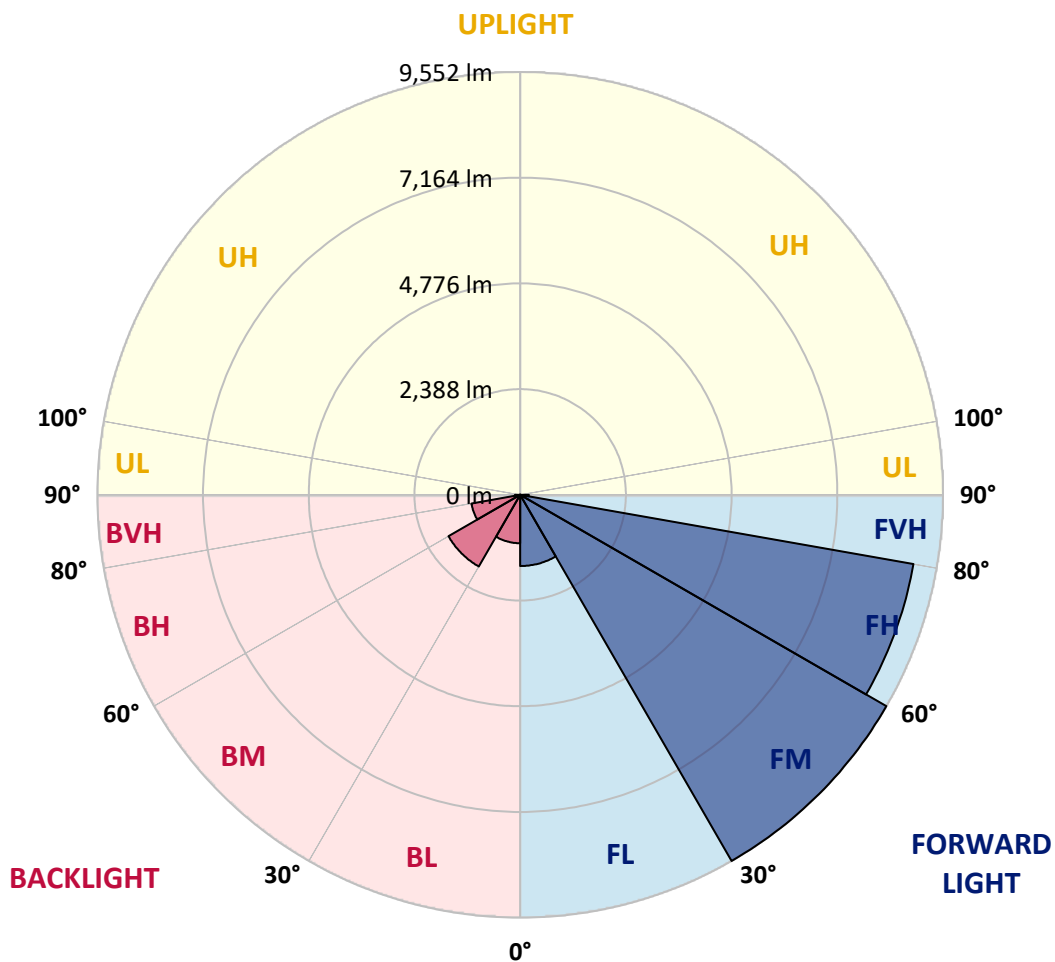
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1608.6	6.5			
FM	(30°-60°)	9551.5	38.9			
FH	(60°-80°)	9020.9	36.7			G4/12000
FVH	(80°-90°)	196.3	0.8			G2/225
BL	(0°-30°)	1093.5	4.4	B3/2500		
BM	(30°-60°)	1870.3	7.6	B2/2500		
BH	(60°-80°)	1118.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	116.7	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°	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2
2.5°	3098.1	3119.0	3136.4	3152.7	3185.2	3238.6	3300.1	3350.1	3422.1	3436.0	3474.3
5°	2813.6	2813.6	2827.5	2851.9	2896.0	2976.2	3059.8	3171.3	3328.0	3365.2	3467.4
7.5°	2675.4	2676.6	2684.7	2705.6	2743.9	2817.1	2908.8	3040.0	3252.5	3314.1	3488.3
10°	2726.5	2714.9	2697.5	2687.0	2692.8	2735.8	2822.9	2969.2	3206.1	3285.1	3534.7
12.5°	3012.2	2990.1	2929.7	2849.6	2773.0	2741.6	2792.7	2935.5	3186.3	3278.1	3596.3
15°	3479.0	3469.7	3357.0	3191.0	3005.2	2849.6	2814.8	2922.8	3188.7	3286.2	3669.4
17.5°	4064.2	4051.4	3902.8	3661.3	3358.2	3055.1	2892.6	2933.2	3196.8	3300.1	3740.2
20°	4655.3	4615.8	4455.5	4167.6	3778.6	3335.0	3021.5	2959.9	3207.3	3315.2	3814.6
22.5°	5096.5	5064.0	4920.0	4640.2	4192.0	3659.0	3194.5	3006.4	3240.9	3359.4	3906.3
25°	5484.4	5486.7	5343.9	5073.3	4610.0	4002.7	3417.4	3130.6	3326.9	3449.9	4031.7
27.5°	5964.0	5936.1	5802.5	5534.3	5023.4	4349.9	3686.8	3301.3	3454.6	3578.8	4196.6
30°	6537.6	6517.8	6363.4	6059.2	5482.1	4722.6	3994.5	3499.9	3619.5	3748.4	4412.6
32.5°	7212.2	7203.0	7042.7	6651.4	6011.6	5161.6	4355.7	3762.3	3865.7	3999.2	4722.6
35°	8004.2	8005.4	7816.1	7345.8	6591.0	5672.5	4765.6	4100.2	4165.2	4304.6	5091.9
37.5°	8491.9	8551.1	8480.3	8000.7	7247.1	6243.8	5297.4	4548.4	4506.6	4647.1	5487.9
40°	8596.4	8668.4	8892.5	8648.7	7981.0	6873.2	5768.9	4979.3	4927.0	5098.9	5997.6
42.5°	8450.1	8550.0	9023.7	9195.6	8760.1	7648.9	6402.9	5619.1	5552.9	5784.0	6631.6
45°	8363.0	8437.3	8985.4	9480.1	9436.0	8525.6	7209.9	6422.6	6398.2	6701.3	7363.2
47.5°	8212.0	8279.4	8806.6	9546.3	9833.1	9329.1	8179.5	7405.0	7452.6	7849.8	8188.8
50°	8293.3	8321.2	8606.9	9377.9	9948.1	9917.9	9262.9	8543.0	8705.6	9201.4	9123.6
52.5°	8281.7	8353.7	8583.6	9101.5	9963.1	10281.3	10330.1	9812.2	10154.7	10723.7	10160.6
55°	6695.5	6827.9	8310.8	9031.9	10016.6	10637.8	11280.0	11149.9	11788.6	12451.6	11331.0
57.5°	6393.6	6477.2	7299.3	9178.2	10299.9	11318.3	12336.7	12622.3	13690.6	14460.5	12757.0
60°	6334.4	6437.7	7288.9	9357.0	10874.7	12427.2	13903.1	14404.8	16004.9	16847.9	14410.6
62.5°	6149.7	6261.2	7220.4	9333.8	11691.0	13961.2	15908.5	16299.8	18199.6	19019.4	15793.6
65°	5564.5	5669.0	6661.8	8958.7	12241.4	15598.5	18282.0	18037.0	19932.1	20548.7	16483.3
66°	5163.9	5266.1	6221.7	8517.4	12113.7	16063.0	19122.7	18574.6	20319.9	20803.0	16348.6
67.5°	4431.2	4511.3	5367.1	7529.3	11434.4	16193.0	19829.9	18978.7	20360.6	20531.3	15578.7
70°	2799.7	2822.9	3488.3	5197.6	8655.6	14043.6	18753.5	17975.5	18681.5	18219.3	13060.1
72.5°	1214.6	1206.5	1674.5	2644.1	4900.3	9423.2	15170.0	14832.1	14654.4	13600.0	9142.2
75°	675.8	685.1	869.7	1227.4	1991.5	4628.6	9923.7	9496.3	8018.1	6841.8	4145.5
77.5°	542.3	555.1	721.1	870.9	894.1	1614.1	4643.7	3778.6	2274.8	1825.4	1151.9
80°	428.5	451.7	629.4	678.1	602.7	665.4	1500.3	1199.5	899.9	825.6	596.9
82.5°	339.1	355.3	540.0	513.3	421.5	448.2	718.8	700.2	585.2	533.0	344.9
85°	243.9	274.0	443.6	386.7	276.4	301.9	477.3	457.5	335.6	274.0	152.1
87.5°	99.9	130.1	313.5	256.6	154.4	140.5	238.0	224.1	159.1	116.1	75.5
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°	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2	3502.2
2.5°	3498.7	3526.6	3562.6	3584.6	3596.3	3604.4	3617.2	3616.0	3619.5	3620.6	3625.3
5°	3521.9	3568.4	3620.6	3634.6	3634.6	3621.8	3609.0	3588.1	3580.0	3577.7	3580.0
7.5°	3582.3	3633.4	3678.7	3662.4	3627.6	3576.5	3510.3	3452.3	3420.9	3410.5	3408.1
10°	3659.0	3720.5	3739.1	3677.5	3575.4	3452.3	3321.0	3225.8	3171.3	3156.2	3151.5
12.5°	3751.9	3809.9	3784.4	3654.3	3465.0	3266.5	3085.3	2933.2	2819.4	2783.4	2781.1
15°	3854.0	3899.3	3809.9	3582.3	3300.1	3007.5	2684.7	2422.3	2280.6	2235.3	2231.8
17.5°	3949.3	3972.5	3794.8	3456.9	3057.5	2583.7	2155.2	1953.1	1904.4	1916.0	1918.3
20°	4030.5	4030.5	3743.7	3276.9	2675.4	2025.1	1754.6	1751.1	1785.9	1820.8	1827.7
22.5°	4120.0	4066.5	3654.3	3022.6	2134.3	1657.0	1617.6	1650.1	1689.6	1727.9	1733.7
25°	4230.3	4095.6	3530.1	2637.1	1677.9	1504.9	1520.0	1546.7	1566.5	1590.9	1594.3
27.5°	4353.4	4132.7	3366.3	2106.4	1456.2	1409.7	1421.3	1430.6	1428.3	1437.6	1439.9
30°	4500.8	4175.7	3142.2	1646.6	1364.4	1328.4	1307.5	1299.4	1299.4	1314.5	1320.3
32.5°	4698.2	4239.6	2820.6	1410.9	1320.3	1270.4	1203.0	1172.8	1184.4	1235.5	1247.1
35°	4915.4	4308.1	2385.1	1330.7	1311.0	1243.7	1139.1	1083.4	1084.6	1132.2	1147.3
37.5°	5152.3	4395.2	1907.9	1315.6	1331.9	1244.8	1105.5	1028.8	997.5	997.5	1003.3
40°	5455.3	4484.6	1544.4	1326.1	1376.0	1258.7	1088.0	985.9	897.6	899.9	904.6
42.5°	5850.2	4561.2	1349.3	1348.2	1429.4	1277.3	1086.9	929.0	852.3	904.6	952.2
45°	6289.1	4599.5	1263.4	1367.9	1472.4	1288.9	1068.3	919.7	858.1	1013.7	1104.3
47.5°	6794.2	4577.5	1215.8	1374.9	1482.9	1288.9	1047.4	941.7	898.8	1174.0	1279.6
50°	7348.1	4513.6	1169.3	1360.9	1479.4	1286.6	1067.1	963.8	913.9	1201.8	1275.0
52.5°	7999.5	4460.2	1120.6	1330.7	1455.0	1273.8	1090.4	954.5	866.3	1092.7	1143.8
55°	8742.7	4475.3	1066.0	1287.8	1416.7	1249.5	1082.2	917.4	816.3	962.6	994.0
57.5°	9692.6	4655.3	1001.0	1233.2	1364.4	1208.8	1053.2	899.9	801.2	873.2	891.8
60°	10752.8	4968.8	919.7	1178.6	1299.4	1143.8	1031.2	908.1	808.2	866.3	875.5
62.5°	11530.8	5151.1	850.0	1098.5	1211.1	1071.8	1003.3	918.5	826.8	890.6	888.3
65°	11742.1	4851.5	762.9	981.2	1091.5	996.3	968.4	930.1	834.9	910.4	899.9
66°	11446.0	4528.7	724.6	926.6	1031.2	959.2	951.0	929.0	831.4	912.7	895.3
67.5°	10727.2	3866.8	658.4	846.5	934.8	903.4	923.2	918.5	822.1	910.4	886.0
70°	8748.5	2638.3	563.2	704.9	778.0	795.4	869.7	881.4	791.9	869.7	816.3
72.5°	6112.6	1607.1	498.2	546.9	629.4	678.1	796.6	830.3	751.3	759.4	708.3
75°	2954.1	853.5	451.7	423.8	488.9	566.7	708.3	760.6	687.4	635.2	616.6
77.5°	920.8	521.4	383.2	341.4	383.2	457.5	592.2	666.5	612.0	531.8	524.9
80°	494.7	383.2	294.9	274.0	303.1	358.8	465.6	556.2	526.0	477.3	426.2
82.5°	326.3	248.5	218.3	212.5	231.1	274.0	346.0	461.0	461.0	408.7	297.3
85°	168.4	152.1	149.8	149.8	161.4	182.3	235.7	355.3	378.6	216.0	178.8
87.5°	83.6	87.1	81.3	84.8	90.6	89.4	112.6	178.8	213.7	131.2	109.2
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)