

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: P191268

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62823.5 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

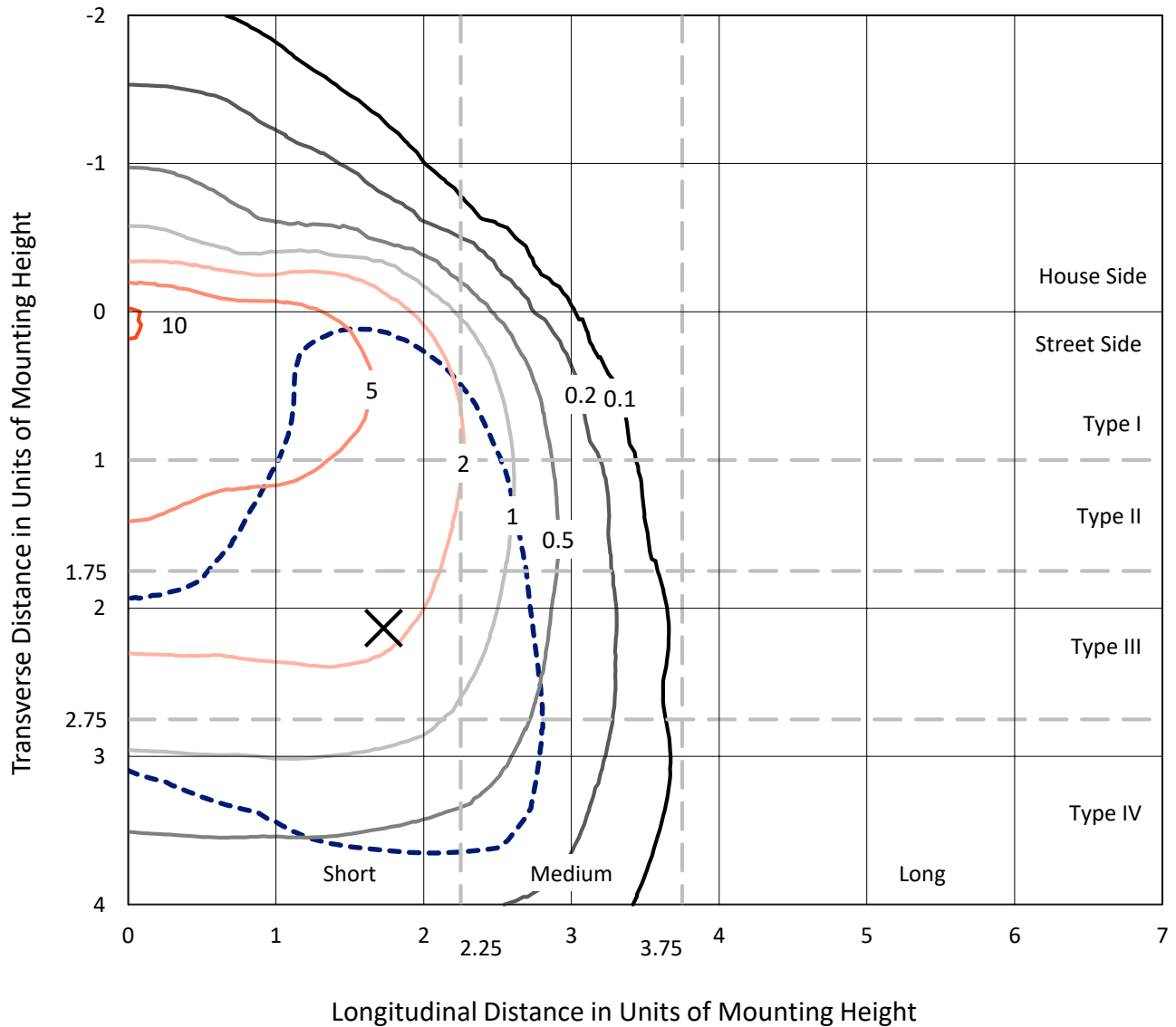
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

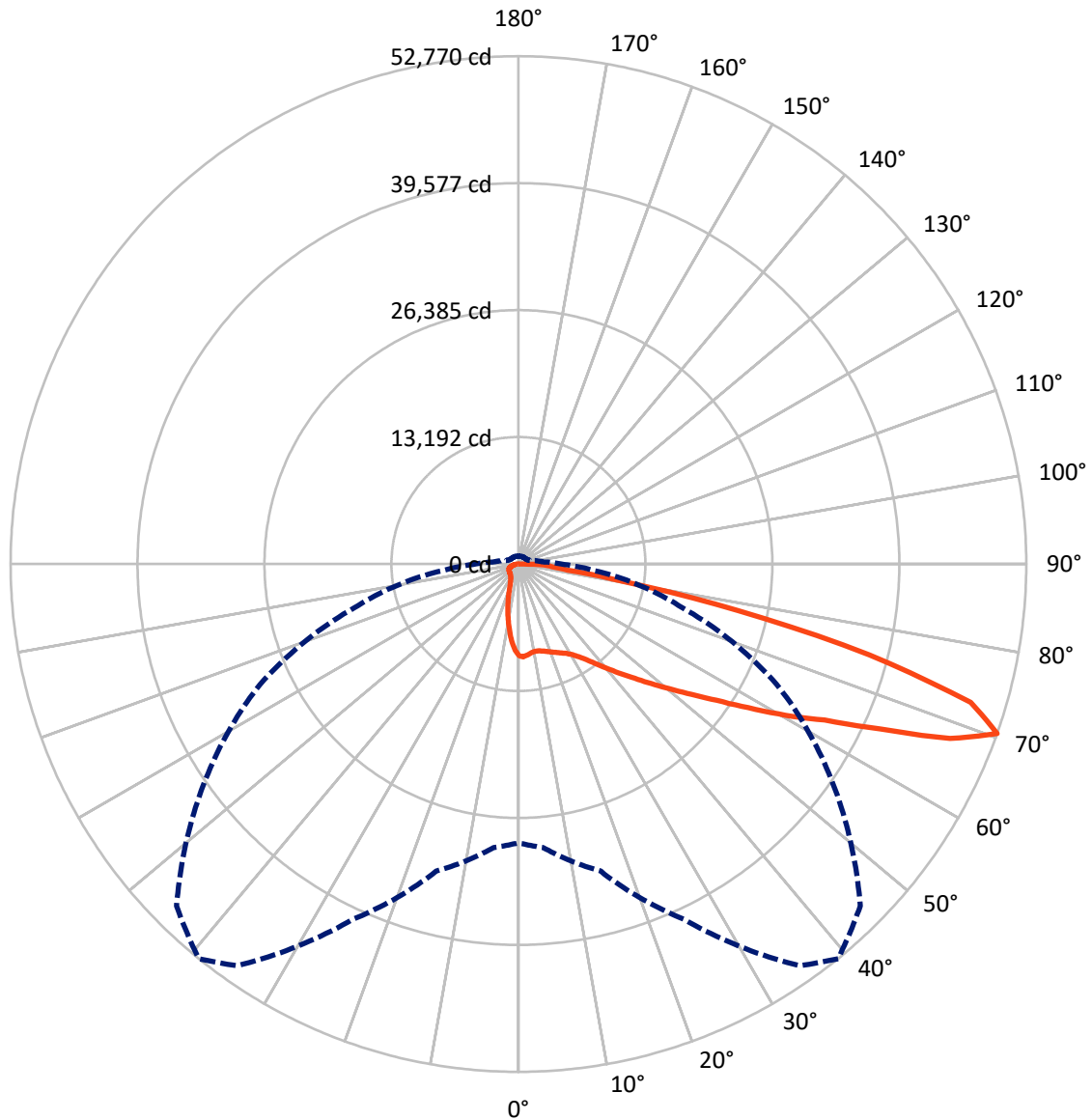
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7145.2	0.0	7145.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	55678.3	0.0	55678.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	62823.5	0.0	62823.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.5	1.3
10°-20°	2045.9	3.3
20°-30°	3185.6	5.1
30°-40°	4962.6	7.9
40°-50°	8331.4	13.3
50°-60°	13235.1	21.1
60°-70°	17654.1	28.1
70°-80°	10660.9	17.0
80°-90°	1929.5	3.1
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°	62823.5	100.0
0°-180°	62823.5	100.0



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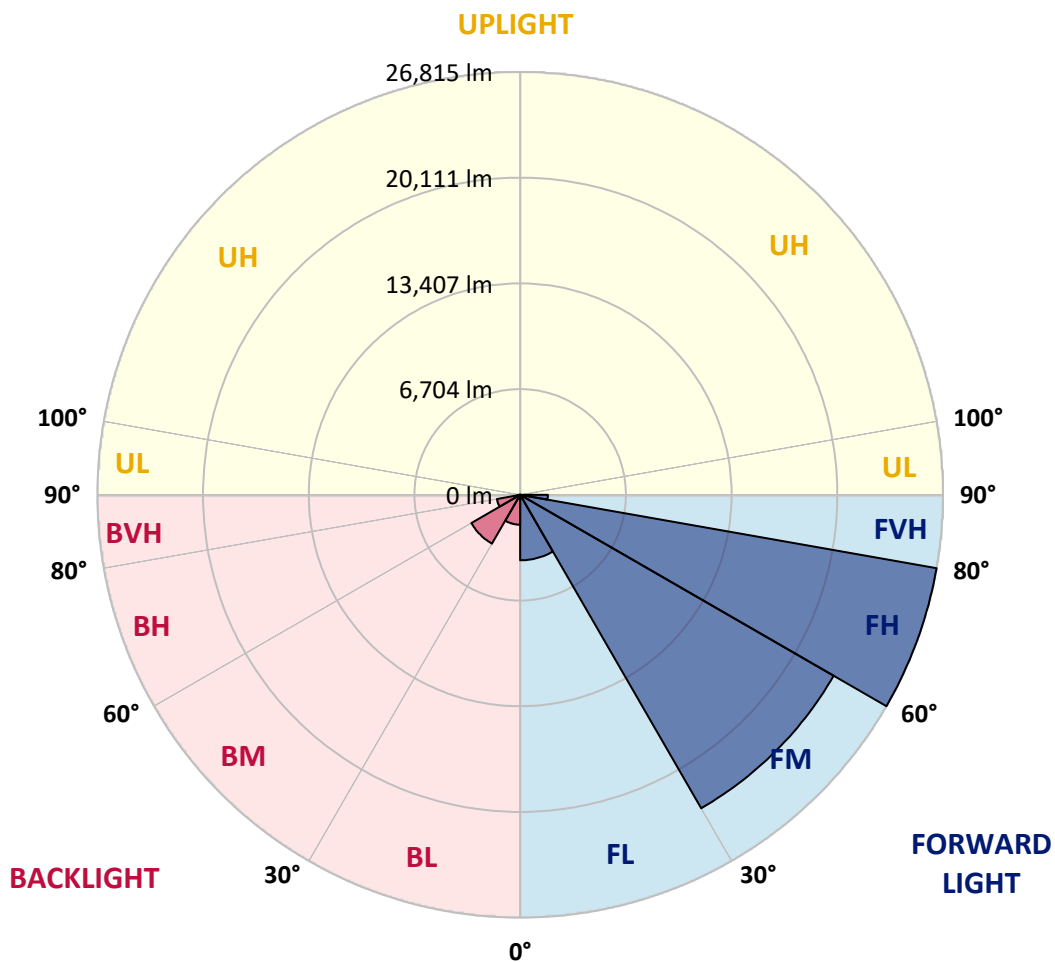
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4154.6	6.6			
FM	(30°-60°)	22953.3	36.5			
FH	(60°-80°)	26814.9	42.7			G5
FVH	(80°-90°)	1755.6	2.8			G5
BL	(0°-30°)	1895.5	3.0	B3/2500		
BM	(30°-60°)	3575.7	5.7	B3/5000		
BH	(60°-80°)	1500.1	2.4	B3/2500		G3/2500
BVH	(80°-90°)	173.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6
2.5°	9722.8	9719.7	9694.1	9675.0	9658.9	9652.6	9665.4	9617.5	9575.9	9524.8	9470.5
5°	9649.4	9646.2	9604.7	9566.3	9528.0	9515.2	9512.0	9425.8	9374.7	9298.0	9195.8
7.5°	9569.5	9553.5	9499.2	9435.4	9368.3	9336.4	9304.5	9192.6	9135.2	9058.4	8940.3
10°	9486.4	9467.3	9416.2	9352.3	9288.4	9240.5	9186.2	9077.7	9016.9	8959.4	8822.1
12.5°	9400.2	9384.2	9371.5	9342.7	9298.0	9256.5	9214.9	9122.4	9058.4	8991.4	8831.6
15°	9387.4	9381.1	9409.8	9428.9	9403.5	9377.9	9333.2	9253.3	9186.2	9119.2	8911.5
17.5°	9489.7	9486.4	9560.0	9611.0	9598.2	9553.5	9492.9	9403.5	9349.2	9291.7	9033.0
20°	9713.2	9729.2	9818.7	9885.7	9821.9	9757.9	9658.9	9534.4	9505.7	9480.1	9157.5
22.5°	10134.9	10150.8	10214.8	10240.2	10074.2	9981.5	9844.3	9684.5	9665.4	9684.5	9307.6
25°	10792.8	10776.9	10767.3	10671.5	10368.0	10224.3	10048.7	9882.5	9892.1	9978.4	9518.5
27.5°	11664.8	11578.6	11444.5	11157.0	10674.7	10515.0	10301.0	10147.7	10208.3	10374.5	9834.6
30°	12568.8	12472.9	12163.1	11693.6	11077.1	10901.5	10661.9	10489.4	10649.1	10911.0	10256.2
32.5°	13405.7	13392.9	12939.3	12335.7	11632.9	11479.6	11240.1	11045.2	11303.9	11703.2	10888.7
35°	14319.2	14347.9	13804.9	13079.9	12383.5	12223.9	12051.4	11904.4	12249.3	12798.8	11805.4
37.5°	15296.6	15354.1	14712.0	13894.3	13239.5	13172.4	13070.2	13006.4	13539.8	14300.0	13086.2
40°	16602.9	16545.4	15654.3	14814.3	14290.4	14287.2	14255.2	14332.0	15219.9	16261.1	14731.2
42.5°	18002.0	17832.7	16654.0	15801.2	15443.5	15552.0	15616.0	15929.0	17241.7	18644.0	16737.1
45°	19509.5	19129.5	17692.1	16845.6	16724.3	16954.3	17171.5	17851.8	19621.3	21355.7	18934.6
47.5°	20713.7	20346.4	18765.3	17941.2	18206.4	18554.5	18973.0	20049.3	22285.2	24157.0	21103.4
50°	21662.4	21422.8	19848.1	19218.9	19838.6	20375.1	21058.7	22537.6	25057.7	26884.8	23112.6
52.5°	22582.3	22403.4	20940.5	20528.5	21755.0	22496.0	23425.6	25207.9	27900.5	29567.8	24802.2
55°	23412.8	23285.0	22116.0	22160.7	24010.1	24974.6	26143.7	28248.6	30998.8	31960.2	26233.2
57.5°	24348.6	24185.7	23457.5	24208.1	26907.1	28159.2	29679.6	31666.3	33905.4	34087.4	27322.3
60°	25290.9	25150.4	24945.9	26571.8	30586.7	31902.7	33343.2	34978.6	36853.5	35738.7	27258.5
62.5°	26108.6	26124.5	26485.4	29053.5	34189.7	35713.3	37470.0	39086.2	39520.6	36026.3	25242.9
65°	27494.8	27747.1	28823.6	32567.1	39261.9	41299.7	43455.8	43197.0	40258.4	33340.0	20921.4
67.5°	29142.9	29586.9	31768.6	37249.6	45672.4	48377.8	49211.5	44126.5	37303.8	27102.0	14913.3
70°	28976.8	29586.9	33039.8	40740.8	50955.4	52769.7	50240.0	39935.8	29622.1	17704.9	7921.3
72.5°	25731.7	26603.7	30449.4	39140.5	49291.3	49131.6	43615.5	29772.2	17599.5	7110.0	3095.0
75°	19611.8	20493.4	23802.4	30922.1	38958.5	37616.9	30947.6	16446.4	6678.8	2823.5	1951.6
77.5°	11281.5	11965.0	14520.4	18963.4	24715.9	23339.2	17225.8	7314.5	3251.6	1967.5	1523.6
80°	6298.7	6678.8	8231.2	9620.6	12112.0	11102.7	7707.3	4545.2	2427.6	1427.7	1175.5
82.5°	4979.6	5318.2	6656.5	6068.8	5532.2	5104.2	4427.0	4046.9	1938.8	900.7	702.7
85°	4350.4	4672.9	5634.4	4778.4	3778.6	3465.6	3596.6	3983.1	1507.6	543.0	600.5
87.5°	4030.9	4462.1	5021.2	3682.8	2941.8	2606.4	3318.7	4366.4	485.5	338.6	242.7
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°	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6	9537.6
2.5°	9422.6	9371.5	9288.4	9214.9	9100.0	9039.3	8972.2	8924.3	8886.0	8854.0	8905.2
5°	9131.9	9036.1	8860.4	8672.0	8448.3	8272.7	8125.8	7988.4	7892.6	7828.7	7873.4
7.5°	8857.2	8700.7	8426.0	8084.3	7701.0	7375.2	7106.8	6870.5	6707.6	6602.2	6643.8
10°	8700.7	8505.8	8081.1	7544.5	6979.1	6471.3	6049.6	5685.5	5433.2	5289.5	5311.8
12.5°	8662.3	8410.1	7822.3	7084.5	6311.5	5605.7	5011.5	4506.9	4152.4	3967.1	3973.4
15°	8691.2	8368.6	7579.6	6643.8	5666.3	4775.1	4034.1	3420.8	3008.8	2798.1	2794.8
17.5°	8739.1	8336.6	7324.0	6167.8	5011.5	3976.6	3149.4	2548.9	2184.7	2015.5	2002.7
20°	8790.1	8285.5	7036.6	5653.5	4331.2	3235.6	2465.8	1996.3	1766.3	1673.8	1667.3
22.5°	8863.7	8240.8	6739.5	5110.6	3663.6	2635.1	2028.2	1712.0	1590.7	1542.7	1536.4
25°	8981.8	8218.4	6423.3	4545.2	3063.1	2203.9	1766.3	1571.5	1501.2	1469.3	1466.1
27.5°	9179.9	8250.4	6126.2	3995.9	2574.5	1913.2	1619.4	1501.2	1450.1	1421.4	1418.2
30°	9435.4	8349.4	5813.2	3475.2	2194.3	1715.2	1529.9	1453.3	1411.8	1383.0	1383.0
32.5°	9860.2	8515.5	5484.2	3024.8	1922.8	1577.9	1462.9	1411.8	1376.7	1354.3	1351.1
35°	10486.3	8828.5	5177.7	2651.1	1728.0	1478.9	1405.4	1367.1	1341.5	1328.7	1328.7
37.5°	11396.6	9323.6	4906.2	2382.8	1609.8	1411.8	1351.1	1322.4	1306.4	1306.4	1306.4
40°	12619.8	10007.1	4685.7	2203.9	1542.7	1363.9	1309.6	1287.2	1277.7	1280.8	1280.8
42.5°	14130.7	10895.0	4538.8	2079.4	1510.8	1335.2	1280.8	1261.7	1252.1	1248.9	1252.1
45°	15852.4	11904.4	4522.9	1986.8	1478.9	1315.9	1261.7	1242.5	1223.3	1210.6	1210.6
47.5°	17526.0	12929.7	4653.8	1954.8	1443.7	1293.6	1245.7	1226.5	1197.8	1169.0	1169.0
50°	19004.9	13801.8	4829.5	1967.5	1431.0	1261.7	1220.2	1210.6	1165.9	1133.9	1130.7
52.5°	20180.4	14472.5	4973.2	2005.9	1443.7	1239.3	1188.2	1191.4	1143.5	1108.4	1105.2
55°	21122.6	14913.3	4934.9	2044.3	1472.4	1226.5	1159.4	1165.9	1127.5	1092.4	1092.4
57.5°	21534.6	14750.3	4510.1	2012.2	1494.8	1229.7	1137.1	1162.7	1130.7	1098.8	1098.8
60°	20649.9	13303.5	3714.7	1871.7	1466.1	1220.2	1127.5	1175.5	1172.2	1140.3	1137.1
62.5°	17973.2	10713.1	2881.0	1664.1	1367.1	1172.2	1101.9	1172.2	1207.4	1197.8	1194.6
65°	13852.8	7630.7	2200.8	1440.5	1233.0	1092.4	1034.9	1098.8	1146.7	1159.4	1156.2
67.5°	8991.4	4676.1	1696.1	1229.7	1082.8	999.7	948.7	977.4	986.9	986.9	980.6
70°	4420.7	2517.0	1351.1	1034.9	929.5	900.7	872.0	856.0	840.0	827.3	827.3
72.5°	2181.5	1645.0	1111.5	875.1	801.7	788.9	782.6	763.4	750.6	734.7	728.2
75°	1613.0	1338.3	945.4	737.9	689.9	677.2	689.9	673.9	670.7	658.0	651.6
77.5°	1325.5	1140.3	814.5	632.4	591.0	568.6	587.7	591.0	594.1	574.9	568.6
80°	1076.5	964.6	680.4	523.9	485.5	469.5	482.3	507.9	514.2	485.5	472.7
82.5°	776.2	788.9	549.4	408.9	376.9	364.2	389.6	421.7	428.0	386.5	376.9
85°	651.6	658.0	421.7	290.6	258.7	239.6	281.1	313.0	335.4	293.9	284.3
87.5°	271.5	386.5	242.7	162.9	143.7	124.6	150.2	166.1	201.2	185.3	182.1
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)