

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: P192067

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192067
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-09-LED-E1-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 55470 lumens
Efficiency: N/A
Efficacy: 96.5 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): 575
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

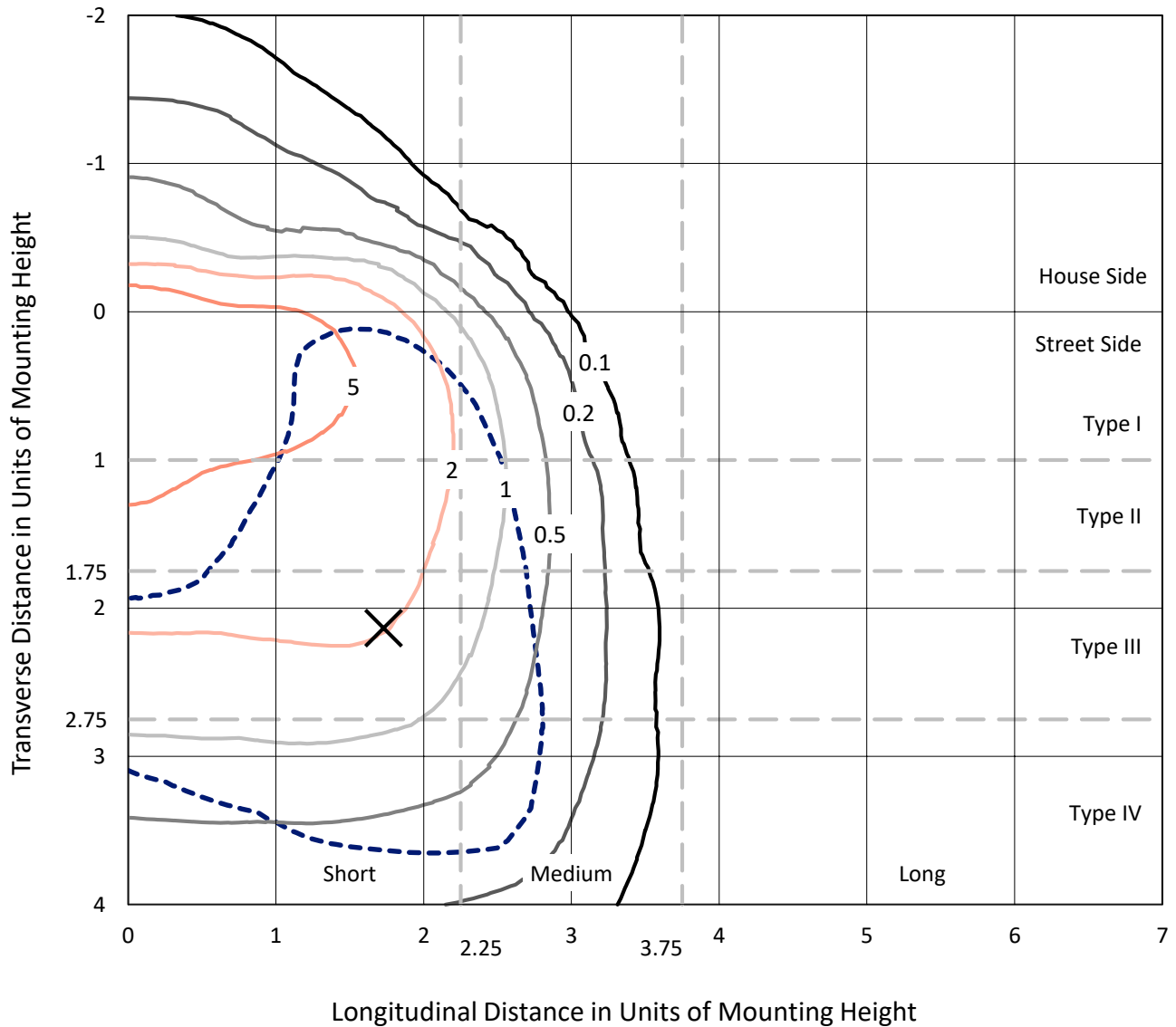


REPORT NUMBER: P192067

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

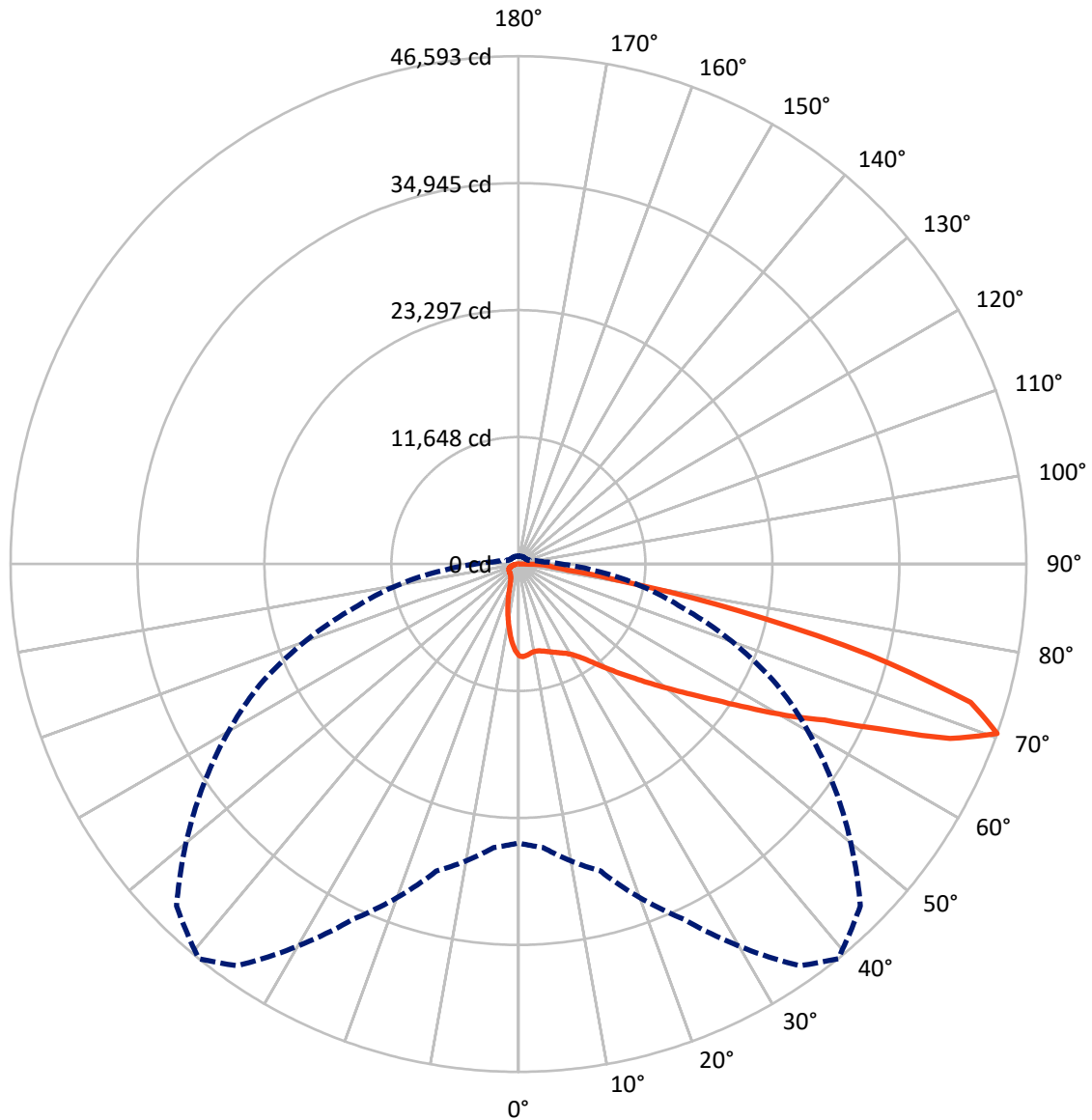


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192067

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-7050-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192067

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6308.8	0.0	6308.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	49161.2	0.0	49161.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	55470.0	0.0	55470.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.7	1.3
10°-20°	1806.5	3.3
20°-30°	2812.7	5.1
30°-40°	4381.7	7.9
40°-50°	7356.2	13.3
50°-60°	11685.9	21.1
60°-70°	15587.7	28.1
70°-80°	9413.0	17.0
80°-90°	1703.6	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°	55470.0	100.0
0°-180°	55470.0	100.0



REPORT NUMBER: P192067

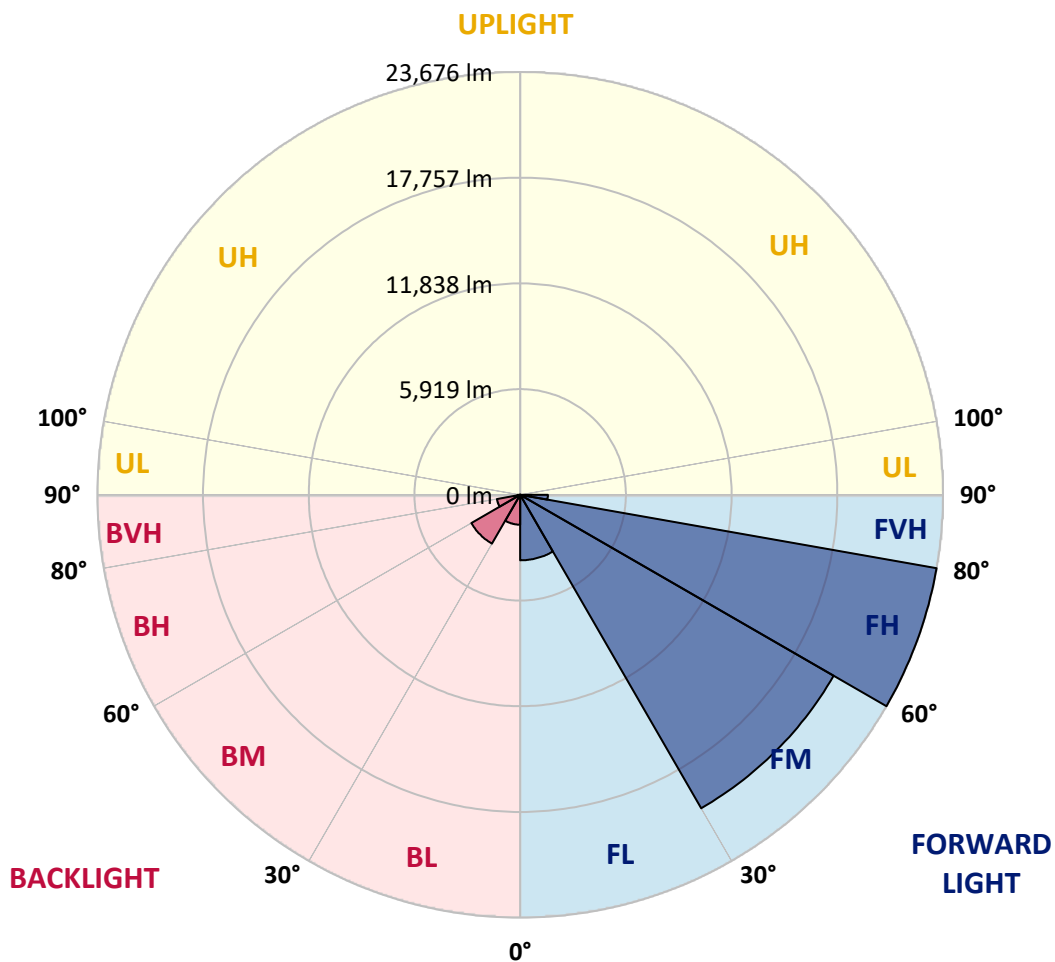
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3668.3	6.6			
FM	(30°-60°)	20266.6	36.5			
FH	(60°-80°)	23676.2	42.7			G5
FVH	(80°-90°)	1550.1	2.8			G5
BL	(0°-30°)	1673.6	3.0	B3/2500		
BM	(30°-60°)	3157.2	5.7	B3/5000		
BH	(60°-80°)	1324.5	2.4	B3/2500		G3/2500
BVH	(80°-90°)	153.5	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





REPORT NUMBER: P192067

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2
2.5°	8584.8	8582.0	8559.4	8542.5	8528.4	8522.7	8534.0	8491.7	8455.0	8409.9	8362.0
5°	8519.9	8517.1	8480.4	8446.6	8412.7	8401.5	8398.6	8322.5	8277.4	8209.7	8119.4
7.5°	8449.4	8435.3	8387.4	8331.0	8271.7	8243.5	8215.3	8116.6	8065.9	7998.2	7893.8
10°	8376.1	8359.2	8314.0	8257.6	8201.2	8158.9	8111.0	8015.1	7961.5	7910.7	7789.5
12.5°	8299.9	8285.8	8274.6	8249.2	8209.7	8173.0	8136.4	8054.6	7998.2	7938.9	7797.9
15°	8288.7	8283.0	8308.4	8325.3	8302.8	8280.2	8240.7	8170.2	8111.0	8051.8	7868.4
17.5°	8378.9	8376.1	8440.9	8486.1	8474.8	8435.3	8381.7	8302.8	8254.8	8204.0	7975.6
20°	8576.3	8590.4	8669.4	8728.6	8672.2	8615.8	8528.4	8418.4	8393.0	8370.4	8085.6
22.5°	8948.6	8962.7	9019.1	9041.7	8895.0	8813.2	8691.9	8550.9	8534.0	8550.9	8218.1
25°	9529.6	9515.5	9507.0	9422.4	9154.5	9027.6	8872.4	8725.8	8734.3	8810.4	8404.3
27.5°	10299.5	10223.3	10104.9	9851.1	9425.2	9284.2	9095.2	8959.9	9013.5	9160.1	8683.5
30°	11097.6	11013.0	10739.4	10324.9	9780.6	9625.4	9413.9	9261.6	9402.6	9633.9	9055.8
32.5°	11836.5	11825.2	11424.8	10891.7	10271.3	10135.9	9924.4	9752.4	9980.8	10333.3	9614.2
35°	12643.1	12668.5	12189.0	11548.8	10934.0	10793.0	10640.7	10511.0	10815.6	11300.7	10423.6
37.5°	13506.1	13556.8	12990.0	12268.0	11689.9	11630.6	11540.4	11484.0	11955.0	12626.2	11554.5
40°	14659.6	14608.8	13821.9	13080.2	12617.7	12614.9	12586.7	12654.4	13438.4	14357.8	13006.9
42.5°	15894.8	15745.3	14704.7	13951.7	13635.8	13731.7	13788.1	14064.5	15223.6	16461.7	14778.0
45°	17226.0	16890.4	15621.3	14873.9	14766.7	14969.8	15161.6	15762.3	17324.7	18856.1	16718.3
47.5°	18289.2	17964.9	16568.8	15841.2	16075.3	16382.7	16752.2	17702.6	19676.7	21329.4	18633.3
50°	19126.8	18915.3	17524.9	16969.3	17516.4	17990.2	18593.8	19899.5	22124.7	23737.9	20407.2
52.5°	19939.0	19781.1	18489.4	18125.6	19208.6	19862.9	20683.6	22257.3	24634.7	26106.9	21899.1
55°	20672.3	20559.5	19527.3	19566.8	21199.7	22051.4	23083.6	24942.1	27370.3	28219.2	23162.5
57.5°	21498.6	21354.8	20711.8	21374.5	23757.6	24863.1	26205.6	27959.8	29936.7	30097.5	24124.2
60°	22330.6	22206.5	22026.0	23461.5	27006.5	28168.5	29440.4	30884.3	32539.8	31555.5	24067.8
62.5°	23052.6	23066.7	23385.3	25652.8	30187.7	31533.0	33084.1	34511.2	34894.7	31809.4	22288.3
65°	24276.5	24499.3	25449.8	28755.1	34666.3	36465.6	38369.2	38140.8	35546.2	29437.6	18472.5
67.5°	25731.8	26123.8	28050.0	32889.5	40326.5	42715.2	43451.3	38961.5	32937.5	23929.6	13167.7
70°	25585.1	26123.8	29172.5	35972.0	44991.1	46593.0	44359.4	35261.3	26154.8	15632.5	6994.2
72.5°	22719.8	23489.7	26885.2	34559.1	43521.8	43380.8	38510.2	26287.4	15539.5	6277.8	2732.8
75°	17316.2	18094.6	21016.4	27302.6	34398.3	33213.8	27325.2	14521.4	5897.1	2493.1	1723.2
77.5°	9961.1	10564.6	12820.8	16743.7	21822.9	20607.4	15209.5	6458.3	2871.0	1737.3	1345.2
80°	5561.5	5897.1	7267.7	8494.5	10694.3	9803.1	6805.2	4013.2	2143.4	1260.6	1037.8
82.5°	4396.7	4695.7	5877.4	5358.4	4884.6	4506.7	3908.8	3573.2	1711.9	795.3	620.5
85°	3841.2	4126.0	4974.9	4219.1	3336.3	3059.9	3175.6	3516.8	1331.1	479.4	530.2
87.5°	3559.1	3939.9	4433.4	3251.7	2597.4	2301.3	2930.2	3855.3	428.7	298.9	214.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192067

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL4-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2	8421.2
2.5°	8319.7	8274.6	8201.2	8136.4	8034.8	7981.2	7922.0	7879.7	7845.9	7817.7	7862.8
5°	8063.0	7978.4	7823.3	7656.9	7459.5	7304.4	7174.7	7053.4	6968.8	6912.4	6951.9
7.5°	7820.5	7682.3	7439.8	7138.0	6799.6	6511.9	6275.0	6066.3	5922.5	5829.4	5866.1
10°	7682.3	7510.3	7135.2	6661.4	6162.2	5713.8	5341.5	5020.0	4797.2	4670.3	4690.0
12.5°	7648.5	7425.7	6906.7	6255.3	5572.8	4949.5	4424.9	3979.3	3666.3	3502.7	3508.4
15°	7673.8	7389.0	6692.4	5866.1	5003.1	4216.2	3562.0	3020.5	2656.7	2470.5	2467.7
17.5°	7716.1	7360.8	6466.8	5445.9	4424.9	3511.2	2780.7	2250.5	1929.0	1779.6	1768.3
20°	7761.3	7315.7	6213.0	4991.8	3824.2	2856.9	2177.2	1762.6	1559.6	1477.8	1472.2
22.5°	7826.1	7276.2	5950.7	4512.4	3234.8	2326.7	1790.8	1511.6	1404.5	1362.2	1356.5
25°	7930.5	7256.5	5671.5	4013.2	2704.6	1946.0	1559.6	1387.6	1325.5	1297.3	1294.5
27.5°	8105.3	7284.7	5409.2	3528.1	2273.1	1689.3	1429.9	1325.5	1280.4	1255.0	1252.2
30°	8331.0	7372.1	5132.8	3068.4	1937.5	1514.5	1350.9	1283.2	1246.5	1221.2	1221.2
32.5°	8706.0	7518.7	4842.3	2670.8	1697.8	1393.2	1291.7	1246.5	1215.5	1195.8	1193.0
35°	9258.8	7795.1	4571.6	2340.8	1525.7	1305.8	1240.9	1207.1	1184.5	1173.2	1173.2
37.5°	10062.6	8232.3	4331.9	2103.9	1421.4	1246.5	1193.0	1167.6	1153.5	1153.5	1153.5
40°	11142.7	8835.8	4137.3	1946.0	1362.2	1204.2	1156.3	1136.6	1128.1	1130.9	1130.9
42.5°	12476.7	9619.8	4007.5	1836.0	1334.0	1178.9	1130.9	1114.0	1105.5	1102.7	1105.5
45°	13996.8	10511.0	3993.4	1754.2	1305.8	1161.9	1114.0	1097.1	1080.1	1068.9	1068.9
47.5°	15474.6	11416.3	4109.1	1726.0	1274.7	1142.2	1099.9	1083.0	1057.6	1032.2	1032.2
50°	16780.4	12186.2	4264.2	1737.3	1263.5	1114.0	1077.3	1068.9	1029.4	1001.2	998.4
52.5°	17818.2	12778.5	4391.1	1771.1	1274.7	1094.2	1049.1	1051.9	1009.6	978.6	975.8
55°	18650.2	13167.7	4357.3	1804.9	1300.1	1083.0	1023.7	1029.4	995.5	964.5	964.5
57.5°	19014.0	13023.8	3982.2	1776.7	1319.9	1085.8	1004.0	1026.6	998.4	970.2	970.2
60°	18232.8	11746.3	3279.9	1652.7	1294.5	1077.3	995.5	1037.8	1035.0	1006.8	1004.0
62.5°	15869.4	9459.1	2543.8	1469.3	1207.1	1035.0	973.0	1035.0	1066.0	1057.6	1054.8
65°	12231.3	6737.5	1943.1	1271.9	1088.6	964.5	913.8	970.2	1012.5	1023.7	1020.9
67.5°	7938.9	4128.8	1497.5	1085.8	956.1	882.7	837.6	863.0	871.5	871.5	865.8
70°	3903.2	2222.3	1193.0	913.8	820.7	795.3	769.9	755.8	741.7	730.4	730.4
72.5°	1926.2	1452.4	981.4	772.7	707.9	696.6	691.0	674.0	662.8	648.7	643.0
75°	1424.2	1181.7	834.8	651.5	609.2	597.9	609.2	595.1	592.2	581.0	575.3
77.5°	1170.4	1006.8	719.2	558.4	521.7	502.0	518.9	521.7	524.6	507.6	502.0
80°	950.4	851.7	600.7	462.5	428.7	414.6	425.9	448.4	454.1	428.7	417.4
82.5°	685.3	696.6	485.1	361.0	332.8	321.5	344.1	372.3	377.9	341.2	332.8
85°	575.3	581.0	372.3	256.6	228.4	211.5	248.2	276.4	296.1	259.5	251.0
87.5°	239.7	341.2	214.3	143.8	126.9	110.0	132.6	146.7	177.7	163.6	160.8
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)