

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: P191158

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39712 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

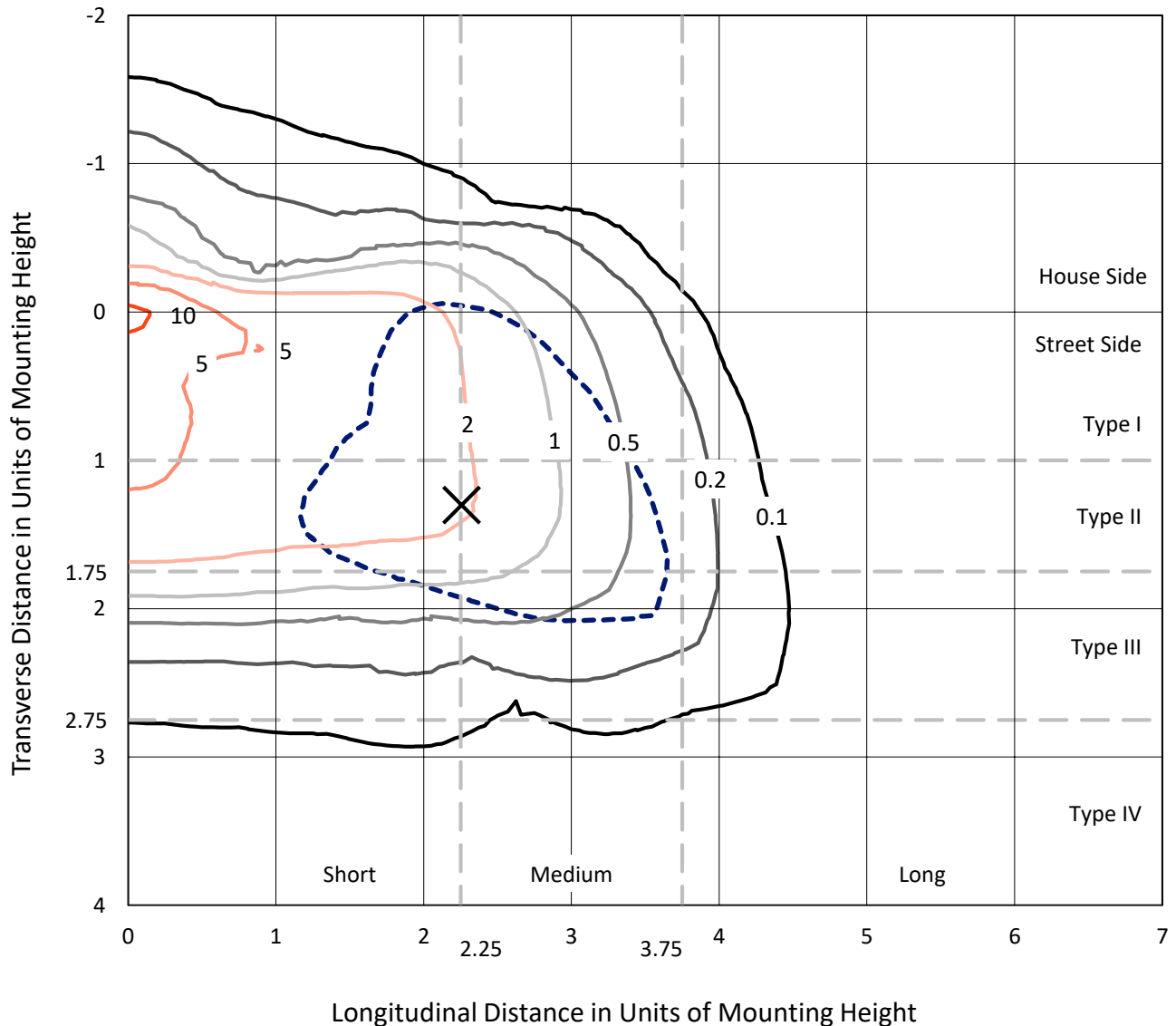
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

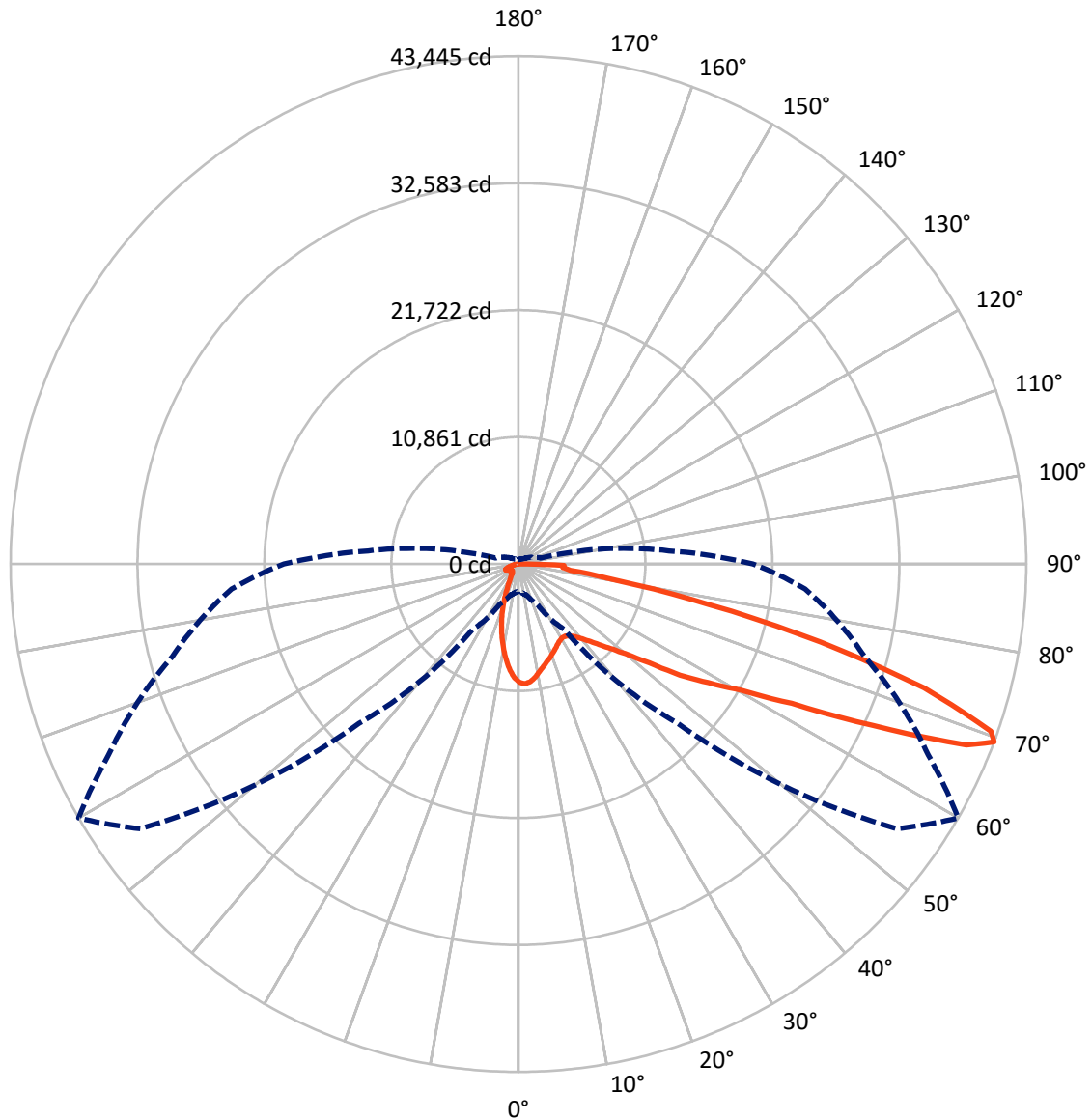
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5649.8	0.0	5649.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34062.2	0.0	34062.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	39712.0	0.0	39712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.6	2.2
10°-20°	1823.0	4.6
20°-30°	2322.8	5.8
30°-40°	3193.2	8.0
40°-50°	5181.3	13.0
50°-60°	8309.4	20.9
60°-70°	11059.2	27.8
70°-80°	5971.1	15.0
80°-90°	996.3	2.5
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°	39712.0	100.0
0°-180°	39712.0	100.0

Coefficient of Utilization



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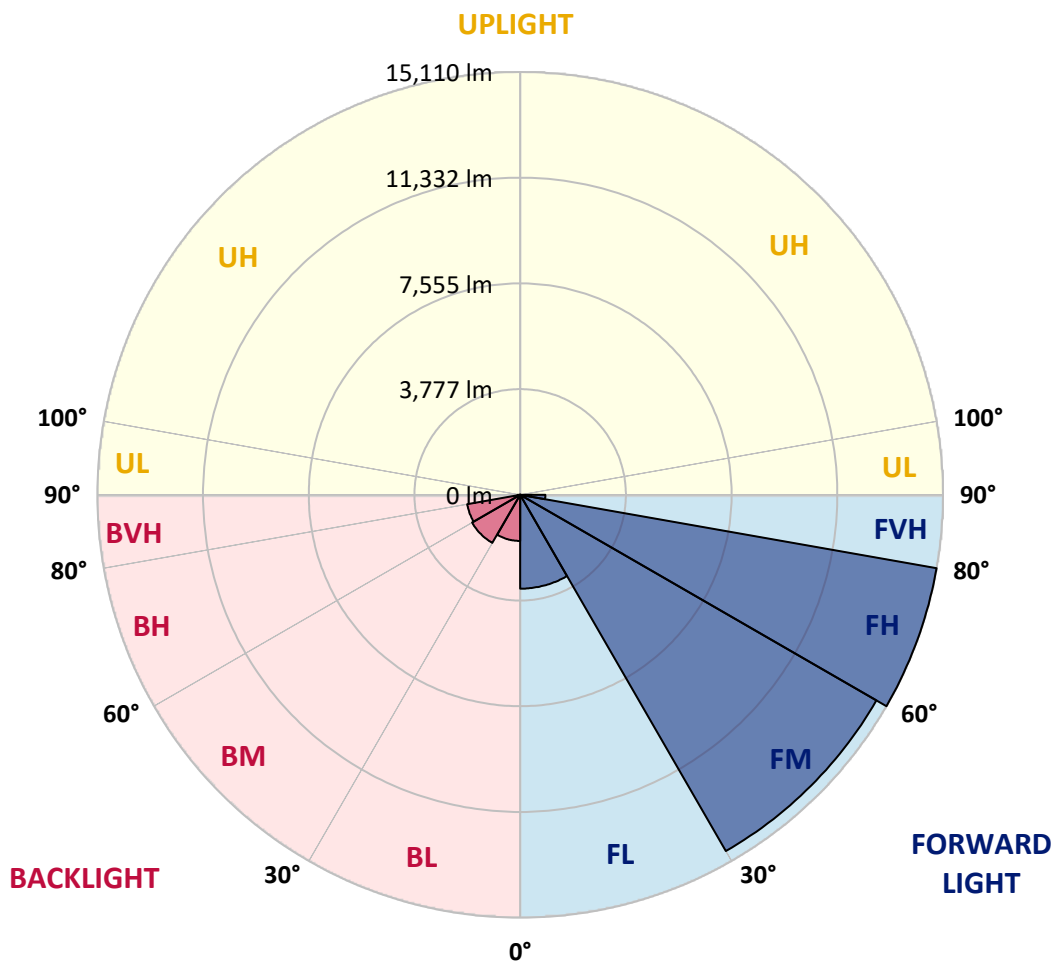
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3353.1	8.4			
FM	(30°-60°)	14699.1	37.0			
FH	(60°-80°)	15109.7	38.0			G5
FVH	(80°-90°)	900.4	2.3			G5
BL	(0°-30°)	1648.2	4.2	B3/2500		
BM	(30°-60°)	1984.9	5.0	B2/2500		
BH	(60°-80°)	1920.7	4.8	B3/2500		G3/2500
BVH	(80°-90°)	95.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2
2.5°	10326.4	10349.4	10339.8	10334.1	10351.3	10324.4	10268.9	10251.6	10224.7	10161.4	10054.0
5°	9938.9	10007.9	10004.2	10055.9	10142.3	10165.3	10140.3	10144.2	10094.3	10015.6	9837.2
7.5°	9269.4	9298.2	9313.6	9426.7	9584.0	9710.6	9818.1	9852.6	9829.5	9762.4	9532.2
10°	8578.8	8601.8	8638.3	8770.6	8970.2	9144.7	9348.0	9465.1	9515.0	9503.4	9246.4
12.5°	7986.1	8009.1	8057.0	8206.6	8444.5	8659.4	8954.8	9100.6	9219.5	9290.5	9014.2
15°	7454.7	7504.6	7550.6	7723.2	7989.9	8271.9	8605.7	8789.8	8973.9	9133.2	8809.0
17.5°	7040.3	7090.2	7117.0	7274.3	7558.3	7903.5	8294.9	8511.7	8741.8	9002.8	8605.7
20°	6800.5	6823.5	6812.0	6900.2	7155.3	7521.8	7986.1	8237.3	8515.5	8879.9	8402.3
22.5°	6733.4	6735.3	6693.1	6683.4	6848.5	7157.3	7656.1	7961.1	8302.6	8799.4	8227.7
25°	6896.4	6890.7	6775.5	6681.6	6698.8	6879.1	7337.6	7692.5	8124.2	8782.1	8093.5
27.5°	7259.0	7276.2	7105.5	6929.1	6754.4	6748.7	7095.9	7470.0	7978.4	8860.8	8035.9
30°	7767.4	7796.1	7613.8	7389.4	7061.4	6790.9	7001.9	7337.6	7888.2	9023.9	8026.3
32.5°	8323.6	8354.3	8216.2	7980.2	7550.6	7051.8	7067.2	7349.2	7884.4	9252.1	8091.5
35°	8916.4	8950.9	8879.9	8680.5	8202.8	7533.3	7316.6	7535.3	8009.1	9601.3	8266.1
37.5°	9578.2	9632.0	9651.1	9461.3	8950.9	8168.3	7725.1	7888.2	8291.0	10086.6	8586.4
40°	10531.7	10606.5	10600.7	10328.3	9808.5	9025.8	8356.3	8398.4	8730.4	10734.9	9098.6
42.5°	12357.9	12373.3	11895.6	11302.8	10752.2	9927.4	9100.6	9066.0	9336.6	11556.1	9852.6
45°	14681.0	14617.7	13554.9	12409.7	11738.3	10963.3	10069.3	9900.5	10105.8	12557.4	10796.4
47.5°	16608.9	16463.2	15120.3	13539.6	12781.9	12089.3	11206.9	10911.5	11024.6	13693.1	12016.4
50°	17278.5	17169.1	16056.4	14479.6	13769.8	13462.9	12607.3	12189.1	12219.8	15047.4	13445.6
52.5°	17134.5	17119.2	16376.8	15099.2	14694.5	14905.4	14590.9	14025.0	13725.6	16551.3	14988.0
55°	16795.0	16827.6	16559.0	15820.5	15751.4	16298.2	17182.5	16764.3	15833.9	18068.8	16582.0
57.5°	15615.2	15699.6	16290.5	16727.9	17453.0	18266.4	19269.6	19150.8	18103.4	19709.0	18477.4
60°	12580.5	12776.1	14360.7	16551.3	19204.5	21748.1	22197.0	21920.8	20443.7	21744.4	20980.8
62.5°	8814.8	9018.1	10901.9	14330.0	18916.7	25680.8	27430.2	26239.0	23804.6	24742.7	24220.9
65°	4719.1	4817.0	6255.7	9942.8	15970.1	26492.2	35078.6	33265.8	29126.1	28439.3	26992.9
67.5°	2603.2	2656.9	3207.5	5020.2	10228.6	23328.9	39951.2	41321.0	35776.9	30900.5	26488.4
69°	2353.8	2403.6	2764.3	3802.1	6844.7	19288.9	39475.5	43444.5	38692.8	30656.9	24623.8
70°	2302.0	2348.1	2672.3	3504.8	5540.2	15899.1	37881.3	42901.6	39387.3	29784.0	22997.0
72.5°	2071.8	2121.7	2436.3	3148.0	4734.4	7926.5	30006.6	36273.8	35759.7	25824.6	17443.5
75°	1931.7	1977.8	2511.1	3082.8	4533.0	5016.4	19781.8	26733.9	26287.0	18065.0	9405.6
77.5°	826.9	823.0	1164.4	2608.9	4600.2	4857.2	10629.5	16701.0	15237.4	7721.3	2701.0
80°	552.5	542.9	552.5	767.3	4218.4	4884.1	5568.9	8477.1	6403.4	1968.3	1331.4
82.5°	475.8	468.1	485.3	468.1	1482.9	5574.7	4734.4	4508.0	3044.4	1118.4	659.9
85°	320.4	306.9	418.2	420.1	700.2	4953.1	5332.9	3807.9	2463.2	663.8	326.1
87.5°	153.4	149.7	243.7	297.4	410.5	2012.3	5983.2	3901.8	2484.2	339.5	155.4
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°	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2	10119.2
2.5°	10021.3	9942.8	9866.0	9773.9	9678.0	9570.5	9516.8	9463.1	9449.7	9434.4	9380.7
5°	9745.1	9633.8	9442.0	9231.0	9008.5	8791.8	8626.7	8523.1	8444.5	8404.3	8333.3
7.5°	9388.3	9225.3	8889.5	8525.1	8151.0	7809.5	7514.1	7328.0	7151.6	7069.1	6975.1
10°	9048.8	8805.2	8283.3	7746.2	7209.1	6693.1	6207.8	5864.4	5559.3	5388.6	5267.8
12.5°	8757.2	8423.4	7700.2	6973.1	6236.5	5501.7	4774.7	4203.1	3725.4	3474.1	3345.6
15°	8473.3	8070.5	7145.8	6223.1	5277.3	4277.9	3322.5	2674.2	2279.0	2121.7	2068.0
17.5°	8216.2	7700.2	6589.4	5467.3	4287.5	3078.9	2232.9	1876.1	1724.6	1672.8	1655.5
20°	7938.1	7326.2	6012.1	4676.9	3255.4	2152.4	1743.7	1586.5	1525.1	1509.8	1502.1
22.5°	7669.5	6957.8	5459.6	3831.0	2338.5	1661.3	1498.2	1432.9	1423.4	1436.8	1436.8
25°	7441.3	6627.8	4863.0	2946.6	1716.9	1398.5	1340.9	1325.5	1362.1	1411.9	1421.5
27.5°	7270.5	6357.3	4228.0	2175.4	1367.8	1216.2	1214.3	1239.2	1329.4	1425.3	1444.5
30°	7153.5	6100.3	3548.9	1569.2	1147.1	1070.4	1101.1	1154.8	1287.2	1423.4	1459.9
32.5°	7094.0	5910.4	2841.0	1214.3	982.2	940.0	991.8	1057.0	1187.4	1314.1	1362.1
35°	7140.0	5770.4	2173.5	1012.9	867.1	834.5	888.2	951.4	1028.3	1082.0	1118.4
37.5°	7312.7	5714.7	1640.2	907.4	788.4	757.7	799.9	836.4	867.1	882.4	899.7
40°	7684.8	5774.1	1314.1	853.7	744.3	705.9	723.2	736.6	755.9	771.2	778.9
42.5°	8233.5	5952.6	1177.8	832.6	721.3	665.6	661.8	667.6	692.5	721.3	727.0
45°	9000.8	6267.2	1168.3	846.0	709.8	633.0	615.8	623.5	661.8	705.9	713.6
47.5°	9981.1	6746.8	1245.0	886.3	719.3	615.8	587.0	596.6	644.6	704.0	713.6
50°	11168.6	7416.3	1373.5	945.7	761.6	619.6	577.5	583.2	633.0	698.3	707.9
52.5°	12570.8	8365.9	1513.6	1003.3	805.7	644.6	585.1	571.6	617.7	675.2	686.8
55°	14130.4	9584.0	1657.5	1055.1	828.7	675.2	600.5	556.3	588.9	636.9	646.5
57.5°	16045.0	11287.4	1906.8	1105.0	844.0	696.3	615.8	540.9	552.5	587.0	594.6
60°	18636.6	13696.9	2346.1	1187.4	878.6	704.0	613.9	527.5	516.1	535.2	539.1
62.5°	21742.4	16313.5	2712.6	1291.1	936.1	709.8	602.3	517.9	485.3	485.3	489.2
65°	23586.0	17013.7	2509.2	1377.4	984.1	704.0	588.9	508.4	462.3	441.2	443.1
67.5°	22022.5	14963.0	2150.4	1394.6	982.2	677.2	567.8	491.1	439.3	406.7	404.8
69°	20063.9	12910.4	1989.3	1348.6	936.1	642.6	540.9	471.9	422.1	387.5	385.6
70°	18485.0	11657.8	1883.8	1298.7	886.3	617.7	519.9	454.6	408.6	376.0	372.1
72.5°	13439.8	7638.8	1609.5	1116.4	730.9	517.9	448.9	399.1	364.5	345.3	341.5
75°	6716.1	3642.9	1306.4	905.4	560.2	414.4	368.4	333.8	316.5	312.7	310.8
77.5°	2206.1	1668.9	934.3	675.2	416.2	324.2	297.4	272.4	268.5	280.1	276.2
80°	1212.4	970.7	592.8	446.9	283.9	237.8	234.1	220.7	226.4	245.5	241.7
82.5°	617.7	504.5	366.4	268.5	191.8	170.7	186.1	178.4	186.1	203.4	201.4
85°	305.0	276.2	232.1	163.1	126.6	109.4	132.4	138.1	142.0	155.4	155.4
87.5°	176.5	163.1	122.8	76.7	63.3	57.6	76.7	74.8	88.3	96.0	94.0
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)