

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: P191956

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191956
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-08-LED-E1-SL3-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 31433 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

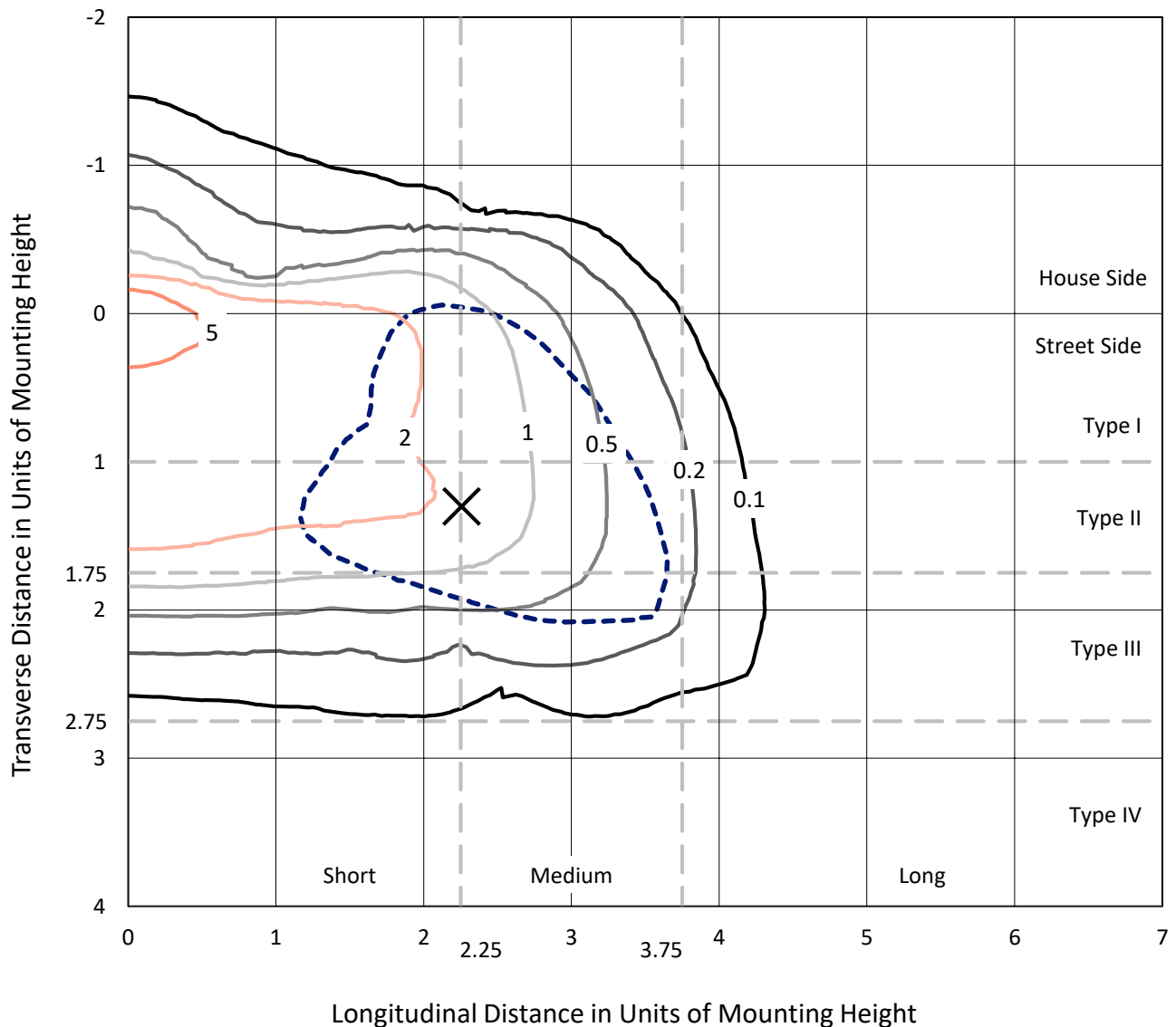
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

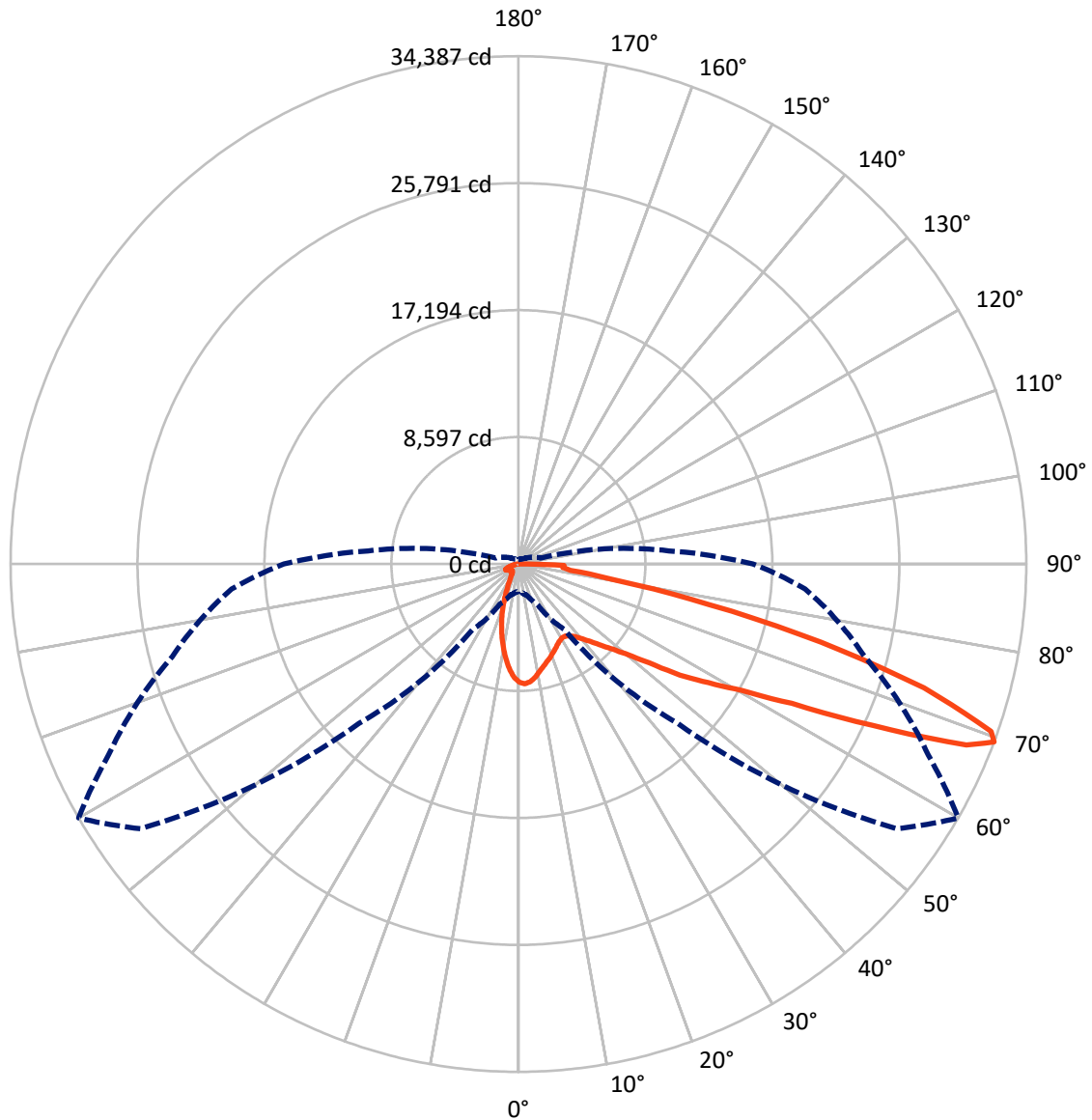
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	4471.9	0.0	4471.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26961.1	0.0	26961.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	31433.0	0.0	31433.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.2	2.2
10°-20°	1442.9	4.6
20°-30°	1838.5	5.8
30°-40°	2527.5	8.0
40°-50°	4101.1	13.0
50°-60°	6577.1	20.9
60°-70°	8753.7	27.8
70°-80°	4726.3	15.0
80°-90°	788.6	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°	31433.0	100.0
0°-180°	31433.0	100.0



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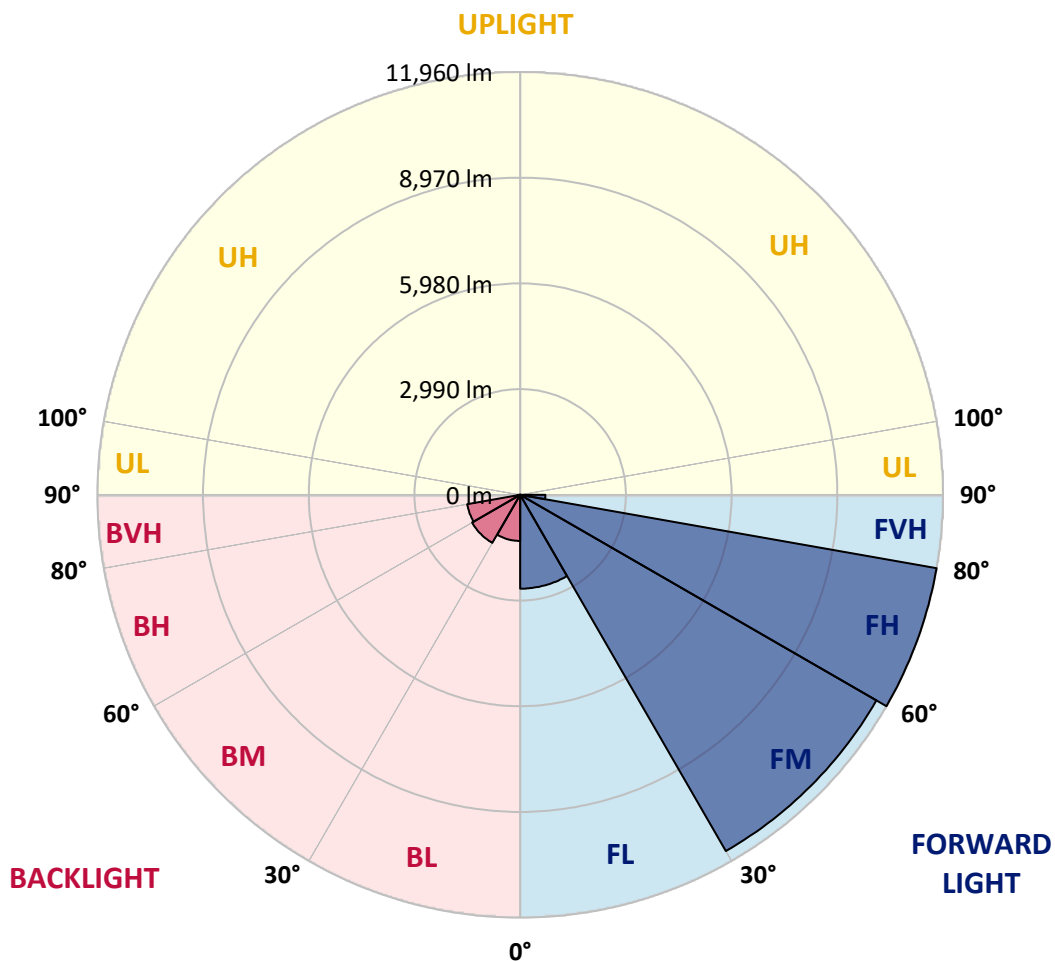
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2654.1	8.4			
FM	(30°-60°)	11634.7	37.0			
FH	(60°-80°)	11959.7	38.0			G4/12000
FVH	(80°-90°)	712.7	2.3			G4/750
BL	(0°-30°)	1304.6	4.2	B3/2500		
BM	(30°-60°)	1571.1	5.0	B2/2500		
BH	(60°-80°)	1520.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	75.9	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6
2.5°	8173.6	8191.8	8184.2	8179.7	8193.3	8172.1	8128.0	8114.4	8093.1	8043.0	7958.0
5°	7866.9	7921.5	7918.5	7959.5	8027.8	8046.0	8026.3	8029.3	7989.9	7927.6	7786.4
7.5°	7337.0	7359.7	7371.9	7461.5	7586.0	7686.2	7771.2	7798.5	7780.3	7727.2	7545.0
10°	6790.3	6808.5	6837.4	6942.2	7100.1	7238.3	7399.2	7491.8	7531.3	7522.2	7318.7
12.5°	6321.1	6339.4	6377.3	6495.8	6684.0	6854.1	7087.9	7203.3	7297.5	7353.7	7135.0
15°	5900.5	5940.0	5976.5	6113.1	6324.2	6547.4	6811.6	6957.3	7103.1	7229.1	6972.5
17.5°	5572.6	5612.0	5633.3	5757.8	5982.5	6255.8	6565.6	6737.2	6919.4	7125.9	6811.6
20°	5382.8	5401.0	5391.9	5461.7	5663.7	5953.7	6321.1	6520.0	6740.2	7028.7	6650.6
22.5°	5329.6	5331.1	5297.7	5290.1	5420.7	5665.2	6060.0	6301.4	6571.7	6964.9	6512.5
25°	5458.7	5454.1	5363.0	5288.6	5302.3	5445.0	5807.9	6088.8	6430.5	6951.3	6406.2
27.5°	5745.7	5759.3	5624.2	5484.5	5346.3	5341.8	5616.6	5912.7	6315.1	7013.5	6360.6
30°	6148.0	6170.8	6026.6	5848.9	5589.3	5375.2	5542.2	5807.9	6243.7	7142.6	6353.0
32.5°	6588.4	6612.7	6503.3	6316.6	5976.5	5581.7	5593.8	5817.0	6240.7	7323.3	6404.6
35°	7057.6	7084.9	7028.7	6870.8	6492.7	5962.8	5791.2	5964.3	6339.4	7599.6	6542.8
37.5°	7581.4	7623.9	7639.1	7488.8	7084.9	6465.4	6114.6	6243.7	6562.6	7983.8	6796.4
40°	8336.1	8395.3	8390.7	8175.1	7763.6	7144.1	6614.2	6647.6	6910.3	8497.0	7201.8
42.5°	9781.6	9793.7	9415.7	8946.5	8510.7	7857.8	7203.3	7176.0	7390.1	9146.9	7798.5
45°	11620.4	11570.3	10729.1	9822.6	9291.1	8677.7	7970.1	7836.5	7999.0	9939.5	8545.6
47.5°	13146.4	13031.0	11968.1	10716.9	10117.2	9569.0	8870.5	8636.7	8726.3	10838.4	9511.3
50°	13676.3	13589.8	12709.1	11460.9	10899.1	10656.2	9979.0	9648.0	9672.3	11910.4	10642.5
52.5°	13562.4	13550.3	12962.7	11951.4	11631.0	11798.0	11549.0	11101.1	10864.2	13100.8	11863.3
55°	13293.7	13319.5	13106.9	12522.3	12467.7	12900.4	13600.4	13269.4	12532.9	14301.9	13125.1
57.5°	12359.8	12426.7	12894.3	13240.5	13814.5	14458.3	15252.4	15158.3	14329.2	15600.1	14625.3
60°	9957.7	10112.6	11366.8	13100.8	15200.8	17214.2	17569.5	17350.9	16181.7	17211.2	16606.8
62.5°	6977.1	7138.0	8629.1	11342.5	14973.0	20326.9	21711.7	20768.8	18841.9	19584.4	19171.4
65°	3735.3	3812.7	4951.5	7869.9	12640.8	20969.2	27765.6	26330.7	23054.0	22510.4	21365.5
67.5°	2060.5	2103.0	2538.8	3973.7	8096.2	18465.4	31622.4	32706.5	28318.3	24458.5	20966.2
69°	1863.1	1902.6	2188.0	3009.5	5417.7	15267.6	31245.8	34387.4	30626.3	24265.7	19490.3
70°	1822.1	1858.5	2115.1	2774.1	4385.2	12584.6	29984.0	33957.7	31176.0	23574.8	18202.7
72.5°	1639.9	1679.4	1928.4	2491.7	3747.4	6274.1	23750.9	28711.6	28304.7	20440.8	13806.9
75°	1529.0	1565.5	1987.6	2440.1	3588.0	3970.6	15657.8	21160.5	20806.8	14298.9	7444.8
77.5°	654.4	651.4	921.7	2065.0	3641.1	3844.6	8413.5	13219.3	12060.7	6111.6	2137.9
80°	437.3	429.7	437.3	607.4	3339.0	3865.9	4407.9	6709.8	5068.4	1557.9	1053.8
82.5°	376.6	370.5	384.2	370.5	1173.7	4412.5	3747.4	3568.3	2409.7	885.2	522.3
85°	253.6	242.9	331.0	332.5	554.2	3920.5	4221.2	3014.0	1949.6	525.4	258.1
87.5°	121.5	118.4	192.8	235.4	324.9	1592.8	4735.9	3088.4	1966.3	268.8	123.0
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°	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6	8009.6
2.5°	7932.2	7869.9	7809.2	7736.3	7660.4	7575.3	7532.8	7490.3	7479.7	7467.5	7425.0
5°	7713.5	7625.4	7473.6	7306.6	7130.4	6958.9	6828.3	6746.3	6684.0	6652.1	6596.0
7.5°	7431.1	7302.0	7036.3	6747.8	6451.7	6181.4	5947.6	5800.3	5660.6	5595.3	5520.9
10°	7162.3	6969.5	6556.5	6131.3	5706.2	5297.7	4913.6	4641.8	4400.3	4265.2	4169.6
12.5°	6931.5	6667.3	6094.9	5519.4	4936.3	4354.8	3779.3	3326.8	2948.7	2749.8	2648.1
15°	6706.8	6387.9	5656.1	4925.7	4177.1	3386.1	2629.9	2116.7	1803.9	1679.4	1636.8
17.5°	6503.3	6094.9	5215.7	4327.5	3393.6	2437.0	1767.4	1485.0	1365.0	1324.1	1310.4
20°	6283.2	5798.8	4758.7	3701.9	2576.7	1703.7	1380.2	1255.7	1207.1	1195.0	1188.9
22.5°	6070.6	5507.3	4321.4	3032.3	1850.9	1314.9	1185.9	1134.3	1126.7	1137.3	1137.3
25°	5889.9	5246.1	3849.2	2332.3	1359.0	1106.9	1061.4	1049.2	1078.1	1117.5	1125.1
27.5°	5754.8	5032.0	3346.6	1721.9	1082.6	962.7	961.2	980.9	1052.3	1128.2	1143.4
30°	5662.1	4828.5	2809.1	1242.1	908.0	847.3	871.6	914.1	1018.9	1126.7	1155.5
32.5°	5615.1	4678.2	2248.8	961.2	777.4	744.0	785.0	836.6	939.9	1040.1	1078.1
35°	5651.5	4567.4	1720.4	801.7	686.3	660.5	703.0	753.1	813.9	856.4	885.2
37.5°	5788.2	4523.3	1298.2	718.2	624.1	599.8	633.2	662.0	686.3	698.5	712.1
40°	6082.7	4570.4	1040.1	675.7	589.1	558.8	572.4	583.1	598.3	610.4	616.5
42.5°	6517.0	4711.6	932.3	659.0	570.9	526.9	523.9	528.4	548.1	570.9	575.5
45°	7124.4	4960.6	924.7	669.6	561.8	501.1	487.4	493.5	523.9	558.8	564.8
47.5°	7900.3	5340.2	985.4	701.5	569.4	487.4	464.6	472.2	510.2	557.3	564.8
50°	8840.2	5870.2	1087.2	748.6	602.8	490.4	457.0	461.6	501.1	552.7	560.3
52.5°	9950.1	6621.8	1198.0	794.1	637.7	510.2	463.1	452.5	488.9	534.5	543.6
55°	11184.6	7586.0	1311.9	835.1	656.0	534.5	475.3	440.3	466.2	504.1	511.7
57.5°	12700.0	8934.3	1509.3	874.6	668.1	551.2	487.4	428.2	437.3	464.6	470.7
60°	14751.3	10841.4	1857.0	939.9	695.4	557.3	485.9	417.6	408.5	423.6	426.7
62.5°	17209.6	12912.5	2147.0	1021.9	741.0	561.8	476.8	410.0	384.2	384.2	387.2
65°	18668.8	13466.8	1986.1	1090.2	778.9	557.3	466.2	402.4	365.9	349.2	350.8
67.5°	17431.3	11843.6	1702.1	1103.9	777.4	536.0	449.4	388.7	347.7	321.9	320.4
69°	15881.0	10218.9	1574.6	1067.4	741.0	508.7	428.2	373.5	334.0	306.7	305.2
70°	14631.4	9227.4	1491.1	1028.0	701.5	488.9	411.5	359.9	323.4	297.6	294.6
72.5°	10638.0	6046.3	1273.9	883.7	578.5	410.0	355.3	315.8	288.5	273.3	270.3
75°	5315.9	2883.5	1034.0	716.7	443.4	328.0	291.5	264.2	250.5	247.5	246.0
77.5°	1746.2	1321.0	739.5	534.5	329.5	256.6	235.4	215.6	212.6	221.7	218.7
80°	959.6	768.3	469.2	353.8	224.7	188.3	185.2	174.6	179.2	194.4	191.3
82.5°	488.9	399.3	290.0	212.6	151.8	135.1	147.3	141.2	147.3	161.0	159.4
85°	241.4	218.7	183.7	129.1	100.2	86.5	104.8	109.3	112.4	123.0	123.0
87.5°	139.7	129.1	97.2	60.7	50.1	45.6	60.7	59.2	69.8	75.9	74.4
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)