

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: P191955

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191955  
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-07-LED-E1-SL3-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 27742 lumens  
Efficiency: N/A  
Efficacy: 122.8 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

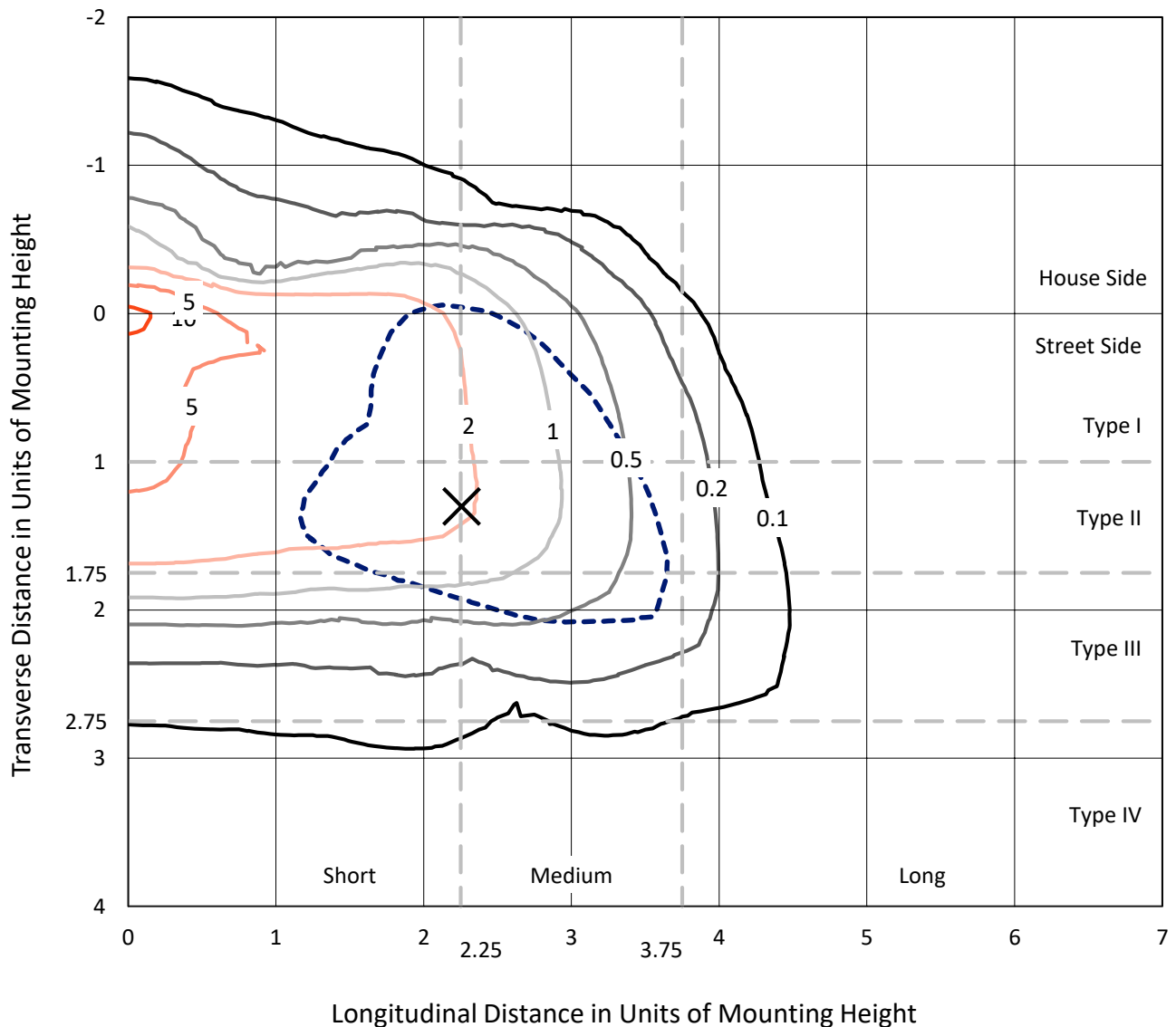
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

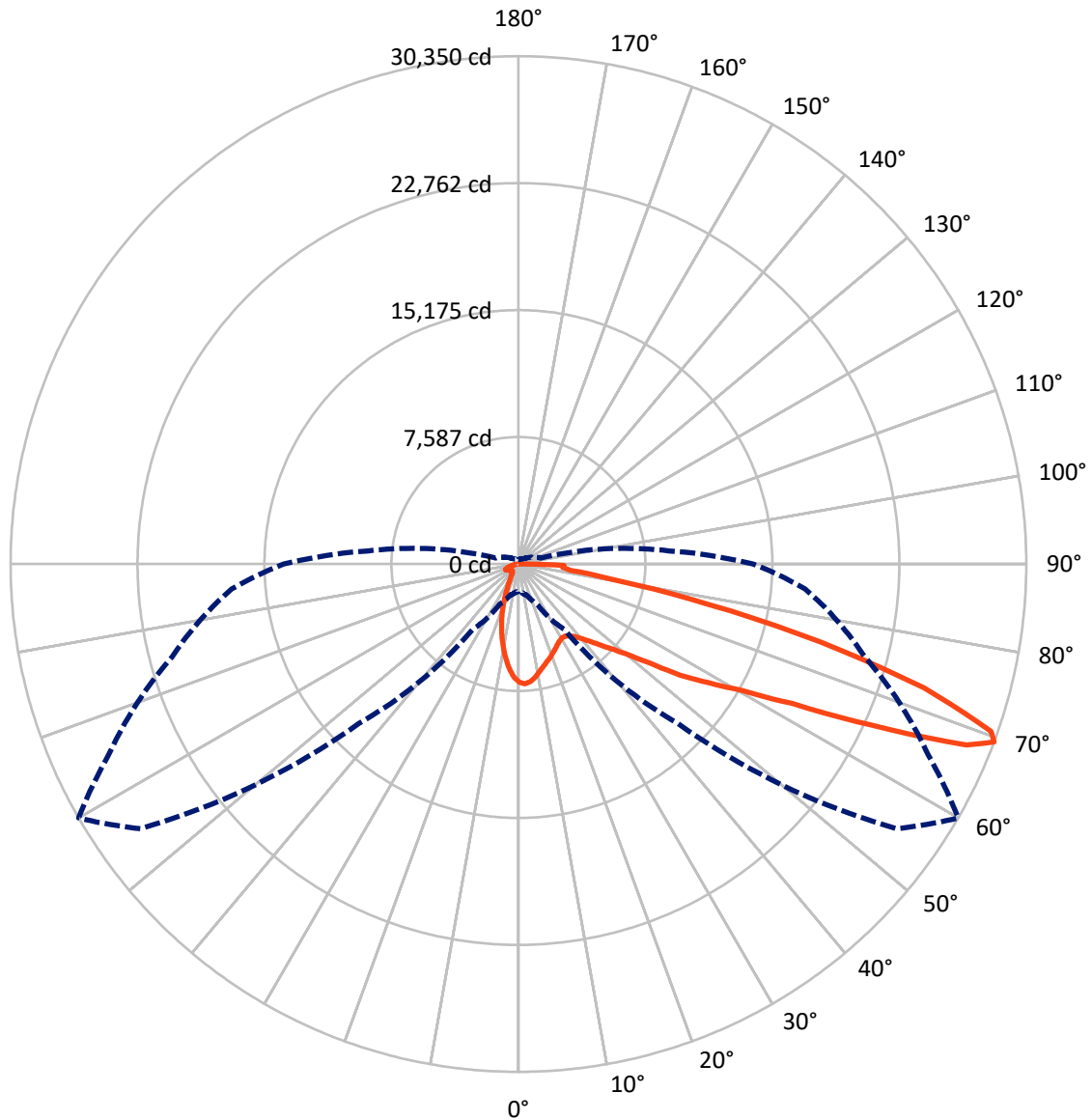
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
<b>House Side</b>	Lumens	3946.8	0.0	3946.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23795.2	0.0	23795.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	27742.0	0.0	27742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	597.7	2.2
10°-20°	1273.5	4.6
20°-30°	1622.6	5.8
30°-40°	2230.7	8.0
40°-50°	3619.5	13.0
50°-60°	5804.8	20.9
60°-70°	7725.8	27.8
70°-80°	4171.3	15.0
80°-90°	696.0	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°	27742.0	100.0
0°-180°	27742.0	100.0

**Coefficient of Utilization**



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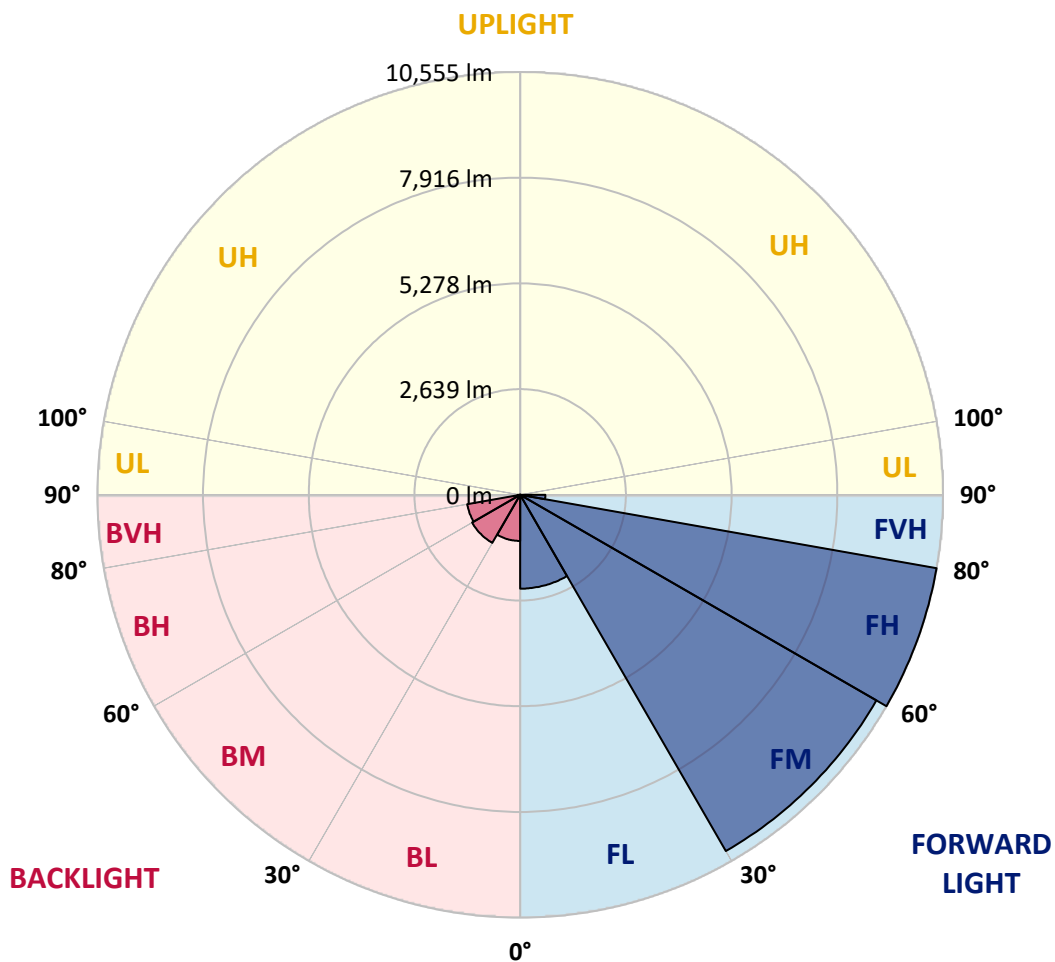
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2342.4	8.4			
FM	(30°-60°)	10268.5	37.0			
FH	(60°-80°)	10555.3	38.0			G4/12000
FVH	(80°-90°)	629.0	2.3			G4/750
BL	(0°-30°)	1151.4	4.2	B3/2500		
BM	(30°-60°)	1386.6	5.0	B2/2500		
BH	(60°-80°)	1341.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	67.0	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°	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1
2.5°	7213.8	7229.9	7223.2	7219.2	7231.2	7212.5	7173.6	7161.6	7142.8	7098.6	7023.5
5°	6943.1	6991.4	6988.7	7024.9	7085.2	7101.2	7083.8	7086.5	7051.7	6996.7	6872.1
7.5°	6475.4	6495.5	6506.2	6585.3	6695.2	6783.6	6858.7	6882.8	6866.7	6819.8	6659.0
10°	5993.0	6009.1	6034.5	6127.0	6266.4	6388.3	6530.4	6612.1	6646.9	6638.9	6459.3
12.5°	5578.9	5595.0	5628.5	5733.0	5899.2	6049.3	6255.6	6357.5	6440.6	6490.2	6297.2
15°	5207.7	5242.5	5274.7	5395.3	5581.6	5778.6	6011.7	6140.4	6269.0	6380.3	6153.8
17.5°	4918.2	4953.0	4971.8	5081.7	5280.0	5521.3	5794.6	5946.1	6106.9	6289.1	6011.7
20°	4750.7	4766.8	4758.7	4820.4	4998.6	5254.6	5578.9	5754.4	5948.8	6203.4	5869.7
22.5°	4703.8	4705.1	4675.6	4668.9	4784.2	5000.0	5348.4	5561.5	5800.0	6147.1	5747.7
25°	4817.7	4813.7	4733.3	4667.6	4679.7	4805.6	5125.9	5373.8	5675.4	6135.0	5653.9
27.5°	5071.0	5083.0	4963.8	4840.5	4718.5	4714.5	4957.1	5218.4	5573.5	6190.0	5613.7
30°	5426.1	5446.2	5318.9	5162.1	4932.9	4744.0	4891.4	5125.9	5510.5	6303.9	5607.0
32.5°	5814.7	5836.2	5739.7	5574.9	5274.7	4926.2	4937.0	5134.0	5507.9	6463.4	5652.6
35°	6228.8	6253.0	6203.4	6064.0	5730.3	5262.6	5111.2	5264.0	5595.0	6707.3	5774.5
37.5°	6691.2	6728.7	6742.1	6609.4	6253.0	5706.2	5396.6	5510.5	5792.0	7046.3	5998.3
40°	7357.2	7409.5	7405.5	7215.2	6852.0	6305.2	5837.5	5867.0	6098.8	7499.3	6356.1
42.5°	8633.0	8643.7	8310.0	7895.9	7511.3	6935.1	6357.5	6333.4	6522.3	8072.8	6882.8
45°	10255.9	10211.6	9469.2	8669.2	8200.1	7658.7	7034.2	6916.3	7059.7	8772.4	7542.1
47.5°	11602.7	11500.8	10562.8	9458.5	8929.2	8445.4	7828.9	7622.5	7701.6	9565.7	8394.5
50°	12070.4	11994.0	11216.7	10115.2	9619.3	9404.9	8807.2	8515.1	8536.5	10511.8	9392.8
52.5°	11969.9	11959.1	11440.5	10548.0	10265.2	10412.7	10192.9	9797.5	9588.5	11562.5	10470.3
55°	11732.7	11755.4	11567.8	11051.9	11003.6	11385.6	12003.4	11711.2	11061.3	12622.5	11583.9
57.5°	10908.5	10967.5	11380.2	11685.8	12192.3	12760.5	13461.4	13378.3	12646.6	13768.3	12907.9
60°	8788.4	8925.1	10032.1	11562.5	13415.8	15192.8	15506.4	15313.4	14281.6	15190.2	14656.8
62.5°	6157.8	6299.9	7615.8	10010.6	13214.8	17940.1	19162.2	18330.0	16629.4	17284.7	16920.2
65°	3296.7	3365.0	4370.1	6945.8	11156.4	18506.9	24505.3	23238.9	20346.9	19867.1	18856.7
67.5°	1818.5	1856.1	2240.7	3507.1	7145.5	16297.1	27909.1	28866.0	24993.1	21586.5	18504.2
69°	1644.3	1679.2	1931.1	2656.1	4781.5	13474.8	27576.8	30349.5	27030.0	21416.3	17201.7
70°	1608.1	1640.3	1866.8	2448.4	3870.2	11106.8	26463.2	29970.2	27515.1	20806.6	16065.2
72.5°	1447.3	1482.2	1701.9	2199.1	3307.4	5537.3	20962.0	25340.1	24981.0	18040.6	12185.6
75°	1349.5	1381.7	1754.2	2153.6	3166.7	3504.4	13819.2	18675.8	18363.5	12619.8	6570.6
77.5°	577.6	574.9	813.4	1822.6	3213.6	3393.2	7425.6	11667.0	10644.5	5393.9	1886.9
80°	386.0	379.3	386.0	536.0	2946.9	3411.9	3890.3	5921.9	4473.3	1375.0	930.0
82.5°	332.3	327.0	339.0	327.0	1035.9	3894.4	3307.4	3149.3	2126.8	781.3	461.0
85°	223.8	214.4	292.1	293.5	489.1	3460.2	3725.5	2660.1	1720.7	463.7	227.8
87.5°	107.2	104.5	170.2	207.7	286.8	1405.8	4179.8	2725.8	1735.4	237.2	108.5
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°	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1	7069.1
2.5°	7000.7	6945.8	6892.2	6827.9	6760.9	6685.8	6648.3	6610.8	6601.4	6590.7	6553.1
5°	6807.8	6730.0	6596.0	6448.6	6293.2	6141.7	6026.5	5954.1	5899.2	5871.0	5821.4
7.5°	6558.5	6444.6	6210.1	5955.5	5694.1	5455.6	5249.2	5119.2	4995.9	4938.3	4872.6
10°	6321.3	6151.1	5786.6	5411.4	5036.1	4675.6	4336.6	4096.7	3883.6	3764.4	3679.9
12.5°	6117.6	5884.4	5379.2	4871.3	4356.7	3843.4	3335.5	2936.2	2602.5	2426.9	2337.2
15°	5919.3	5637.8	4991.9	4347.3	3686.6	2988.4	2321.1	1868.1	1592.1	1482.2	1444.6
17.5°	5739.7	5379.2	4603.3	3819.3	2995.1	2150.9	1559.9	1310.6	1204.8	1168.6	1156.5
20°	5545.4	5117.9	4199.9	3267.2	2274.2	1503.6	1218.2	1108.3	1065.4	1054.7	1049.3
22.5°	5357.8	4860.6	3814.0	2676.2	1633.6	1160.5	1046.6	1001.1	994.4	1003.7	1003.7
25°	5198.3	4630.1	3397.2	2058.4	1199.4	976.9	936.7	926.0	951.5	986.3	993.0
27.5°	5079.0	4441.1	2953.6	1519.7	955.5	849.6	848.3	865.7	928.7	995.7	1009.1
30°	4997.3	4261.6	2479.2	1096.2	801.4	747.8	769.2	806.7	899.2	994.4	1019.8
32.5°	4955.7	4128.9	1984.7	848.3	686.1	656.7	692.8	738.4	829.5	918.0	951.5
35°	4987.9	4031.1	1518.3	707.6	605.7	582.9	620.5	664.7	718.3	755.8	781.3
37.5°	5108.5	3992.2	1145.8	633.9	550.8	529.3	558.8	584.3	605.7	616.5	628.5
40°	5368.5	4033.7	918.0	596.3	520.0	493.2	505.2	514.6	528.0	538.7	544.1
42.5°	5751.8	4158.4	822.8	581.6	503.9	465.0	462.3	466.4	483.8	503.9	507.9
45°	6287.8	4378.1	816.1	591.0	495.8	442.2	430.2	435.5	462.3	493.2	498.5
47.5°	6972.6	4713.2	869.7	619.1	502.5	430.2	410.1	416.8	450.3	491.8	498.5
50°	7802.1	5180.9	959.5	660.7	532.0	432.9	403.4	407.4	442.2	487.8	494.5
52.5°	8781.7	5844.2	1057.3	700.9	562.8	450.3	408.7	399.4	431.5	471.7	479.8
55°	9871.3	6695.2	1157.9	737.1	578.9	471.7	419.5	388.6	411.4	444.9	451.6
57.5°	11208.7	7885.2	1332.1	771.9	589.6	486.5	430.2	377.9	386.0	410.1	415.4
60°	13019.2	9568.4	1639.0	829.5	613.8	491.8	428.8	368.5	360.5	373.9	376.6
62.5°	15188.8	11396.3	1894.9	901.9	654.0	495.8	420.8	361.8	339.0	339.0	341.7
65°	16476.7	11885.4	1752.9	962.2	687.5	491.8	411.4	355.1	323.0	308.2	309.6
67.5°	15384.5	10452.9	1502.3	974.3	686.1	473.1	396.7	343.1	306.9	284.1	282.8
69°	14016.2	9018.9	1389.7	942.1	654.0	448.9	377.9	329.7	294.8	270.7	269.4
70°	12913.3	8143.9	1316.0	907.3	619.1	431.5	363.2	317.6	285.4	262.7	260.0
72.5°	9388.8	5336.3	1124.4	779.9	510.6	361.8	313.6	278.7	254.6	241.2	238.5
75°	4691.7	2544.9	912.6	632.5	391.3	289.5	257.3	233.2	221.1	218.4	217.1
77.5°	1541.1	1165.9	652.6	471.7	290.8	226.5	207.7	190.3	187.6	195.7	193.0
80°	846.9	678.1	414.1	312.2	198.3	166.2	163.5	154.1	158.1	171.5	168.9
82.5°	431.5	352.4	256.0	187.6	134.0	119.3	130.0	124.6	130.0	142.1	140.7
85°	213.1	193.0	162.2	113.9	88.4	76.4	92.5	96.5	99.2	108.5	108.5
87.5°	123.3	113.9	85.8	53.6	44.2	40.2	53.6	52.3	61.6	67.0	65.7
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)