

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: P191155

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191155  
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-SL3-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 28378.7 lumens  
Efficiency: N/A  
Efficacy: 125.6 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

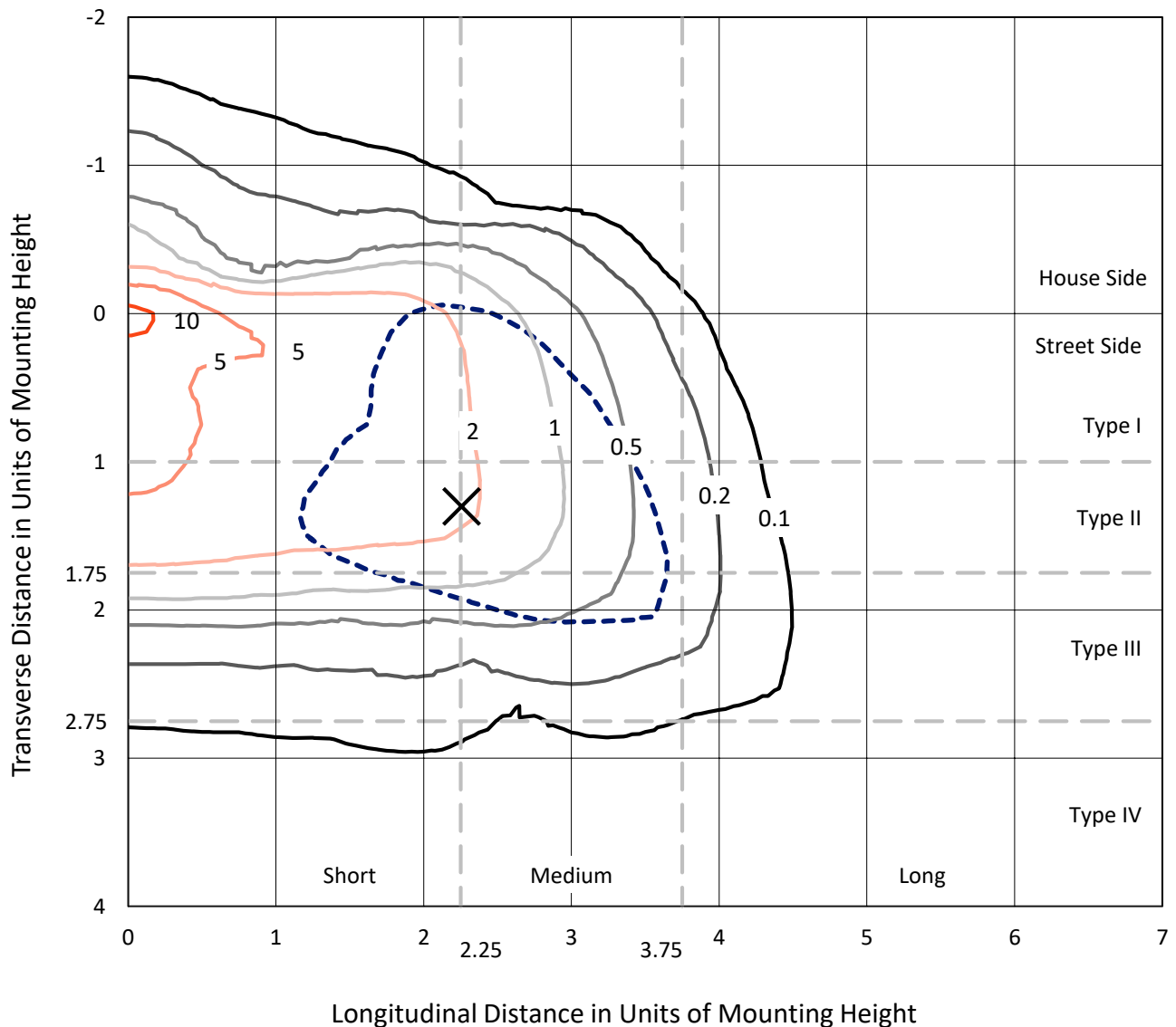
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

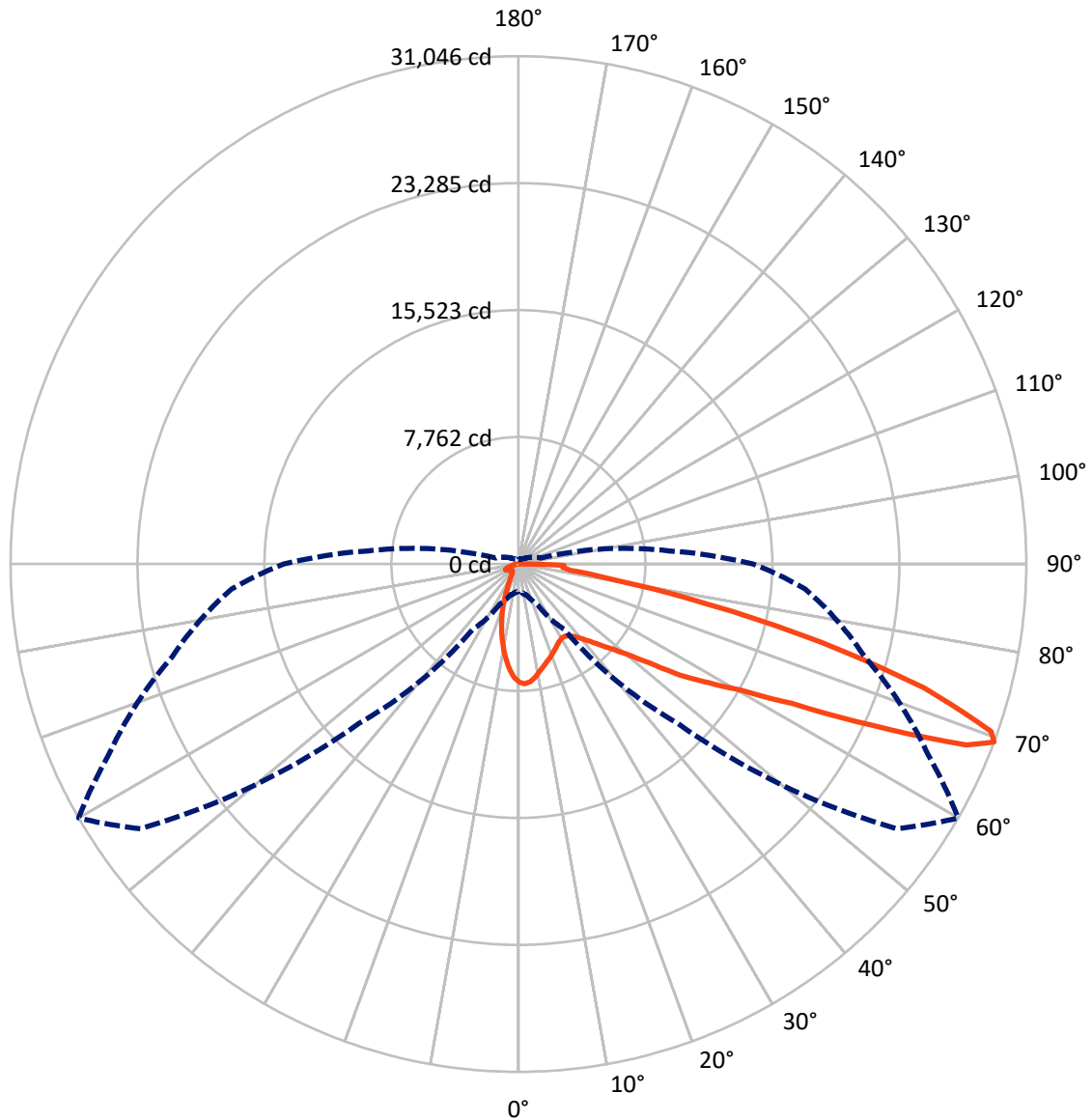
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	4037.4	0.0	4037.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	24341.3	0.0	24341.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	28378.7	0.0	28378.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.4	2.2
10°-20°	1302.7	4.6
20°-30°	1659.9	5.8
30°-40°	2281.9	8.0
40°-50°	3702.6	13.0
50°-60°	5938.0	20.9
60°-70°	7903.1	27.8
70°-80°	4267.1	15.0
80°-90°	712.0	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°	28378.7	100.0
0°-180°	28378.7	100.0

**Coefficient of Utilization**



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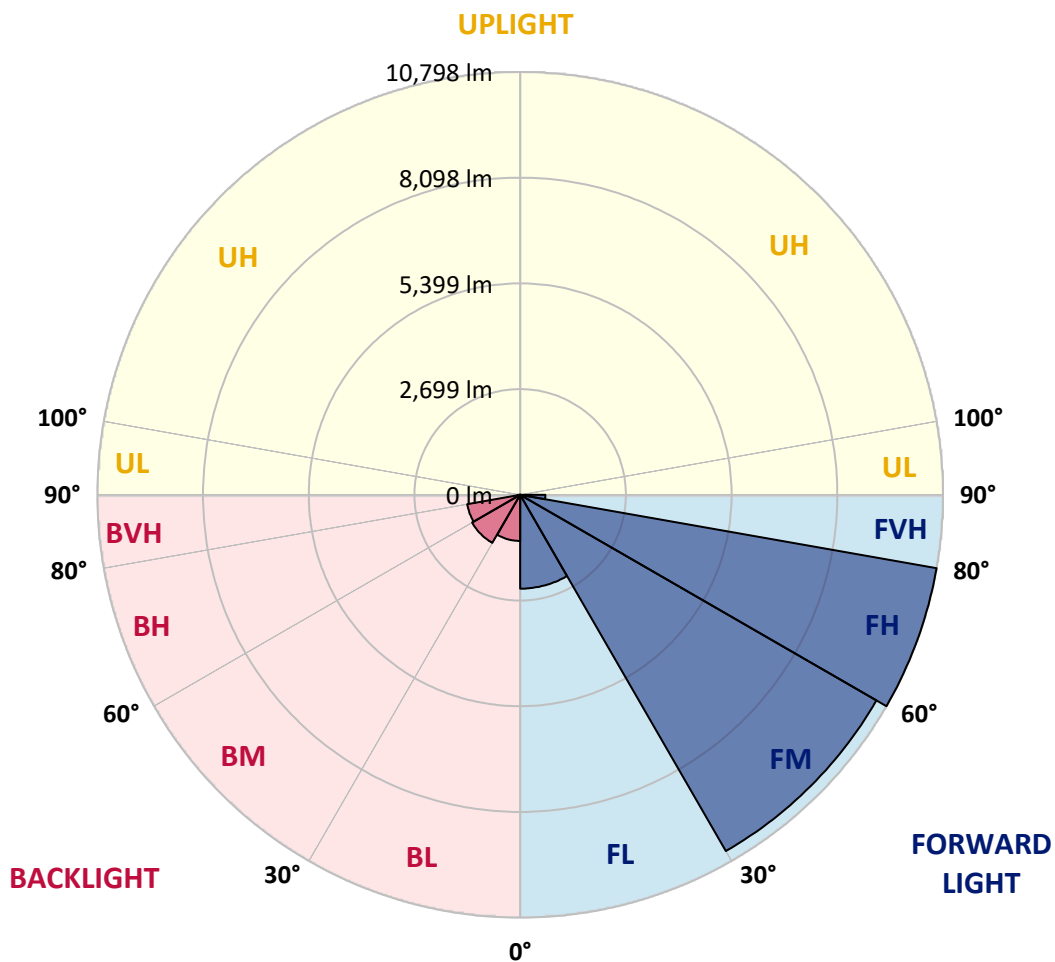
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.2	8.4			
FM	(30°-60°)	10504.1	37.0			
FH	(60°-80°)	10797.6	38.0			G4/12000
FVH	(80°-90°)	643.4	2.3			G4/750
BL	(0°-30°)	1177.8	4.2	B3/2500		
BM	(30°-60°)	1418.4	5.0	B2/2500		
BH	(60°-80°)	1372.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	68.6	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°	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3
2.5°	7379.4	7395.8	7389.0	7384.9	7397.2	7378.0	7338.2	7326.0	7306.7	7261.5	7184.7
5°	7102.4	7151.9	7149.1	7186.1	7247.8	7264.2	7246.4	7249.1	7213.5	7157.3	7029.8
7.5°	6624.0	6644.6	6655.5	6736.4	6848.9	6939.3	7016.1	7040.8	7024.3	6976.3	6811.8
10°	6130.5	6147.0	6173.0	6267.6	6410.2	6534.9	6680.3	6763.9	6799.5	6791.3	6607.5
12.5°	5706.9	5723.4	5757.7	5864.6	6034.6	6188.1	6399.2	6503.4	6588.4	6639.2	6441.7
15°	5327.2	5362.8	5395.8	5519.1	5709.7	5911.2	6149.7	6281.3	6412.9	6526.7	6295.0
17.5°	5031.1	5066.7	5085.9	5198.3	5401.2	5648.0	5927.6	6082.6	6247.1	6433.4	6149.7
20°	4859.7	4876.2	4867.9	4931.0	5113.3	5375.2	5706.9	5886.5	6085.3	6345.8	6004.4
22.5°	4811.8	4813.1	4782.9	4776.1	4894.0	5114.8	5471.2	5689.1	5933.1	6288.2	5879.6
25°	4928.3	4924.2	4841.9	4774.7	4787.1	4915.9	5243.5	5497.1	5805.7	6275.8	5783.7
27.5°	5187.4	5199.7	5077.7	4951.6	4826.8	4822.7	5070.9	5338.2	5701.4	6332.1	5742.5
30°	5550.6	5571.2	5441.0	5280.6	5046.1	4852.9	5003.7	5243.5	5637.0	6448.6	5735.7
32.5°	5948.2	5970.1	5871.4	5702.8	5395.8	5039.3	5050.3	5251.8	5634.3	6611.7	5782.3
35°	6371.8	6396.5	6345.8	6203.2	5861.8	5383.4	5228.5	5384.8	5723.4	6861.2	5907.0
37.5°	6844.8	6883.1	6896.8	6761.1	6396.5	5837.2	5520.5	5637.0	5924.9	7208.0	6136.0
40°	7526.1	7579.6	7575.5	7380.8	7009.3	6449.9	5971.5	6001.7	6238.8	7671.4	6502.0
42.5°	8831.1	8842.1	8500.7	8077.1	7683.7	7094.3	6503.4	6478.8	6672.0	8258.1	7040.8
45°	10491.3	10446.0	9686.5	8868.2	8388.3	7834.5	7195.6	7075.0	7221.7	8973.7	7715.2
47.5°	11869.0	11764.8	10805.2	9675.6	9134.1	8639.2	8008.6	7797.4	7878.4	9785.2	8587.2
50°	12347.4	12269.3	11474.1	10347.4	9840.1	9620.8	9009.3	8710.5	8732.4	10753.1	9608.4
52.5°	12244.6	12233.6	11703.1	10790.1	10500.8	10651.7	10426.8	10022.4	9808.6	11827.9	10710.6
55°	12002.0	12025.2	11833.3	11305.6	11256.1	11646.9	12278.9	11980.0	11315.2	12912.2	11849.8
57.5°	11158.9	11219.2	11641.4	11954.0	12472.1	13053.4	13770.4	13685.3	12936.8	14084.3	13204.1
60°	8990.1	9129.9	10262.3	11827.9	13723.7	15541.5	15862.3	15664.9	14609.4	15538.8	14993.2
62.5°	6299.1	6444.5	7790.6	10240.4	13518.1	18351.8	19602.0	18750.7	17011.1	17681.4	17308.5
65°	3372.4	3442.2	4470.4	7105.2	11412.4	18931.6	25067.7	23772.3	20813.9	20323.1	19289.5
67.5°	1860.2	1898.7	2292.1	3587.6	7309.5	16671.1	28549.6	29528.5	25566.7	22081.9	18928.9
69°	1682.0	1717.7	1975.4	2717.1	4891.2	13784.1	28209.7	31046.0	27650.4	21907.8	17596.5
70°	1645.0	1677.9	1909.6	2504.6	3959.0	11361.7	27070.6	30658.0	28146.6	21284.1	16433.9
72.5°	1480.5	1516.2	1741.0	2249.6	3383.3	5664.4	21443.1	25921.7	25554.3	18454.6	12465.3
75°	1380.5	1413.4	1794.5	2203.0	3239.4	3584.8	14136.4	19104.4	18785.0	12909.4	6721.4
77.5°	590.9	588.1	832.1	1864.4	3287.4	3471.1	7596.0	11934.8	10888.8	5517.7	1930.2
80°	394.9	388.0	394.9	548.3	3014.5	3490.2	3979.6	6057.8	4576.0	1406.6	951.3
82.5°	339.9	334.5	346.8	334.5	1059.7	3983.8	3383.3	3221.6	2175.6	799.2	471.6
85°	228.9	219.3	298.8	300.2	500.3	3539.6	3811.0	2721.2	1760.2	474.3	233.0
87.5°	109.7	106.9	174.1	212.5	293.4	1438.1	4275.7	2788.4	1775.2	242.6	111.0
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°	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3	7231.3
2.5°	7161.4	7105.2	7050.4	6984.6	6916.1	6839.2	6800.9	6762.5	6752.9	6742.0	6703.5
5°	6964.0	6884.5	6747.4	6596.6	6437.6	6282.7	6164.8	6090.8	6034.6	6005.7	5955.0
7.5°	6709.0	6592.5	6352.6	6092.2	5824.8	5580.8	5369.7	5236.7	5110.6	5051.6	4984.4
10°	6466.4	6292.3	5919.4	5535.6	5151.7	4782.9	4436.1	4190.7	3972.7	3850.8	3764.4
12.5°	6258.0	6019.5	5502.7	4983.1	4456.7	3931.6	3412.1	3003.6	2662.2	2482.6	2390.8
15°	6055.2	5767.2	5106.5	4447.1	3771.2	3057.0	2374.4	1911.0	1628.6	1516.2	1477.8
17.5°	5871.4	5502.7	4708.9	3907.0	3063.8	2200.3	1595.7	1340.7	1232.5	1195.4	1183.0
20°	5672.7	5235.4	4296.3	3342.2	2326.4	1538.1	1246.2	1133.7	1089.9	1078.9	1073.4
22.5°	5480.8	4972.2	3901.5	2737.6	1671.1	1187.1	1070.6	1024.1	1017.2	1026.7	1026.7
25°	5317.6	4736.4	3475.2	2105.6	1226.9	999.3	958.2	947.3	973.3	1008.9	1015.8
27.5°	5195.6	4543.0	3021.4	1554.6	977.4	869.1	867.8	885.6	950.0	1018.6	1032.3
30°	5112.0	4359.4	2536.1	1121.4	819.8	765.0	786.9	825.2	919.8	1017.2	1043.2
32.5°	5069.4	4223.7	2030.3	867.8	701.8	671.8	708.7	755.3	848.5	939.1	973.3
35°	5102.4	4123.6	1553.1	723.8	619.6	596.3	634.7	680.0	734.8	773.1	799.2
37.5°	5225.7	4083.8	1172.1	648.4	563.4	541.4	571.6	597.7	619.6	630.6	642.9
40°	5491.7	4126.3	939.1	610.0	531.9	504.5	516.8	526.4	540.1	551.1	556.6
42.5°	5883.8	4253.8	841.7	594.9	515.5	475.7	472.9	477.1	494.9	515.5	519.6
45°	6432.1	4478.6	834.8	604.6	507.2	452.3	440.1	445.5	472.9	504.5	509.9
47.5°	7132.6	4821.4	889.7	633.3	514.0	440.1	419.5	426.4	460.6	503.1	509.9
50°	7981.2	5299.8	981.5	675.9	544.2	442.8	412.7	416.8	452.3	499.0	505.8
52.5°	8983.2	5978.3	1081.6	717.0	575.7	460.6	418.1	408.6	441.4	482.5	490.8
55°	10097.9	6848.9	1184.5	754.0	592.2	482.5	429.1	397.5	420.8	455.1	462.0
57.5°	11465.9	8066.2	1362.7	789.6	603.1	497.7	440.1	386.6	394.9	419.5	424.9
60°	13318.0	9788.0	1676.6	848.5	627.9	503.1	438.6	377.0	368.8	382.5	385.2
62.5°	15537.4	11657.9	1938.4	922.6	669.0	507.2	430.5	370.1	346.8	346.8	349.5
65°	16854.9	12158.2	1793.1	984.3	703.3	503.1	420.8	363.2	330.4	315.3	316.7
67.5°	15737.6	10692.8	1536.8	996.7	701.8	484.0	405.8	351.0	313.9	290.6	289.3
69°	14337.9	9225.9	1421.6	963.7	669.0	459.2	386.6	337.3	301.6	276.9	275.6
70°	13209.7	8330.8	1346.2	928.1	633.3	441.4	371.5	324.9	292.0	268.7	266.0
72.5°	9604.3	5458.8	1150.2	797.8	522.3	370.1	320.8	285.1	260.4	246.7	244.0
75°	4799.4	2603.3	933.5	647.0	400.3	296.1	263.2	238.6	226.2	223.4	222.1
77.5°	1576.5	1192.7	667.6	482.5	297.5	231.7	212.5	194.7	191.9	200.2	197.4
80°	866.3	693.7	423.6	319.4	202.9	170.0	167.3	157.6	161.7	175.4	172.8
82.5°	441.4	360.5	261.9	191.9	137.1	122.0	133.0	127.5	133.0	145.4	143.9
85°	218.0	197.4	165.9	116.5	90.4	78.2	94.6	98.7	101.5	111.0	111.0
87.5°	126.1	116.5	87.8	54.8	45.2	41.1	54.8	53.5	63.0	68.5	67.2
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)