

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: P193795

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193795  
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-07-LED-E1-SL4-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA 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: 32645 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

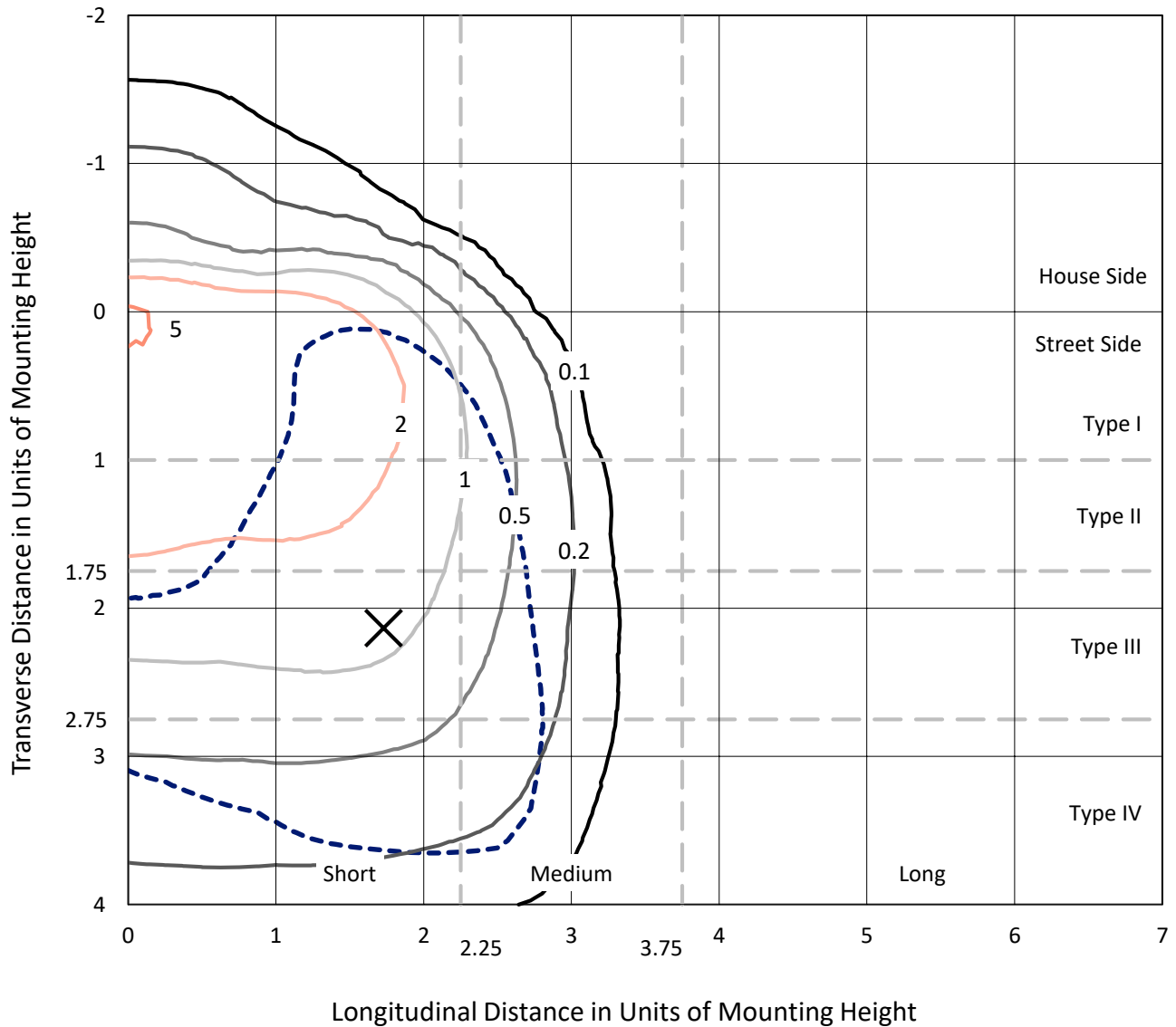
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

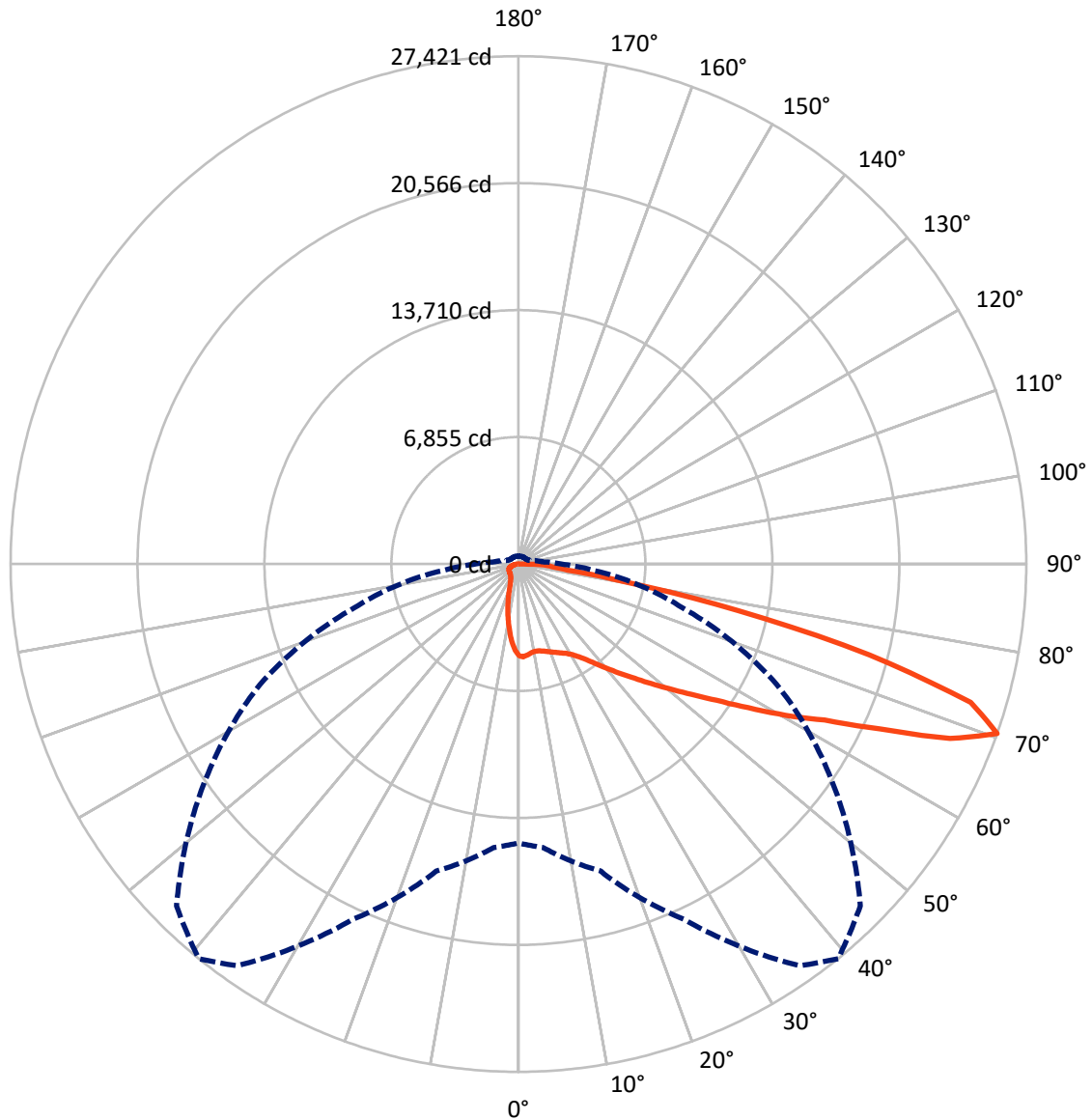
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3712.8	0.0	3712.8
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	28932.2	0.0	28932.2
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	32645.0	0.0	32645.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.3	1.3
10°-20°	1063.1	3.3
20°-30°	1655.3	5.1
30°-40°	2578.7	7.9
40°-50°	4329.2	13.3
50°-60°	6877.3	21.1
60°-70°	9173.6	28.1
70°-80°	5539.7	17.0
80°-90°	1002.6	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°	32645.0	100.0
0°-180°	32645.0	100.0



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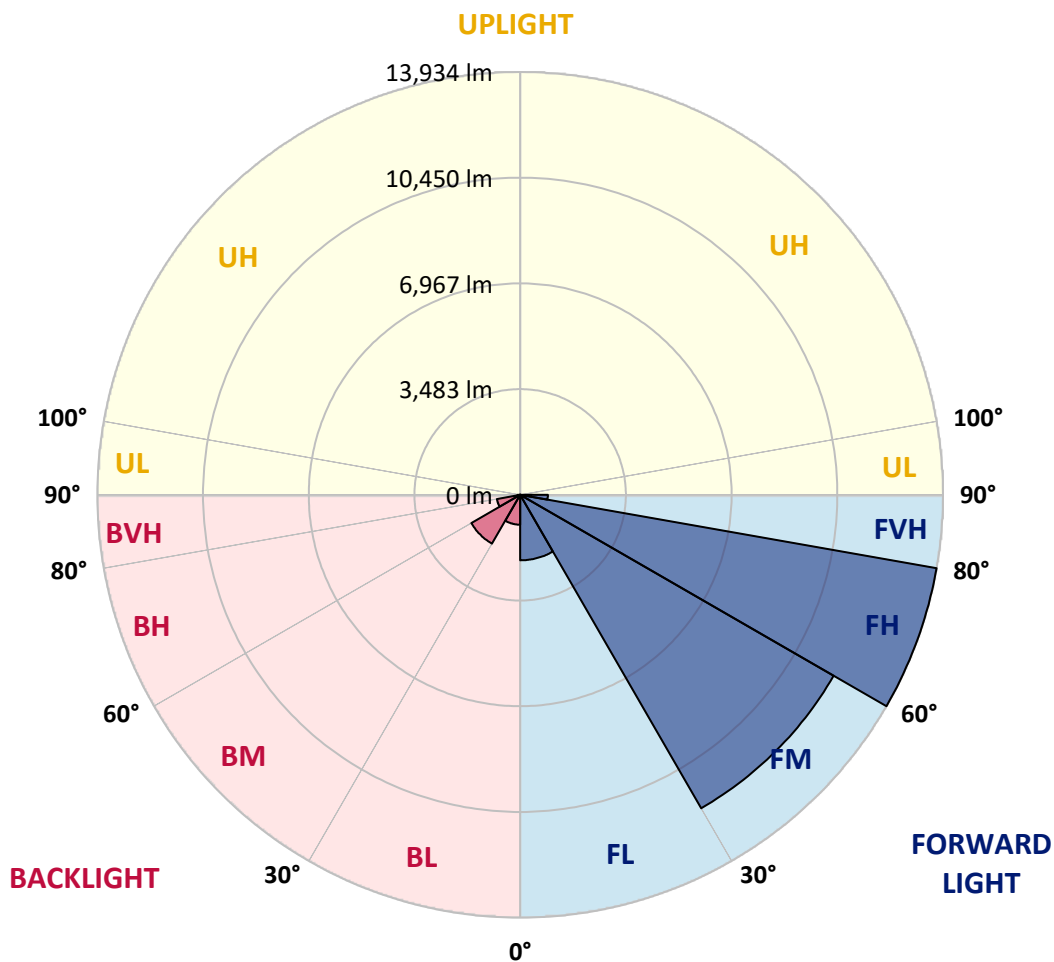
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.8	6.6			
FM	(30°-60°)	11927.2	36.5			
FH	(60°-80°)	13933.8	42.7			G5
FVH	(80°-90°)	912.2	2.8			G5
BL	(0°-30°)	984.9	3.0	B2/1000		
BM	(30°-60°)	1858.1	5.7	B2/2500		
BH	(60°-80°)	779.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	90.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0
2.5°	5052.3	5050.6	5037.3	5027.4	5019.1	5015.8	5022.4	4997.5	4975.9	4949.4	4921.2
5°	5014.1	5012.4	4990.9	4971.0	4951.0	4944.4	4942.7	4897.9	4871.4	4831.5	4778.4
7.5°	4972.6	4964.3	4936.1	4902.9	4868.1	4851.5	4834.9	4776.8	4746.9	4707.1	4645.6
10°	4929.5	4919.5	4892.9	4859.8	4826.6	4801.7	4773.4	4717.0	4685.5	4655.6	4584.2
12.5°	4884.6	4876.3	4869.7	4854.8	4831.5	4810.0	4788.4	4740.2	4707.1	4672.2	4589.2
15°	4878.0	4874.7	4889.6	4899.6	4886.3	4873.0	4849.8	4808.3	4773.4	4738.6	4630.7
17.5°	4931.1	4929.5	4967.6	4994.2	4987.6	4964.3	4932.8	4886.3	4858.1	4828.2	4693.8
20°	5047.3	5055.6	5102.1	5136.9	5103.7	5070.5	5019.1	4954.4	4939.4	4926.1	4758.5
22.5°	5266.4	5274.7	5307.9	5321.2	5234.9	5186.7	5115.4	5032.4	5022.4	5032.4	4836.5
25°	5608.3	5600.0	5595.0	5545.2	5387.6	5312.9	5221.6	5135.3	5140.2	5185.1	4946.1
27.5°	6061.4	6016.6	5946.9	5797.5	5546.9	5463.9	5352.7	5273.0	5304.6	5390.9	5110.4
30°	6531.1	6481.3	6320.3	6076.3	5756.0	5664.7	5540.2	5450.6	5533.6	5669.7	5329.5
32.5°	6966.0	6959.3	6723.7	6410.0	6044.8	5965.1	5840.7	5739.4	5873.9	6081.3	5658.1
35°	7440.7	7455.6	7173.4	6796.7	6434.9	6351.9	6262.2	6185.9	6365.1	6650.6	6134.4
37.5°	7948.5	7978.4	7644.8	7219.9	6879.7	6844.8	6791.7	6758.5	7035.7	7430.7	6800.0
40°	8627.4	8597.5	8134.4	7697.9	7425.7	7424.1	7407.5	7447.3	7908.7	8449.8	7654.8
42.5°	9354.4	9266.4	8653.9	8210.8	8024.9	8081.3	8114.5	8277.2	8959.3	9688.0	8697.1
45°	10137.8	9940.2	9193.4	8753.5	8690.5	8810.0	8922.8	9276.3	10195.9	11097.1	9839.0
47.5°	10763.5	10572.6	9751.0	9322.8	9460.6	9641.5	9858.9	10418.3	11580.1	12552.7	10966.0
50°	11256.4	11132.0	10313.7	9986.7	10308.7	10587.6	10942.7	11711.2	13020.7	13970.1	12010.0
52.5°	11734.4	11641.5	10881.3	10667.2	11304.6	11689.6	12172.6	13098.8	14497.9	15364.3	12888.0
55°	12166.0	12099.6	11492.1	11515.4	12476.3	12977.6	13585.1	14678.8	16107.9	16607.5	13631.5
57.5°	12652.3	12567.6	12189.2	12579.3	13981.7	14632.4	15422.4	16454.8	17618.3	17712.9	14197.5
60°	13141.9	13068.9	12962.7	13807.5	15893.8	16577.6	17326.1	18175.9	19150.2	18571.0	14164.3
62.5°	13566.8	13575.1	13762.7	15097.1	17766.0	18557.7	19470.5	20310.4	20536.1	18720.3	13117.0
65°	14287.1	14418.3	14977.6	16922.8	20401.7	21460.6	22580.9	22446.5	20919.5	17324.5	10871.4
67.5°	15143.6	15374.3	16507.9	19356.0	23732.8	25138.6	25571.8	22929.5	19384.2	14083.0	7749.4
70°	15057.3	15374.3	17168.5	21170.1	26478.0	27420.7	26106.2	20751.9	15392.5	9200.0	4116.2
72.5°	13371.0	13824.1	15822.4	20338.6	25613.3	25530.3	22663.9	15470.5	9145.2	3694.6	1608.3
75°	10190.9	10649.0	12368.5	16068.1	20244.0	19546.9	16081.3	8546.1	3470.5	1467.2	1014.1
77.5°	5862.2	6217.4	7545.2	9853.9	12843.2	12127.8	8951.0	3800.8	1689.6	1022.4	791.7
80°	3273.0	3470.5	4277.2	4999.2	6293.8	5769.3	4005.0	2361.8	1261.4	741.9	610.8
82.5°	2587.6	2763.5	3458.9	3153.5	2874.7	2652.3	2300.4	2102.9	1007.5	468.0	365.1
85°	2260.6	2428.2	2927.8	2483.0	1963.5	1800.8	1868.9	2069.7	783.4	282.2	312.0
87.5°	2094.6	2318.7	2609.1	1913.7	1528.6	1354.4	1724.5	2268.9	252.3	175.9	126.1
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°	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0	4956.0
2.5°	4896.3	4869.7	4826.6	4788.4	4728.6	4697.1	4662.2	4637.3	4617.4	4600.8	4627.4
5°	4745.2	4695.4	4604.1	4506.2	4390.0	4298.8	4222.4	4151.0	4101.2	4068.1	4091.3
7.5°	4602.5	4521.2	4378.4	4200.8	4001.7	3832.4	3692.9	3570.1	3485.5	3430.7	3452.3
10°	4521.2	4419.9	4199.2	3920.3	3626.6	3362.7	3143.6	2954.4	2823.2	2748.5	2760.2
12.5°	4501.2	4370.1	4064.7	3681.3	3279.7	2912.9	2604.1	2341.9	2157.7	2061.4	2064.7
15°	4516.2	4348.5	3938.6	3452.3	2944.4	2481.3	2096.3	1777.6	1563.5	1453.9	1452.3
17.5°	4541.1	4332.0	3805.8	3205.0	2604.1	2066.4	1636.5	1324.5	1135.3	1047.3	1040.7
20°	4567.6	4305.4	3656.4	2937.8	2250.6	1681.3	1281.3	1037.3	917.8	869.7	866.4
22.5°	4605.8	4282.2	3502.1	2655.6	1903.7	1369.3	1053.9	889.6	826.6	801.7	798.3
25°	4667.2	4270.5	3337.8	2361.8	1591.7	1145.2	917.8	816.6	780.1	763.5	761.8
27.5°	4770.1	4287.1	3183.4	2076.3	1337.8	994.2	841.5	780.1	753.5	738.6	736.9
30°	4902.9	4338.6	3020.7	1805.8	1140.2	891.3	795.0	755.2	733.6	718.7	718.7
32.5°	5123.7	4424.9	2849.8	1571.8	999.2	819.9	760.2	733.6	715.4	703.7	702.1
35°	5449.0	4587.6	2690.5	1377.6	897.9	768.5	730.3	710.4	697.1	690.5	690.5
37.5°	5922.0	4844.8	2549.4	1238.2	836.5	733.6	702.1	687.1	678.8	678.8	678.8
40°	6557.7	5200.0	2434.9	1145.2	801.7	708.7	680.5	668.9	663.9	665.6	665.6
42.5°	7342.7	5661.4	2358.5	1080.5	785.1	693.8	665.6	655.6	650.6	649.0	650.6
45°	8237.3	6185.9	2350.2	1032.4	768.5	683.8	655.6	645.6	635.7	629.0	629.0
47.5°	9107.1	6718.7	2418.3	1015.8	750.2	672.2	647.3	637.3	622.4	607.5	607.5
50°	9875.5	7171.8	2509.5	1022.4	743.6	655.6	634.0	629.0	605.8	589.2	587.6
52.5°	10486.3	7520.3	2584.2	1042.3	750.2	644.0	617.4	619.1	594.2	575.9	574.3
55°	10975.9	7749.4	2564.3	1062.2	765.1	637.3	602.5	605.8	585.9	567.6	567.6
57.5°	11190.0	7664.7	2343.6	1045.6	776.8	639.0	590.9	604.1	587.6	571.0	571.0
60°	10730.3	6912.9	1930.3	972.6	761.8	634.0	585.9	610.8	609.1	592.5	590.9
62.5°	9339.4	5566.8	1497.1	864.7	710.4	609.1	572.6	609.1	627.4	622.4	620.7
65°	7198.3	3965.1	1143.6	748.5	640.7	567.6	537.8	571.0	595.9	602.5	600.8
67.5°	4672.2	2429.9	881.3	639.0	562.7	519.5	492.9	507.9	512.9	512.9	509.5
70°	2297.1	1307.9	702.1	537.8	483.0	468.0	453.1	444.8	436.5	429.9	429.9
72.5°	1133.6	854.8	577.6	454.8	416.6	410.0	406.6	396.7	390.0	381.7	378.4
75°	838.2	695.4	491.3	383.4	358.5	351.9	358.5	350.2	348.5	341.9	338.6
77.5°	688.8	592.5	423.2	328.6	307.1	295.4	305.4	307.1	308.7	298.8	295.4
80°	559.3	501.2	353.5	272.2	252.3	244.0	250.6	263.9	267.2	252.3	245.6
82.5°	403.3	410.0	285.5	212.4	195.9	189.2	202.5	219.1	222.4	200.8	195.9
85°	338.6	341.9	219.1	151.0	134.4	124.5	146.1	162.7	174.3	152.7	147.7
87.5°	141.1	200.8	126.1	84.6	74.7	64.7	78.0	86.3	104.6	96.3	94.6
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)