

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: P191085

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191085  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34088.8 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

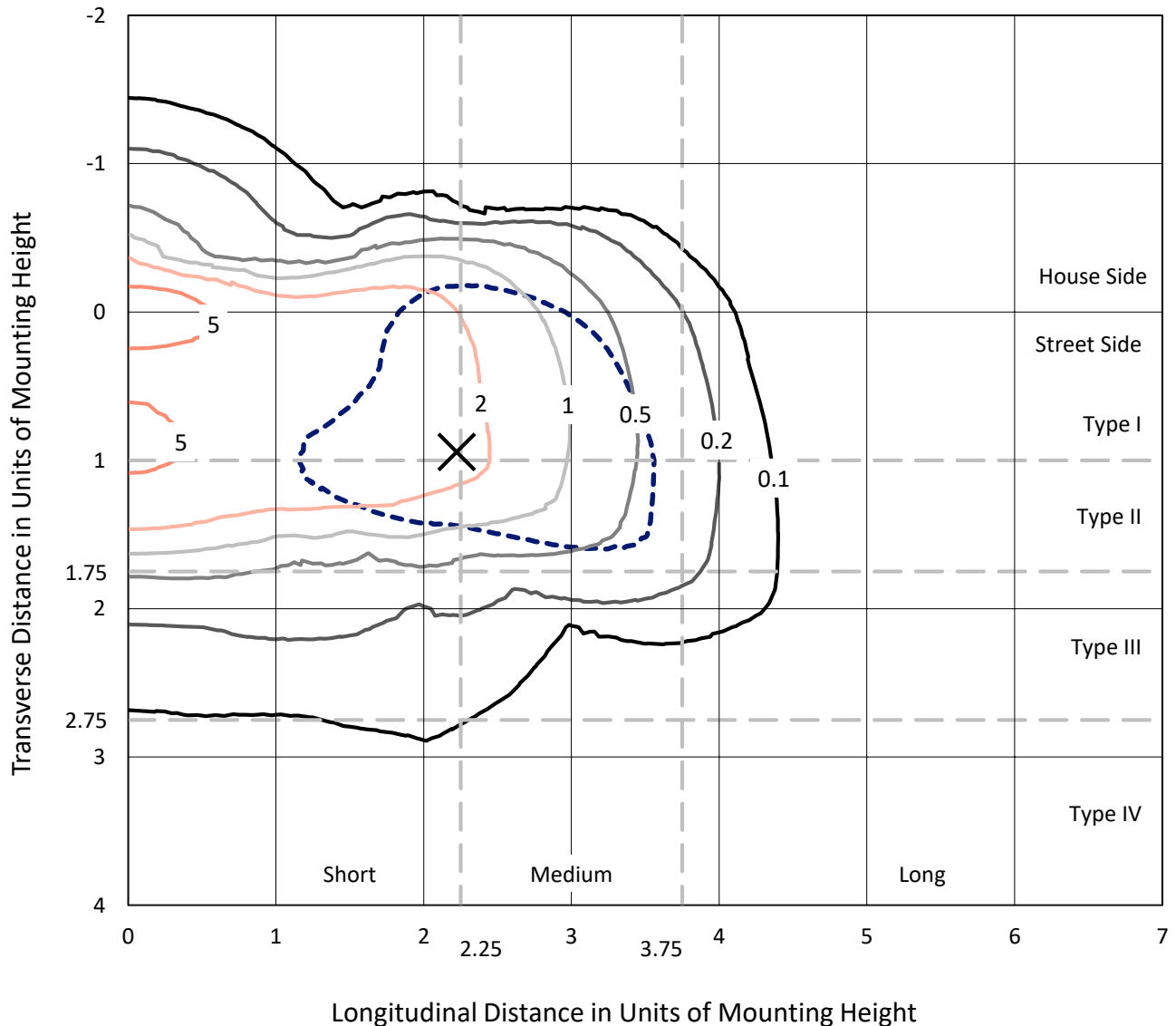
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

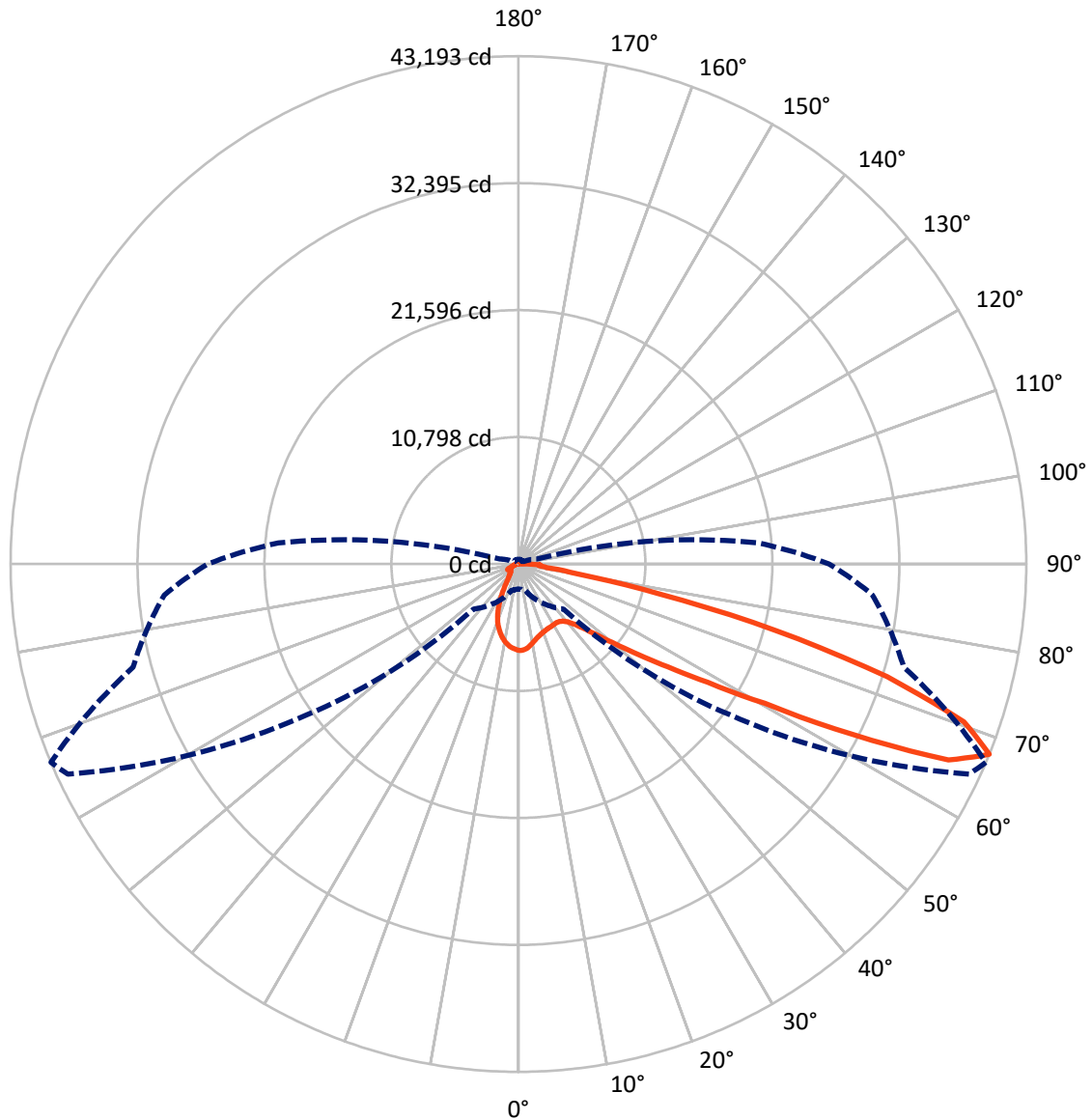
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5648.1	0.0	5648.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	28440.7	0.0	28440.7
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	34088.8	0.0	34088.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.3	1.8
10°-20°	1451.5	4.3
20°-30°	1967.5	5.8
30°-40°	2797.0	8.2
40°-50°	4679.6	13.7
50°-60°	7403.1	21.7
60°-70°	9430.7	27.7
70°-80°	4939.8	14.5
80°-90°	792.3	2.3
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°	34088.8	100.0
0°-180°	34088.8	100.0



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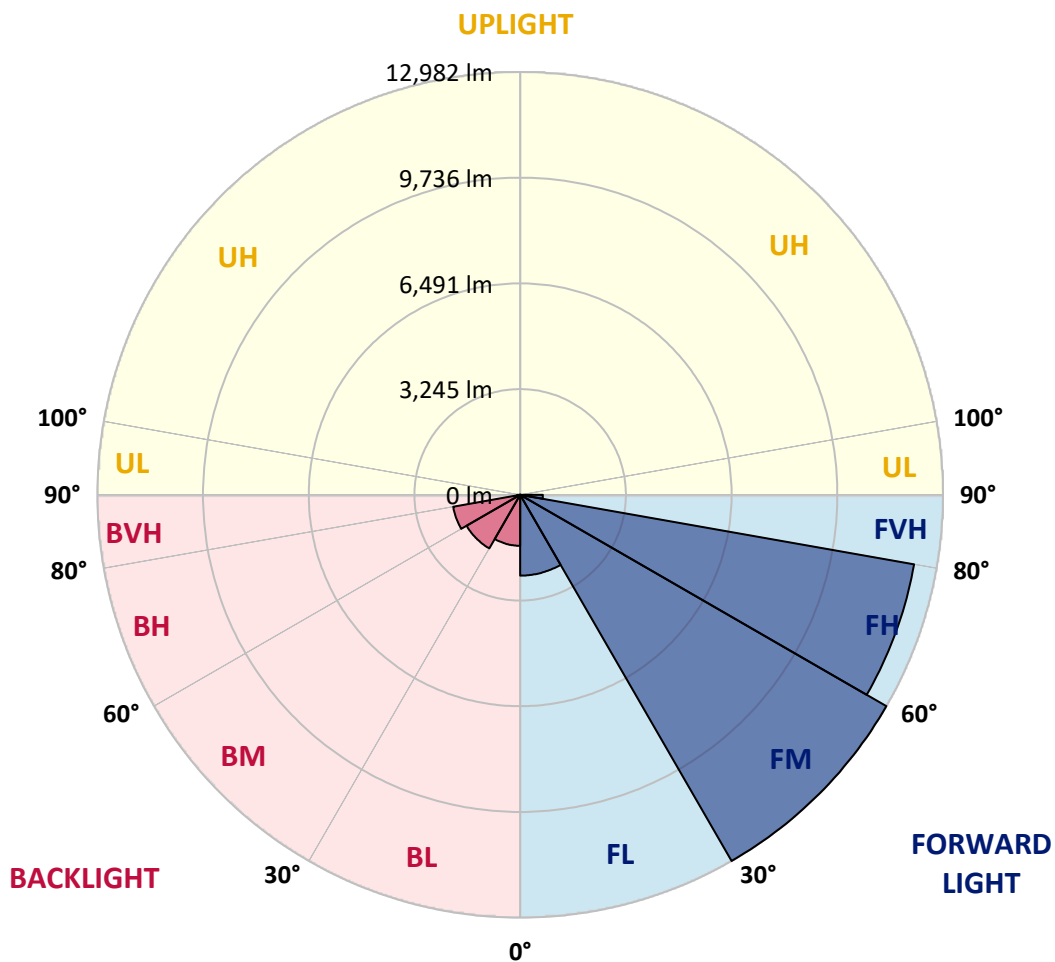
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2480.8	7.3			
FM	(30°-60°)	12981.7	38.1			
FH	(60°-80°)	12281.5	36.0			G5
FVH	(80°-90°)	696.6	2.0			G4/750
BL	(0°-30°)	1565.5	4.6	B3/2500		
BM	(30°-60°)	1898.0	5.6	B2/2500		
BH	(60°-80°)	2089.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	95.6	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9
2.5°	7050.3	7062.0	7099.1	7122.6	7228.5	7273.9	7305.8	7337.7	7342.7	7357.9	7342.7
5°	6310.6	6335.9	6404.8	6482.1	6687.1	6848.6	7018.4	7194.8	7226.8	7341.1	7373.0
7.5°	5737.4	5730.7	5787.9	5880.3	6090.4	6314.0	6611.5	6962.9	7031.8	7289.0	7413.4
10°	5318.8	5313.8	5374.3	5470.1	5670.1	5882.0	6218.2	6699.0	6796.5	7206.6	7452.1
12.5°	5009.5	5011.2	5071.7	5177.6	5381.0	5594.5	5935.8	6443.5	6567.9	7110.8	7492.4
15°	4804.4	4817.9	4866.6	4979.2	5177.6	5391.1	5725.7	6251.8	6391.3	7035.1	7537.8
17.5°	4735.4	4757.3	4774.1	4856.6	5026.3	5239.8	5567.6	6110.6	6258.5	6983.1	7578.1
20°	4799.4	4824.5	4792.6	4821.3	4928.8	5117.1	5443.2	5999.6	6150.9	6924.3	7583.1
22.5°	5073.4	5097.0	5002.7	4920.4	4913.6	5028.0	5340.6	5912.2	6068.6	6880.5	7584.9
25°	5555.9	5571.0	5412.9	5221.3	5034.8	4996.1	5268.4	5851.7	6018.1	6841.8	7553.0
27.5°	6147.5	6159.3	5977.8	5695.4	5320.5	5071.7	5243.1	5816.4	5989.6	6808.2	7499.2
30°	6867.1	6922.5	6678.7	6322.3	5776.1	5295.3	5293.6	5797.9	5957.6	6751.1	7393.2
32.5°	7603.4	7626.9	7458.7	7097.3	6389.7	5688.6	5434.8	5811.4	5949.2	6682.1	7258.8
35°	8349.7	8380.0	8270.8	7979.9	7228.5	6265.3	5710.5	5890.4	6001.3	6658.6	7164.6
37.5°	9316.3	9356.6	9205.3	8869.2	8248.9	7046.9	6169.4	6088.7	6161.0	6725.8	7136.0
40°	10844.4	10825.9	10383.8	9882.8	9365.1	8047.1	6825.0	6424.9	6467.0	6942.7	7223.5
42.5°	12622.9	12577.6	11816.0	11029.4	10592.2	9257.5	7692.5	7008.2	6999.8	7369.6	7531.1
45°	14041.7	14004.7	13318.9	12349.0	11999.3	10635.9	8813.7	7877.3	7815.1	8047.1	8099.2
47.5°	14810.0	14811.6	14416.7	13624.9	13616.4	12387.6	10254.4	9134.7	9027.2	9136.5	9080.9
50°	14541.0	14576.3	14534.3	14282.1	15092.4	14683.8	12135.5	10888.1	10671.2	10778.8	10565.3
52.5°	13239.8	13285.3	13534.0	13920.7	15712.7	17459.3	14899.1	13066.8	12814.6	12775.9	12538.9
55°	10933.5	10988.9	11496.6	12547.3	15196.7	19323.5	19259.7	15843.8	15442.1	15077.3	14976.4
57.5°	7536.1	7628.6	8445.6	10005.6	13527.3	19886.7	24452.4	19802.7	18985.7	17711.5	17735.0
60°	4248.0	4355.6	5318.8	6735.9	10158.5	19274.8	28402.8	25798.9	24074.2	20796.2	20971.0
62.5°	2701.4	2817.4	3548.7	4680.0	6095.5	15980.0	30021.7	34135.3	31944.8	24598.7	24770.1
65°	2187.1	2237.5	2582.0	3863.1	4426.2	9627.3	28792.9	41002.2	40185.3	29425.0	28624.7
67.5°	2134.9	2151.8	2329.9	3242.8	4244.6	5411.3	22966.4	42286.5	43192.7	33931.8	30230.1
70°	2109.7	2168.6	2625.8	3094.8	4064.8	4564.0	13801.3	38766.5	40197.1	35110.2	28093.6
72.5°	1023.8	1020.4	1321.3	2798.9	4579.1	4733.8	7090.6	31366.5	32802.1	30418.5	23085.7
75°	825.4	754.8	721.2	1025.4	4402.7	4888.5	4518.7	21582.9	22621.7	20394.4	14191.4
77.5°	783.4	699.3	640.5	642.2	1861.0	5184.3	3827.8	11945.5	12248.1	9212.1	3888.2
80°	648.9	571.5	529.5	596.8	901.0	4937.2	4138.8	5406.2	4960.8	2262.7	1294.4
82.5°	450.5	410.2	398.4	500.9	721.2	3518.4	4812.8	2904.9	2435.9	1133.0	798.5
85°	287.4	245.4	272.3	364.8	561.5	1623.9	4957.4	2264.4	1800.4	719.4	450.5
87.5°	132.8	107.6	134.5	201.7	366.4	559.8	4717.0	2543.5	1854.2	379.9	284.1
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°	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9	7352.9
2.5°	7356.2	7324.3	7299.1	7252.0	7199.9	7149.5	7104.1	7046.9	7030.1	7015.0	7038.5
5°	7379.8	7347.9	7255.4	7110.8	6951.2	6801.5	6651.8	6524.1	6445.1	6401.4	6426.6
7.5°	7415.1	7369.6	7178.0	6912.5	6624.9	6362.8	6092.1	5875.2	5715.5	5639.9	5661.7
10°	7447.0	7359.6	7046.9	6648.6	6228.2	5838.3	5411.3	5058.3	4796.0	4658.2	4691.8
12.5°	7460.5	7321.0	6863.7	6319.1	5742.4	5170.9	4542.2	4014.4	3637.8	3499.9	3471.4
15°	7473.9	7277.3	6662.0	5944.2	5155.8	4347.1	3466.3	2834.2	2521.6	2452.6	2437.5
17.5°	7477.3	7201.6	6433.3	5537.3	4468.2	3367.1	2370.3	1968.5	1970.2	2081.1	2094.6
20°	7442.0	7088.9	6156.0	5031.4	3644.5	2328.2	1627.2	1558.4	1812.2	2089.6	2123.1
22.5°	7361.3	6939.3	5841.7	4441.3	2701.4	1533.1	1259.2	1334.7	1662.5	2002.1	2040.8
25°	7258.8	6757.8	5470.1	3757.1	1788.6	1096.0	1055.7	1148.2	1370.0	1597.0	1618.8
27.5°	7119.2	6542.6	5053.2	2973.7	1161.6	902.8	929.7	991.9	1082.6	1183.5	1193.6
30°	6939.3	6285.4	4607.8	2168.6	877.5	811.9	850.6	884.2	922.9	980.1	985.1
32.5°	6732.6	6038.3	4150.5	1497.8	778.4	764.9	795.1	811.9	842.2	877.5	880.9
35°	6559.5	5803.0	3676.5	1059.1	736.3	729.6	749.7	756.5	785.0	823.7	827.1
37.5°	6460.2	5611.3	3187.2	854.0	707.7	697.7	709.4	709.4	749.7	806.9	815.3
40°	6467.0	5505.4	2698.0	771.6	684.1	670.7	672.4	672.4	724.6	786.8	791.8
42.5°	6650.2	5532.3	2264.4	739.7	665.7	650.6	642.2	647.2	690.9	731.2	734.6
45°	7080.6	5722.3	1857.6	719.4	647.2	642.2	623.7	622.0	638.8	657.2	657.2
47.5°	7786.6	6097.1	1581.9	706.0	632.1	630.3	608.6	586.7	585.0	591.8	591.8
50°	8934.8	6742.7	1396.9	690.9	622.0	608.6	583.3	549.7	538.0	543.0	543.0
52.5°	10656.1	7894.2	1326.4	670.7	600.2	578.3	549.7	516.1	506.0	507.7	507.7
55°	12913.7	9662.6	1316.2	647.2	576.6	541.3	517.7	492.6	480.8	484.2	484.2
57.5°	15672.3	12108.6	1496.2	610.2	544.6	504.3	490.9	474.0	465.6	470.7	469.0
60°	19026.1	15309.3	2219.0	571.5	512.7	470.7	470.7	457.3	450.5	455.5	453.9
62.5°	22889.0	18985.7	3120.0	543.0	479.0	443.8	450.5	443.8	437.1	440.5	438.7
65°	26315.0	21381.2	2921.6	521.1	445.5	418.6	430.4	427.0	422.0	425.3	423.6
67.5°	26414.2	20493.6	1640.7	497.6	413.6	393.3	410.2	408.5	405.1	408.5	406.8
70°	23573.3	17304.6	924.5	453.9	379.9	363.1	386.7	384.9	381.6	388.3	386.7
72.5°	18886.5	12557.3	675.8	400.1	346.3	331.1	358.0	356.4	356.4	366.4	361.4
75°	10867.9	6461.9	539.6	342.9	311.0	299.2	322.7	324.5	327.8	341.3	331.1
77.5°	3098.1	2013.9	440.5	290.8	267.3	262.3	285.8	289.2	290.8	306.0	292.5
80°	1151.5	927.9	363.1	243.8	218.5	220.2	242.0	247.1	248.8	263.9	247.1
82.5°	734.6	611.9	294.2	188.3	171.4	169.8	196.7	203.4	203.4	205.1	195.0
85°	428.6	366.4	221.9	136.2	121.0	116.0	146.3	158.0	152.9	149.7	142.9
87.5°	287.4	252.2	136.2	75.6	65.6	62.2	85.7	94.1	90.7	85.7	80.7
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)