

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: P191093

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191093  
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-05-LED-E1-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 29812.9 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 279  
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

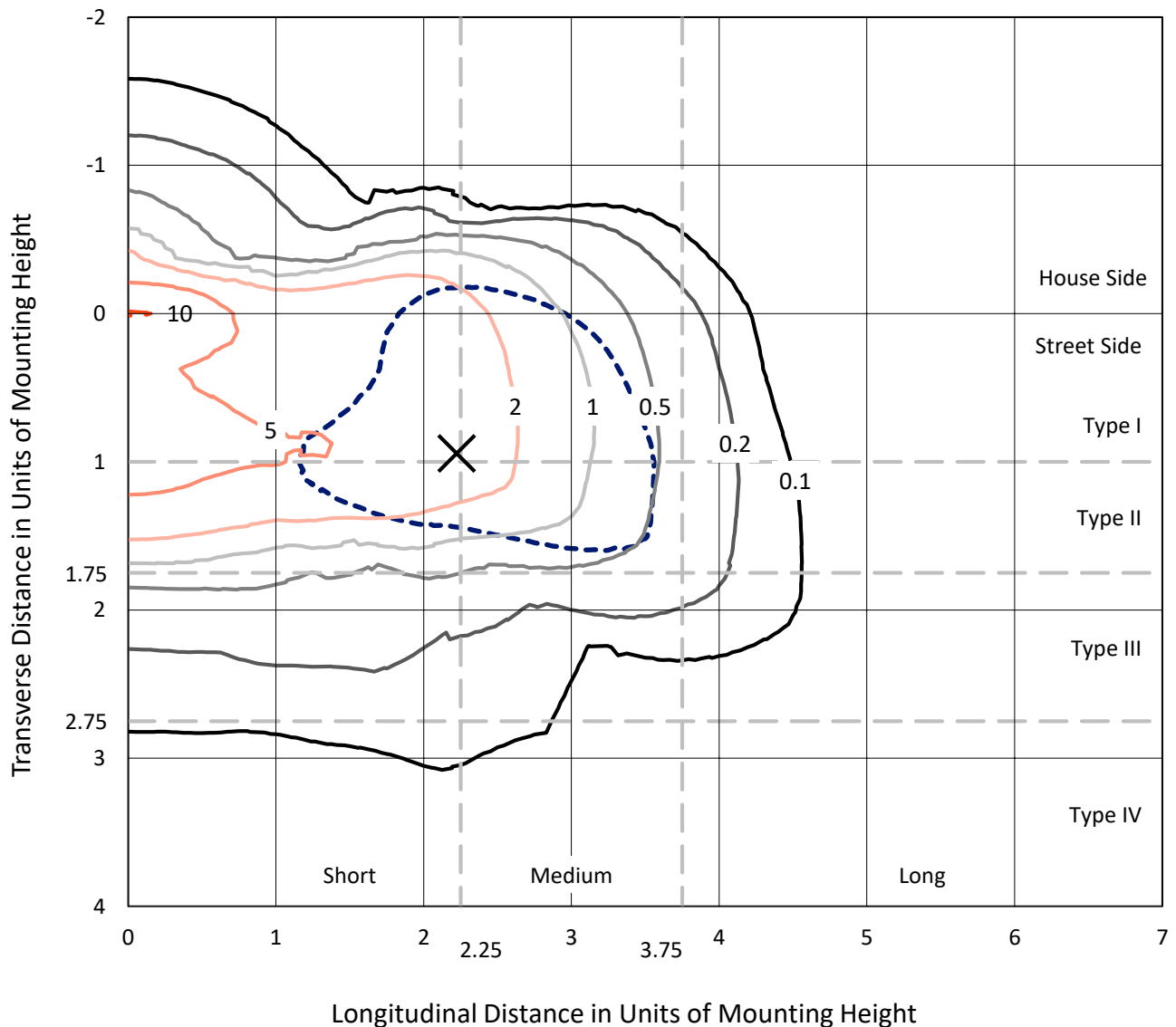


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### Iso-Footcandle Lines of Horizontal Illumination

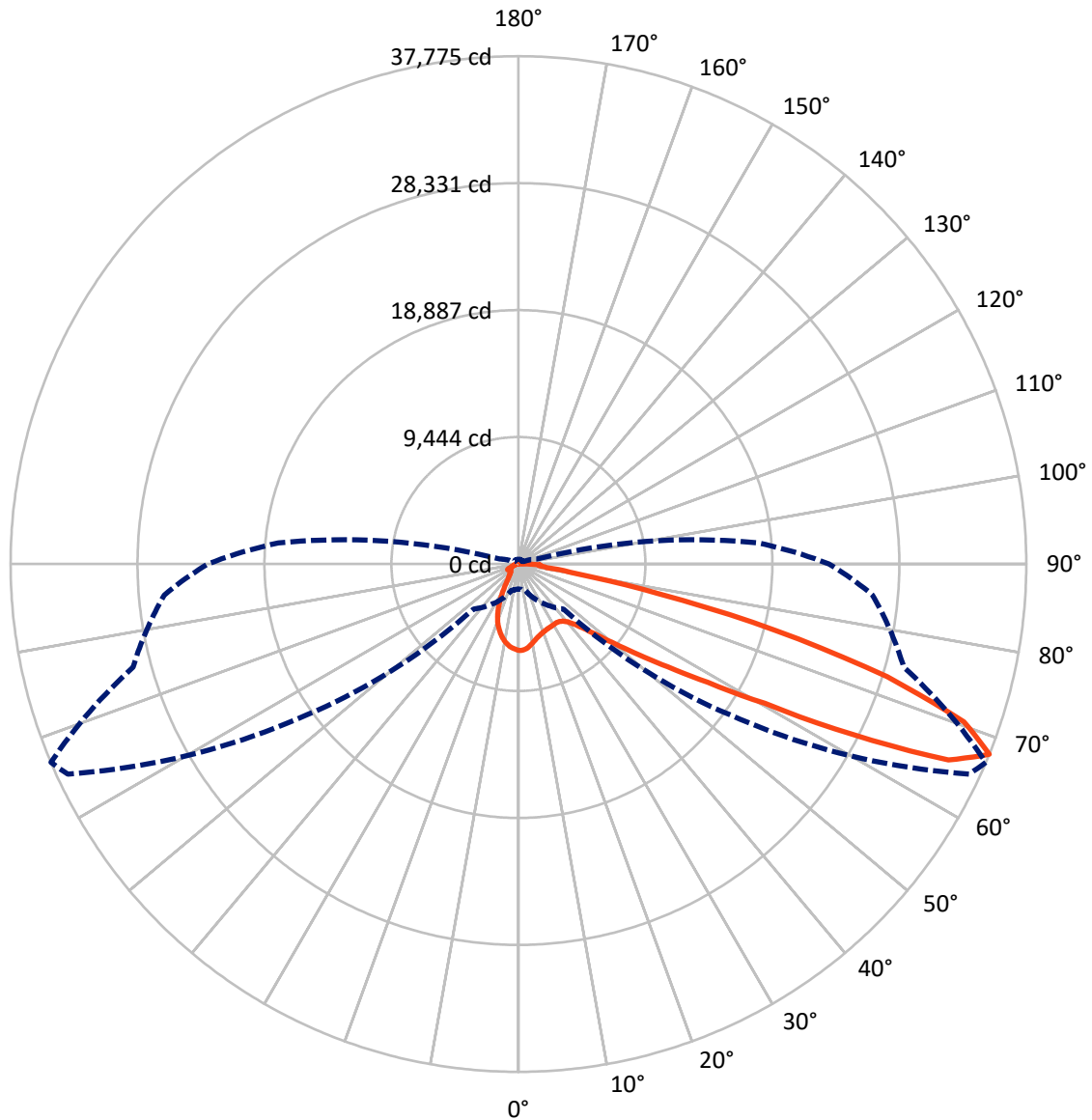
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	4939.7	0.0	4939.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	24873.2	0.0	24873.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	29812.9	0.0	29812.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.6	1.8
10°-20°	1269.4	4.3
20°-30°	1720.7	5.8
30°-40°	2446.2	8.2
40°-50°	4092.6	13.7
50°-60°	6474.4	21.7
60°-70°	8247.8	27.7
70°-80°	4320.2	14.5
80°-90°	692.9	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°	29812.9	100.0
0°-180°	29812.9	100.0

**Coefficient of Utilization**



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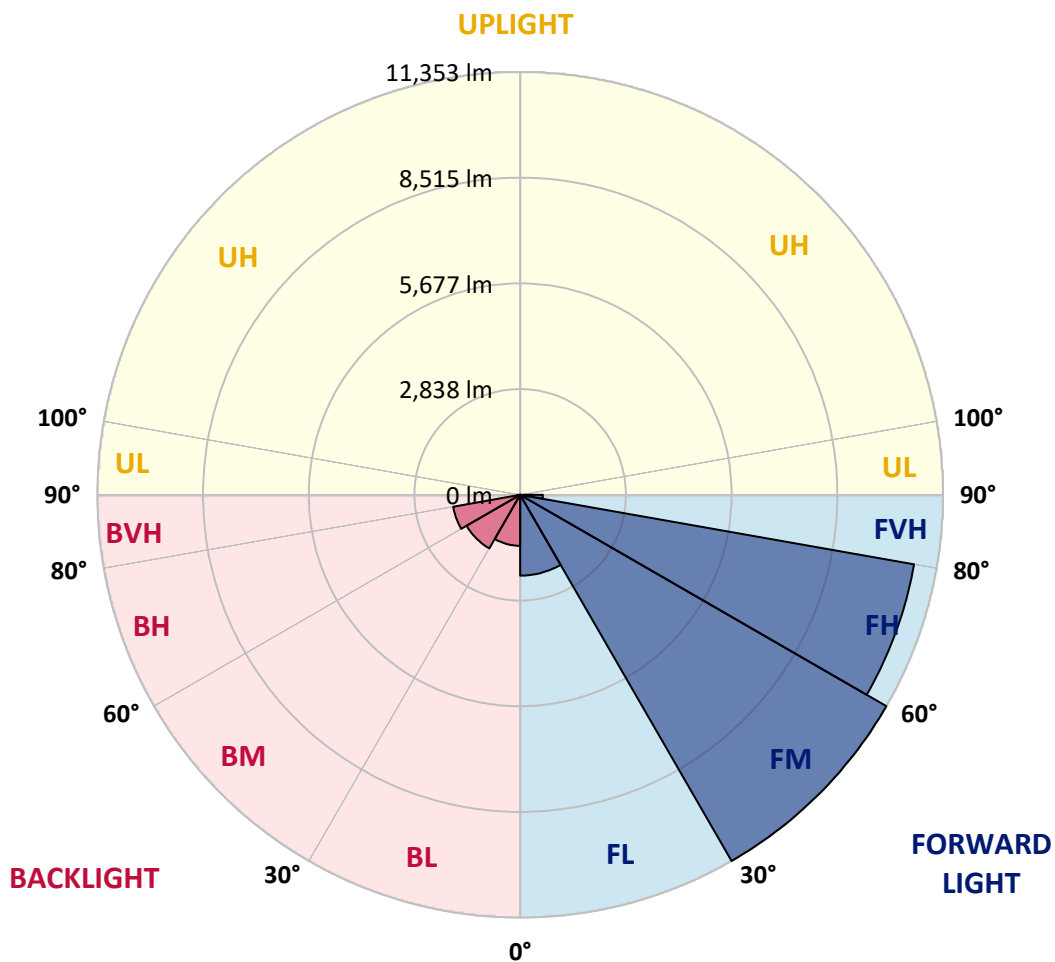
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2169.7	7.3			
FM (30°-60°)	11353.4	38.1			
FH (60°-80°)	10741.0	36.0			G4/12000
FVH (80°-90°)	609.3	2.0			G4/750
BL (0°-30°)	1369.1	4.6	B3/2500		
BM (30°-60°)	1659.9	5.6	B2/2500		
BH (60°-80°)	1827.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	83.6	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6
2.5°	6165.9	6176.3	6208.6	6229.2	6321.7	6361.4	6389.4	6417.4	6421.8	6435.0	6421.8
5°	5519.0	5541.1	5601.4	5669.0	5848.4	5989.5	6138.0	6292.4	6320.3	6420.2	6448.2
7.5°	5017.7	5011.8	5061.9	5142.7	5326.5	5522.0	5782.2	6089.5	6149.8	6374.7	6483.5
10°	4651.7	4647.3	4700.2	4783.9	4959.0	5144.1	5438.2	5858.6	5944.0	6302.7	6517.3
12.5°	4381.1	4382.6	4435.5	4528.2	4706.1	4892.8	5191.2	5635.2	5744.0	6218.8	6552.6
15°	4201.8	4213.5	4256.2	4354.7	4528.2	4714.9	5007.4	5467.6	5589.6	6152.7	6592.3
17.5°	4141.5	4160.6	4175.3	4247.4	4395.8	4582.5	4869.2	5344.1	5473.5	6107.1	6627.6
20°	4197.4	4219.4	4191.4	4216.5	4310.6	4475.2	4760.4	5247.0	5379.4	6055.7	6632.0
22.5°	4437.0	4457.6	4375.3	4303.2	4297.3	4397.3	4670.8	5170.6	5307.4	6017.4	6633.4
25°	4858.9	4872.2	4734.0	4566.4	4403.2	4369.3	4607.6	5117.7	5263.3	5983.6	6605.5
27.5°	5376.4	5386.8	5228.0	4981.0	4653.1	4435.5	4585.5	5086.8	5238.2	5954.2	6558.4
30°	6005.6	6054.2	5841.0	5529.4	5051.5	4631.1	4629.6	5070.7	5210.3	5904.3	6465.9
32.5°	6649.6	6670.3	6523.2	6207.1	5588.2	4975.1	4753.1	5082.4	5202.9	5843.9	6348.2
35°	7302.3	7328.8	7233.3	6979.0	6321.7	5479.3	4994.3	5151.5	5248.6	5823.4	6265.9
37.5°	8147.7	8183.0	8050.7	7756.6	7214.2	6163.0	5395.6	5325.0	5388.2	5882.2	6240.9
40°	9484.1	9467.9	9081.3	8643.2	8190.4	7037.8	5968.9	5619.1	5655.8	6071.8	6317.3
42.5°	11039.6	10999.9	10333.8	9645.8	9263.6	8096.2	6727.5	6129.2	6121.8	6445.3	6586.4
45°	12280.4	12248.1	11648.2	10799.9	10494.1	9301.8	7708.1	6889.3	6834.8	7037.8	7083.3
47.5°	12952.3	12953.7	12608.3	11915.8	11908.5	10833.8	8968.1	7988.9	7894.8	7990.5	7941.9
50°	12717.0	12747.9	12711.2	12490.6	13199.2	12842.0	10613.2	9522.3	9332.7	9426.8	9240.1
52.5°	11579.1	11618.8	11836.5	12174.5	13741.8	15269.3	13030.2	11427.7	11207.1	11173.4	10966.0
55°	9562.0	9610.5	10054.6	10973.4	13290.4	16899.8	16843.8	13856.5	13505.1	13186.0	13097.9
57.5°	6590.8	6671.7	7386.2	8750.5	11830.5	17392.2	21385.2	17318.8	16604.2	15489.8	15510.4
60°	3715.2	3809.3	4651.7	5891.0	8884.3	16857.1	24840.1	22562.8	21054.5	18187.6	18340.5
62.5°	2362.6	2464.0	3103.5	4092.9	5330.9	13975.6	26256.0	29853.5	27937.8	21513.2	21663.1
65°	1912.7	1956.8	2258.2	3378.5	3870.9	8419.7	25181.3	35859.1	35144.6	25734.1	25034.3
67.5°	1867.1	1881.8	2037.7	2835.9	3712.2	4732.5	20085.6	36982.3	37774.8	29675.6	26438.3
70°	1845.1	1896.6	2296.4	2706.6	3554.9	3991.6	12070.2	33903.8	35154.9	30706.1	24569.6
72.5°	895.4	892.4	1155.5	2447.8	4004.8	4140.0	6201.2	27432.1	28687.6	26602.9	20190.0
75°	721.9	660.1	630.8	896.8	3850.4	4275.3	3951.9	18875.6	19784.2	17836.2	12411.3
77.5°	685.1	611.6	560.2	561.6	1627.5	4534.0	3347.6	10447.1	10711.7	8056.6	3400.5
80°	567.5	499.8	463.1	521.9	788.0	4317.9	3619.6	4728.1	4338.5	1978.9	1132.0
82.5°	394.0	358.7	348.4	438.1	630.8	3077.0	4209.1	2540.5	2130.3	990.9	698.4
85°	251.4	214.6	238.1	319.1	491.0	1420.2	4335.6	1980.3	1574.5	629.2	394.0
87.5°	116.1	94.1	117.6	176.5	320.5	489.6	4125.4	2224.4	1621.6	332.3	248.5
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°	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6	6430.6
2.5°	6433.5	6405.6	6383.5	6342.4	6296.8	6252.7	6213.0	6163.0	6148.2	6135.0	6155.6
5°	6454.1	6426.2	6345.3	6218.8	6079.2	5948.4	5817.5	5705.8	5636.7	5598.4	5620.5
7.5°	6485.0	6445.3	6277.6	6045.3	5794.0	5564.6	5327.9	5138.3	4998.6	4932.5	4951.6
10°	6512.9	6436.4	6163.0	5814.6	5447.0	5106.0	4732.5	4423.8	4194.4	4073.9	4103.3
12.5°	6524.7	6402.6	6002.8	5526.4	5022.2	4522.3	3972.4	3510.8	3181.5	3060.9	3035.9
15°	6536.5	6364.4	5826.3	5198.5	4509.1	3801.9	3031.5	2478.7	2205.3	2145.0	2131.7
17.5°	6539.3	6298.2	5626.3	4842.8	3907.8	2944.8	2072.9	1721.6	1723.1	1820.0	1831.8
20°	6508.5	6199.7	5383.8	4400.2	3187.3	2036.2	1423.1	1362.9	1584.9	1827.4	1856.9
22.5°	6437.9	6068.9	5108.9	3884.2	2362.6	1340.8	1101.2	1167.3	1454.0	1751.0	1784.8
25°	6348.2	5910.1	4783.9	3285.8	1564.3	958.6	923.3	1004.1	1198.2	1396.6	1415.8
27.5°	6226.2	5722.0	4419.4	2600.8	1015.9	789.5	813.0	867.4	946.8	1035.0	1043.8
30°	6068.9	5497.0	4029.8	1896.6	767.4	710.1	743.9	773.4	807.1	857.1	861.5
32.5°	5888.1	5280.9	3629.8	1309.9	680.7	668.9	695.4	710.1	736.5	767.4	770.4
35°	5736.6	5075.1	3215.2	926.2	643.9	638.0	655.7	661.5	686.6	720.4	723.3
37.5°	5649.9	4907.5	2787.4	746.9	619.0	610.1	620.4	620.4	655.7	705.7	713.0
40°	5655.8	4814.8	2359.6	674.8	598.3	586.6	588.1	588.1	633.6	688.0	692.4
42.5°	5816.0	4838.4	1980.3	646.9	582.2	569.0	561.6	566.0	604.3	639.5	642.5
45°	6192.4	5004.5	1624.5	629.2	566.0	561.6	545.4	544.0	558.6	574.8	574.8
47.5°	6809.9	5332.3	1383.4	617.5	552.8	551.3	532.2	513.1	511.6	517.5	517.5
50°	7814.0	5896.9	1221.7	604.3	544.0	532.2	510.1	480.8	470.5	474.9	474.9
52.5°	9319.5	6904.0	1159.9	586.6	524.9	505.7	480.8	451.3	442.5	444.0	444.0
55°	11293.9	8450.6	1151.1	566.0	504.3	473.4	452.9	430.8	420.4	423.4	423.4
57.5°	13706.5	10589.7	1308.5	533.7	476.4	441.1	429.3	414.6	407.2	411.6	410.2
60°	16639.5	13388.9	1940.6	499.8	448.4	411.6	411.6	399.9	394.0	398.4	396.9
62.5°	20017.9	16604.2	2728.6	474.9	419.0	388.1	394.0	388.1	382.3	385.1	383.7
65°	23014.1	18699.2	2555.1	455.7	389.6	366.1	376.3	373.4	369.0	371.9	370.5
67.5°	23100.9	17922.9	1434.9	435.2	361.6	344.0	358.7	357.2	354.4	357.2	355.8
70°	20616.3	15134.0	808.6	396.9	332.3	317.5	338.2	336.7	333.7	339.6	338.2
72.5°	16517.5	10982.2	591.1	350.0	302.9	289.6	313.1	311.7	311.7	320.5	316.1
75°	9504.7	5651.4	471.9	299.9	272.0	261.7	282.2	283.8	286.7	298.5	289.6
77.5°	2709.5	1761.3	385.1	254.3	233.7	229.3	249.9	252.9	254.3	267.6	255.8
80°	1007.1	811.5	317.5	213.2	191.1	192.6	211.8	216.1	217.6	230.8	216.1
82.5°	642.5	535.1	257.3	164.7	150.0	148.5	172.1	177.9	177.9	179.3	170.5
85°	374.9	320.5	194.1	119.1	105.9	101.5	127.9	138.2	133.8	130.8	125.0
87.5°	251.4	220.5	119.1	66.2	57.4	54.4	75.0	82.3	79.4	75.0	70.6
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)