

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: P191867

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-SL2-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48351 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 575  
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

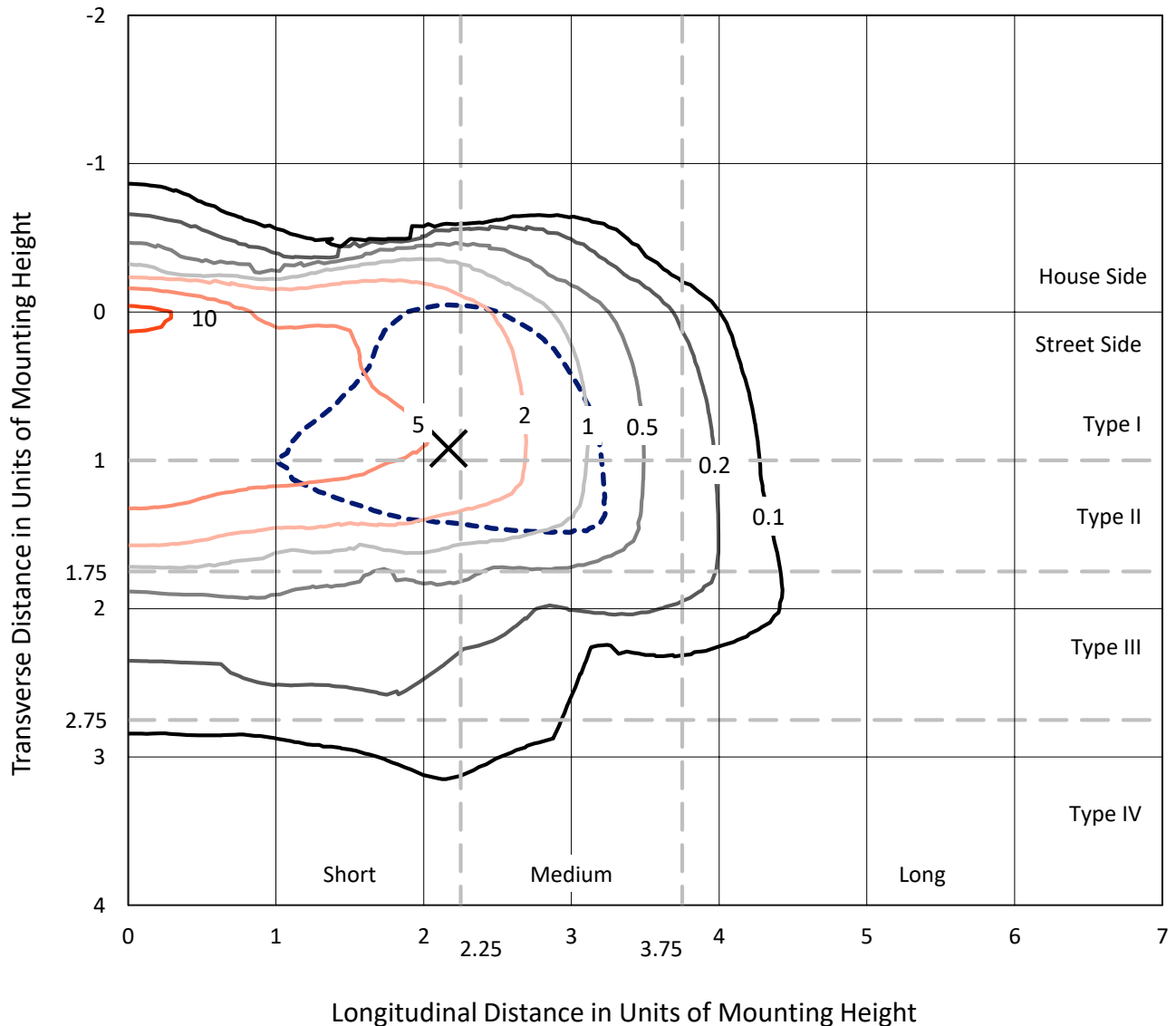


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

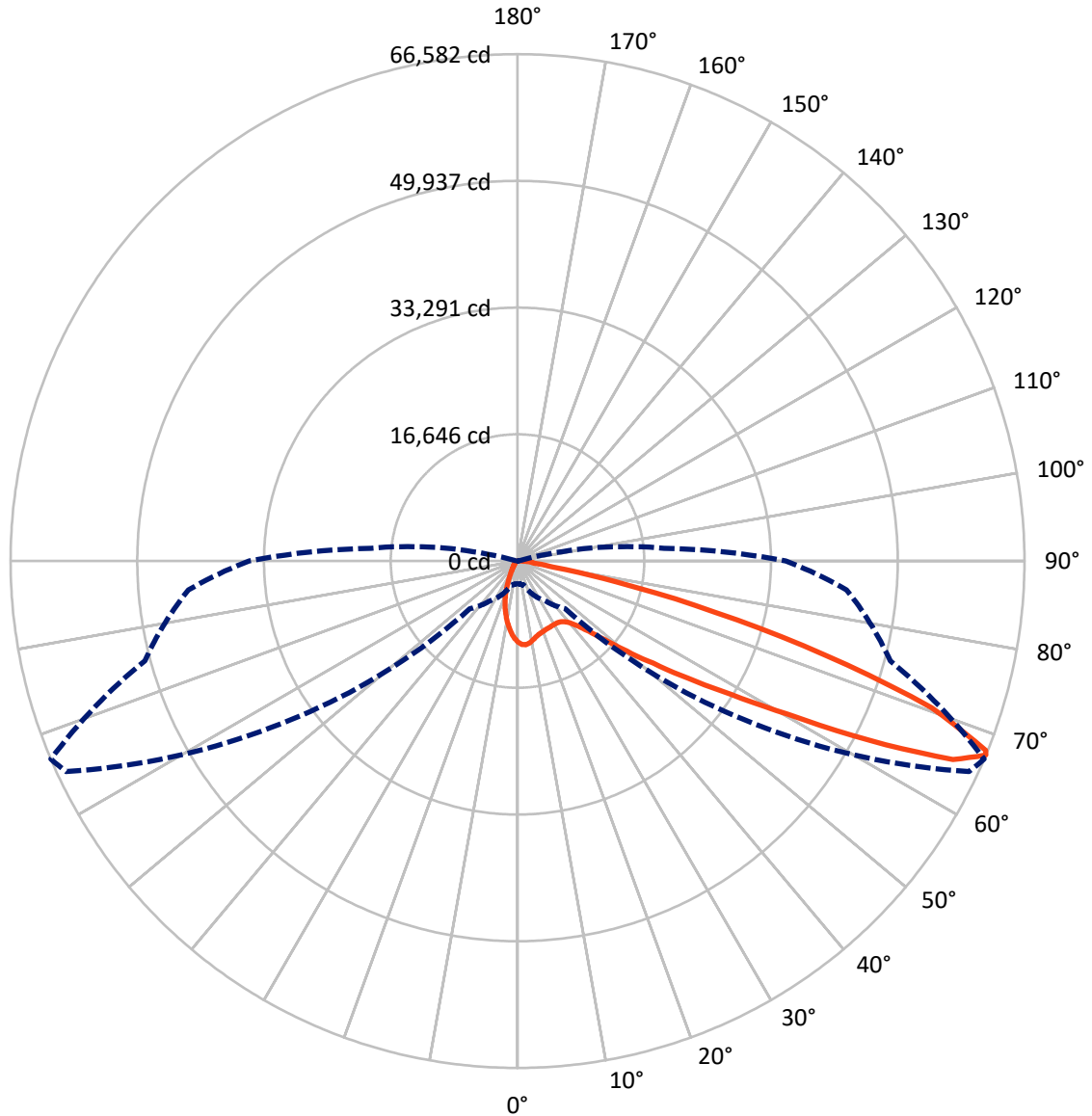


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5020.3	0.0	5020.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	43330.7	0.0	43330.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	48351.0	0.0	48351.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	867.6	1.8
10°-20°	1846.7	3.8
20°-30°	2684.9	5.6
30°-40°	4188.6	8.7
40°-50°	7419.8	15.3
50°-60°	11741.2	24.3
60°-70°	13447.9	27.8
70°-80°	5578.1	11.5
80°-90°	576.2	1.2
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°	48351.0	100.0
0°-180°	48351.0	100.0



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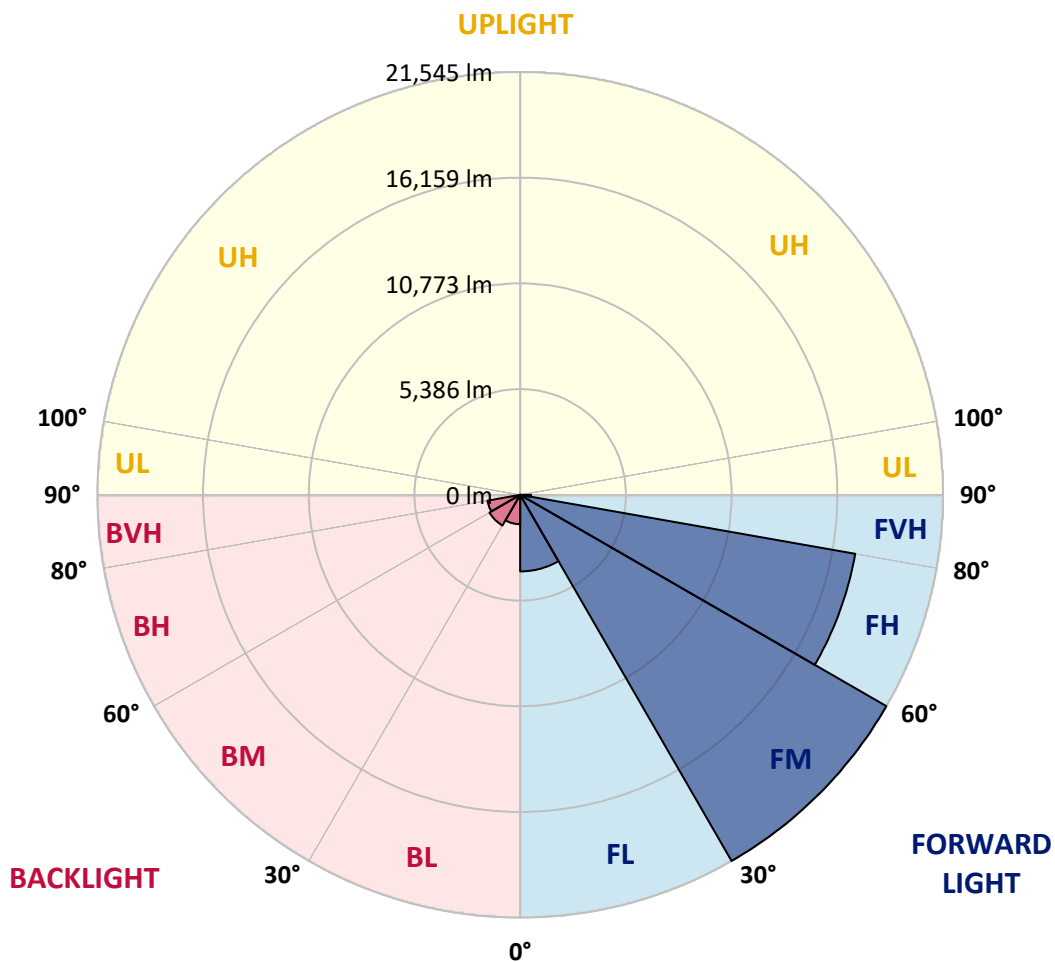
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3901.2	8.1			
FM (30°-60°)	21545.3	44.6			
FH (60°-80°)	17334.0	35.9			G5
FVH (80°-90°)	550.2	1.1			G4/750
BL (0°-30°)	1498.1	3.1	B3/2500		
BM (30°-60°)	1804.3	3.7	B2/2500		
BH (60°-80°)	1692.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	25.9	0.1			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°	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2
2.5°	11024.2	11046.7	11043.9	11060.8	11100.3	11103.1	11063.6	10987.5	10970.6	10871.9	10699.8
5°	10166.8	10231.7	10271.2	10431.9	10612.4	10829.6	10993.1	11052.4	11043.9	10973.4	10713.9
7.5°	9188.2	9253.1	9298.2	9487.2	9726.9	10099.1	10525.0	10874.7	10905.7	10981.9	10702.7
10°	8536.7	8548.0	8610.1	8790.6	9041.6	9422.3	9929.9	10541.9	10635.0	10914.2	10674.5
12.5°	8000.9	8009.4	8091.2	8285.8	8553.7	8937.2	9470.2	10178.1	10321.9	10829.6	10668.8
15°	7620.2	7651.2	7724.5	7927.6	8212.4	8593.2	9140.3	9910.2	10082.2	10798.6	10719.6
17.5°	7493.3	7527.1	7549.7	7696.3	7955.8	8328.1	8889.3	9735.3	9929.9	10815.5	10818.3
20°	7625.8	7651.2	7600.4	7637.1	7797.9	8130.6	8677.8	9585.9	9817.1	10835.2	10945.2
22.5°	8119.4	8130.6	7992.5	7831.7	7803.5	7986.8	8511.4	9467.4	9715.6	10888.8	11094.7
25°	8965.4	8945.7	8720.1	8373.2	8046.0	7961.4	8412.7	9394.1	9664.8	10945.2	11249.8
27.5°	9986.3	10014.5	9704.3	9199.5	8576.2	8130.6	8398.6	9363.1	9642.3	10984.7	11385.2
30°	11227.2	11266.7	10911.4	10276.8	9382.8	8548.0	8528.3	9357.4	9628.2	10959.3	11396.4
32.5°	12493.5	12541.4	12262.2	11607.9	10460.1	9247.4	8821.6	9419.5	9656.4	10871.9	11331.6
35°	13819.0	13886.7	13700.5	13139.3	11921.0	10257.1	9337.7	9608.4	9788.9	10863.4	11266.7
37.5°	15649.3	15711.3	15361.6	14766.6	13689.3	11610.8	10166.8	9963.8	10102.0	10998.8	11283.6
40°	18382.1	18373.6	17471.1	16560.2	15632.4	13331.1	11331.6	10606.8	10677.3	11407.7	11492.3
42.5°	21360.2	21346.1	20012.1	18627.4	17789.8	15449.1	12862.9	11717.9	11670.0	12160.7	12033.8
45°	23655.8	23653.0	22564.4	21004.9	20387.2	17880.1	14842.7	13263.4	13190.1	13384.7	13032.2
47.5°	24634.5	24651.4	24104.3	23007.2	23266.7	21168.4	17338.6	15502.6	15392.7	15313.7	14777.9
50°	23873.0	23906.8	23952.0	23737.6	25379.0	25587.7	20686.2	18658.5	18604.9	18252.3	17414.7
52.5°	21385.6	21557.6	22087.8	22767.5	26112.2	29829.3	25934.6	22578.5	22290.9	21915.8	20993.6
55°	17194.8	17383.7	18390.5	20040.4	25020.8	32615.6	33289.7	27632.3	27152.9	26033.3	24702.1
57.5°	11379.5	11672.8	13133.7	15231.9	21850.9	33064.0	40627.8	34646.2	32976.6	29911.1	28410.7
60°	6269.3	6551.3	8136.3	10037.1	15781.8	30847.4	45563.2	43778.0	40828.1	34245.7	32914.6
62.5°	3860.9	4013.1	5183.5	6951.8	9464.6	24346.8	46584.1	55253.4	51838.1	39826.9	38354.7
65°	3074.0	3138.9	3711.4	5682.7	6785.4	14481.7	43287.3	64001.6	62862.3	46584.1	43225.2
67°	2983.8	3009.2	3279.9	4878.9	6396.2	8878.0	36265.0	65425.8	66582.1	50673.4	43377.5
67.5°	3003.5	3031.7	3288.4	4656.2	6384.9	8158.8	33845.2	64864.6	66325.5	50997.7	42703.5
70°	2896.3	2983.8	3765.0	4653.3	6071.9	6779.8	20268.8	56201.0	57721.1	47385.0	36233.9
72.5°	1026.6	1032.2	1627.3	3765.0	6602.1	6853.1	10178.1	41200.3	42325.6	36248.0	26123.5
75°	609.2	518.9	541.5	1071.7	6308.8	6655.7	5871.7	26326.6	26746.8	20770.8	13229.6
77.5°	420.2	366.6	377.9	473.8	2402.8	6562.6	4664.6	13728.7	13280.3	7284.6	2817.4
80°	239.7	211.5	225.6	414.6	874.3	6122.7	4399.5	5567.1	4746.4	1235.2	778.4
82.5°	126.9	107.2	129.7	341.2	609.2	3815.7	4408.0	2690.5	2132.1	417.4	530.2
85°	45.1	36.7	62.0	234.1	406.1	1170.4	4086.5	2261.8	1776.7	203.1	403.3
87.5°	8.5	8.5	25.4	95.9	163.6	358.2	2416.9	1342.4	899.6	121.3	276.4
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°	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2	10663.2
2.5°	10629.3	10508.1	10344.5	10144.3	9907.4	9698.7	9543.6	9382.8	9349.0	9292.6	9284.1
5°	10558.8	10350.1	9944.0	9478.7	8982.3	8533.9	8170.1	7845.8	7702.0	7577.9	7563.8
7.5°	10454.5	10141.4	9450.5	8700.3	7924.8	7219.7	6621.8	6198.8	5809.6	5623.5	5595.3
10°	10333.2	9884.8	8894.9	7854.3	6782.6	5787.1	4898.7	4154.2	3702.9	3435.0	3401.2
12.5°	10220.4	9633.8	8328.1	6977.2	5553.0	4221.8	3079.7	2369.0	1895.2	1703.4	1680.8
15°	10166.8	9430.8	7797.9	6080.4	4267.0	2687.7	1683.7	1302.9	1147.8	1102.7	1099.9
17.5°	10161.2	9258.7	7278.9	5152.5	2989.4	1562.4	1097.1	1001.2	970.1	958.9	958.9
20°	10158.4	9095.1	6760.0	4190.8	1898.0	1040.7	913.7	891.2	868.6	854.5	854.5
22.5°	10189.4	8948.5	6218.5	3209.4	1195.8	843.2	803.8	781.2	753.0	733.3	730.4
25°	10220.4	8835.7	5665.8	2284.4	865.8	733.3	693.8	662.7	623.3	597.9	595.1
27.5°	10226.0	8694.7	5073.5	1528.5	724.8	640.2	589.4	541.5	496.4	471.0	468.2
30°	10141.4	8457.8	4416.4	1032.2	640.2	555.6	487.9	437.1	394.8	375.1	375.1
32.5°	9975.1	8164.5	3694.5	778.4	569.7	476.6	403.3	355.3	327.1	318.7	315.9
35°	9825.6	7848.6	2952.8	659.9	510.5	403.3	330.0	298.9	282.0	279.2	276.4
37.5°	9738.2	7594.8	2256.2	597.9	454.1	338.4	279.2	256.6	248.2	242.5	245.4
40°	9805.8	7383.3	1666.7	547.1	397.6	282.0	236.9	225.6	217.2	214.3	214.3
42.5°	10102.0	7346.6	1238.1	502.0	344.1	234.1	205.9	197.4	191.8	189.0	191.8
45°	10880.3	7572.2	961.7	459.7	290.5	197.4	174.9	172.0	169.2	169.2	169.2
47.5°	12050.7	8037.6	800.9	411.7	242.5	169.2	152.3	149.5	146.7	149.5	149.5
50°	14033.3	8889.3	716.3	363.8	200.2	143.8	129.7	129.7	129.7	129.7	132.5
52.5°	17048.1	10564.5	659.9	315.9	163.6	121.3	110.0	110.0	112.8	112.8	115.6
55°	20407.0	12786.8	609.2	267.9	138.2	101.5	90.2	93.1	95.9	98.7	98.7
57.5°	24050.7	15248.8	566.9	220.0	118.4	81.8	76.1	79.0	81.8	87.4	87.4
60°	28447.4	17913.9	504.8	172.0	98.7	64.9	59.2	64.9	73.3	79.0	81.8
62.5°	33275.6	20491.6	425.9	135.4	81.8	50.8	47.9	59.2	70.5	76.1	79.0
65°	36575.2	21301.0	327.1	110.0	62.0	36.7	39.5	53.6	67.7	76.1	76.1
67°	35238.4	19312.7	267.9	93.1	50.8	28.2	36.7	53.6	67.7	73.3	76.1
67.5°	34310.6	18534.4	256.6	90.2	47.9	28.2	36.7	53.6	67.7	76.1	76.1
70°	27917.2	13923.3	214.3	67.7	39.5	25.4	31.0	50.8	64.9	73.3	73.3
72.5°	19397.3	8584.7	191.8	47.9	33.8	22.6	28.2	47.9	62.0	70.5	73.3
75°	9222.1	3107.9	163.6	36.7	31.0	19.7	25.4	47.9	62.0	70.5	70.5
77.5°	1881.1	722.0	132.5	31.0	25.4	19.7	22.6	45.1	59.2	67.7	67.7
80°	617.6	279.2	98.7	28.2	25.4	19.7	22.6	42.3	59.2	64.9	67.7
82.5°	445.6	141.0	64.9	28.2	25.4	19.7	19.7	42.3	56.4	64.9	64.9
85°	341.2	98.7	42.3	28.2	25.4	19.7	19.7	39.5	53.6	62.0	62.0
87.5°	225.6	39.5	33.8	28.2	25.4	19.7	19.7	39.5	50.8	59.2	62.0
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)