

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: P191064

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191064  
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-06-LED-E1-SL2-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 33090.4 lumens  
Efficiency: N/A  
Efficacy: 86.6 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): 382  
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

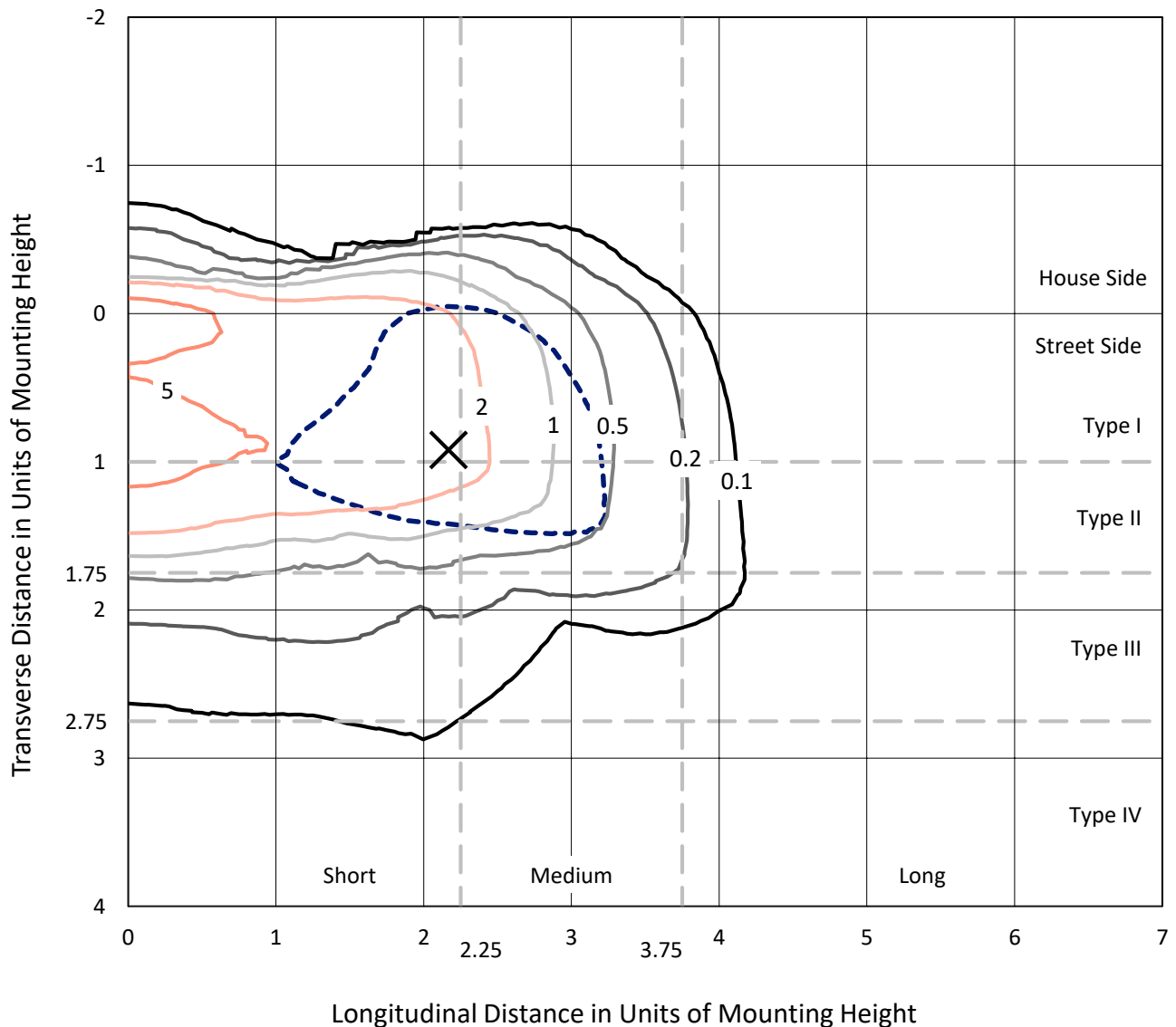


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

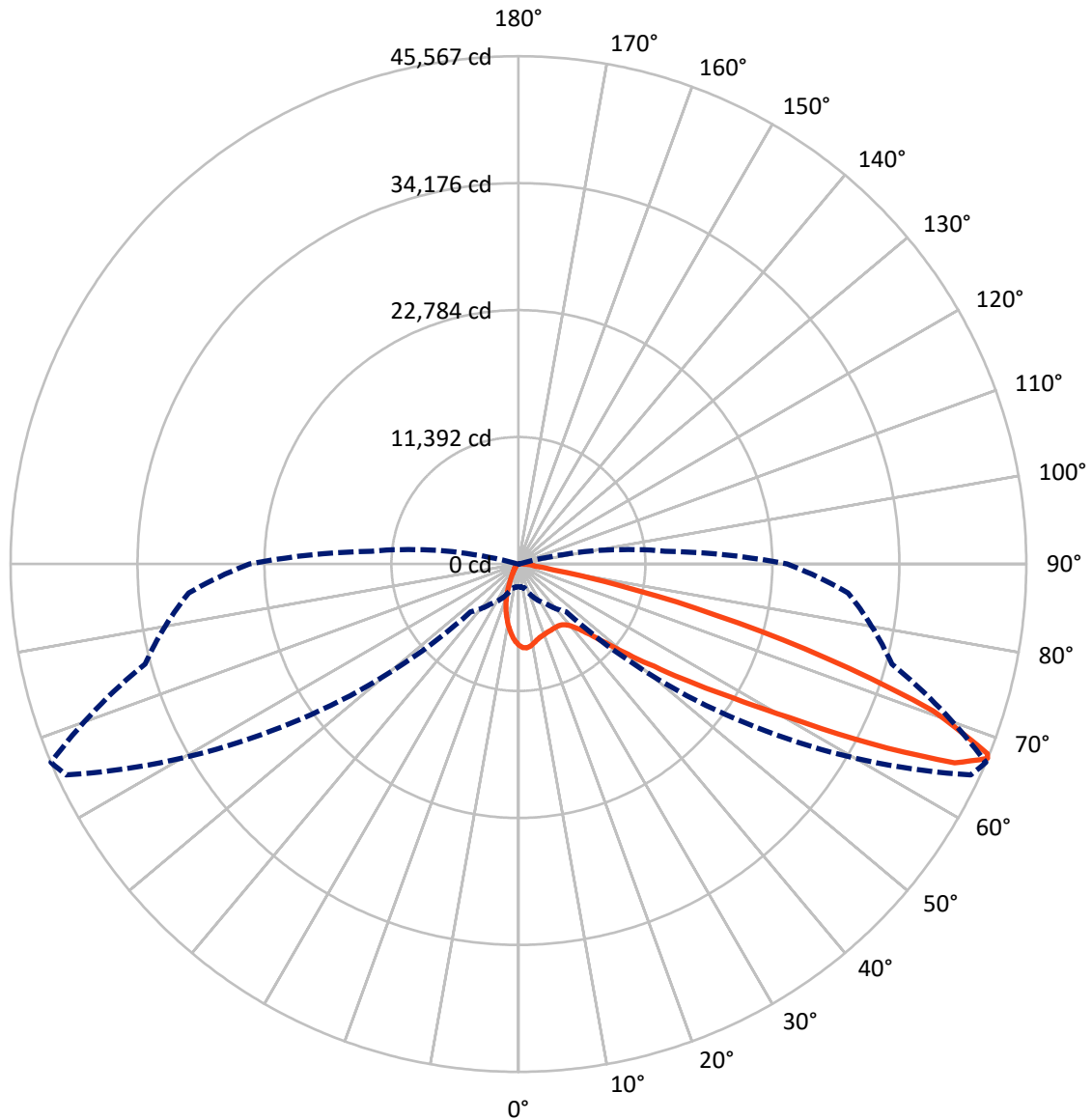


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - Semi-Cutoff

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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	3435.8	0.0	3435.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	29654.6	0.0	29654.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	33090.4	0.0	33090.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	593.8	1.8
10°-20°	1263.8	3.8
20°-30°	1837.5	5.6
30°-40°	2866.6	8.7
40°-50°	5078.0	15.3
50°-60°	8035.4	24.3
60°-70°	9203.5	27.8
70°-80°	3817.5	11.5
80°-90°	394.3	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°	33090.4	100.0
0°-180°	33090.4	100.0

**Coefficient of Utilization**



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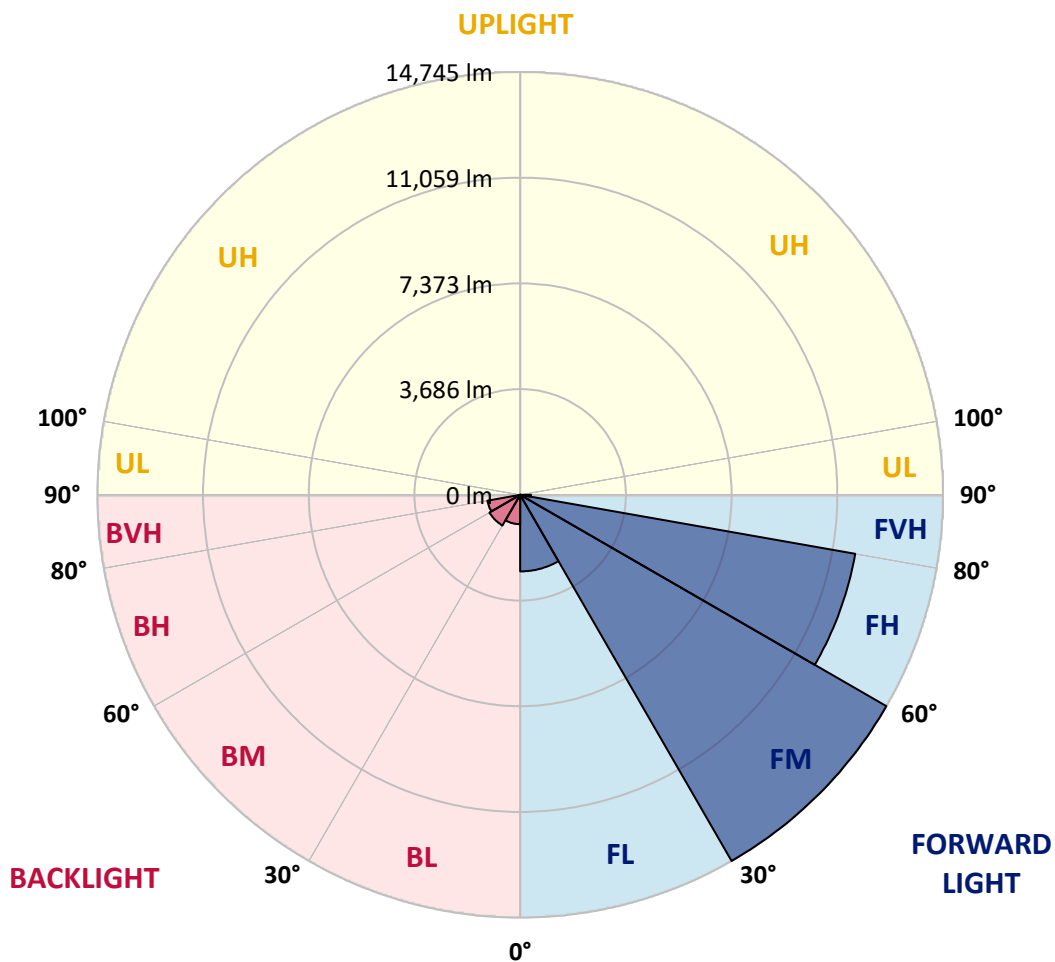
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2669.9	8.1			
FM (30°-60°)	14745.2	44.6			
FH (60°-80°)	11863.0	35.9			G4/12000
FVH (80°-90°)	376.6	1.1			G3/500
BL (0°-30°)	1025.2	3.1	B3/2500		
BM (30°-60°)	1234.8	3.7	B2/2500		
BH (60°-80°)	1158.0	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.7	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6
2.5°	7544.7	7560.1	7558.2	7569.8	7596.8	7598.8	7571.8	7519.6	7508.0	7440.5	7322.8
5°	6958.0	7002.4	7029.4	7139.4	7263.0	7411.5	7523.5	7564.0	7558.2	7510.0	7332.4
7.5°	6288.2	6332.6	6363.5	6492.8	6656.9	6911.7	7203.1	7442.4	7463.7	7515.7	7324.6
10°	5842.4	5850.1	5892.6	6016.1	6187.8	6448.4	6795.9	7214.7	7278.4	7469.5	7305.4
12.5°	5475.7	5481.5	5537.4	5670.6	5853.9	6116.4	6481.2	6965.7	7064.1	7411.5	7301.5
15°	5215.1	5236.3	5286.5	5425.4	5620.4	5880.9	6255.4	6782.4	6900.1	7390.3	7336.3
17.5°	5128.3	5151.4	5166.8	5267.2	5444.8	5699.6	6083.6	6662.7	6795.9	7401.9	7403.8
20°	5219.0	5236.3	5201.6	5226.7	5336.7	5564.4	5938.8	6560.4	6718.6	7415.4	7490.7
22.5°	5556.7	5564.4	5469.8	5359.9	5340.5	5466.0	5825.0	6479.3	6649.2	7452.1	7593.0
25°	6135.8	6122.3	5967.8	5730.5	5506.5	5448.6	5757.5	6429.1	6614.4	7490.7	7699.1
27.5°	6834.4	6853.8	6641.4	6296.0	5869.4	5564.4	5747.8	6407.9	6599.0	7517.7	7791.7
30°	7683.7	7710.7	7467.5	7033.2	6421.4	5850.1	5836.5	6404.0	6589.3	7500.3	7799.5
32.5°	8550.3	8583.1	8392.0	7944.2	7158.7	6328.8	6037.4	6446.5	6608.6	7440.5	7755.1
35°	9457.4	9503.7	9376.4	8992.2	8158.4	7019.7	6390.5	6575.8	6699.3	7434.7	7710.7
37.5°	10710.1	10752.5	10513.2	10105.9	9368.6	7946.2	6958.0	6819.0	6913.6	7527.4	7722.3
40°	12580.4	12574.5	11956.9	11333.5	10698.4	9123.5	7755.1	7259.1	7307.3	7807.2	7865.1
42.5°	14618.5	14608.9	13695.9	12748.2	12175.0	10573.0	8803.1	8019.5	7986.7	8322.5	8235.7
45°	16189.5	16187.7	15442.7	14375.3	13952.6	12236.7	10158.0	9077.2	9027.0	9160.2	8918.9
47.5°	16859.4	16870.9	16496.4	15745.7	15923.3	14487.2	11866.1	10609.6	10534.4	10480.3	10113.6
50°	16338.2	16361.4	16392.3	16245.6	17368.9	17511.7	14157.2	12769.5	12732.8	12491.6	11918.3
52.5°	14635.9	14753.6	15116.5	15581.6	17870.6	20414.5	17749.1	15452.3	15255.4	14998.7	14367.5
55°	11767.7	11897.0	12586.1	13715.2	17123.7	22321.5	22782.8	18911.0	18582.9	17816.6	16905.6
57.5°	7787.9	7988.6	8988.5	10424.4	14954.3	22628.4	27804.8	23711.1	22568.5	20470.5	19443.7
60°	4290.6	4483.6	5568.3	6869.2	10800.7	21111.2	31182.5	29960.7	27941.9	23437.0	22526.1
62.5°	2642.3	2746.5	3547.5	4757.6	6477.3	16662.4	31881.2	37814.3	35477.0	27256.7	26249.2
65°	2103.8	2148.2	2540.0	3889.2	4643.8	9911.0	29624.9	43801.4	43021.6	31881.2	29582.4
67°	2042.0	2059.4	2244.7	3339.0	4377.4	6075.9	24818.9	44776.1	45567.4	34679.8	29686.6
67.5°	2055.5	2074.9	2250.5	3186.6	4369.7	5583.8	23163.0	44392.0	45391.8	34901.8	29225.4
70°	1982.2	2042.0	2576.7	3184.7	4155.4	4639.9	13871.5	38462.7	39503.1	32429.3	24797.8
72.5°	702.6	706.4	1113.7	2576.7	4518.4	4690.1	6965.7	28196.6	28966.7	24807.4	17878.4
75°	416.9	355.2	370.6	733.5	4317.6	4555.0	4018.5	18017.3	18305.0	14215.1	9054.0
77.5°	287.6	250.9	258.6	324.3	1644.4	4491.3	3192.3	9395.7	9088.8	4985.5	1928.2
80°	164.1	144.7	154.4	283.8	598.3	4190.2	3011.0	3810.0	3248.4	845.4	532.8
82.5°	86.8	73.3	88.8	233.5	416.9	2611.4	3016.7	1841.3	1459.1	285.6	362.8
85°	30.9	25.1	42.5	160.2	277.9	801.0	2796.6	1547.9	1216.0	138.9	276.0
87.5°	5.8	5.8	17.4	65.7	111.9	245.1	1654.1	918.7	615.7	83.0	189.1
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°	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6	7297.6
2.5°	7274.5	7191.5	7079.5	6942.6	6780.4	6637.5	6531.4	6421.4	6398.3	6359.7	6353.9
5°	7226.2	7083.4	6805.5	6487.0	6147.3	5840.4	5591.4	5369.5	5271.1	5186.2	5176.5
7.5°	7154.8	6940.6	6467.7	5954.3	5423.6	4941.1	4531.9	4242.4	3976.0	3848.5	3829.3
10°	7071.9	6765.0	6087.5	5375.3	4641.8	3960.6	3352.5	2843.0	2534.2	2350.8	2327.7
12.5°	6994.6	6593.2	5699.6	4775.0	3800.4	2889.3	2107.7	1621.3	1297.0	1165.8	1150.3
15°	6958.0	6454.2	5336.7	4161.3	2920.2	1839.4	1152.3	891.7	785.5	754.6	752.7
17.5°	6954.1	6336.5	4981.6	3526.3	2045.9	1069.3	750.8	685.2	664.0	656.2	656.2
20°	6952.2	6224.6	4626.4	2868.1	1298.9	712.2	625.3	609.9	594.4	584.8	584.8
22.5°	6973.4	6124.2	4255.9	2196.5	818.4	577.0	550.0	534.6	515.4	501.9	499.9
25°	6994.6	6047.0	3877.5	1563.4	592.5	501.9	474.8	453.6	426.6	409.2	407.2
27.5°	6998.5	5950.5	3472.2	1046.1	496.0	438.1	403.3	370.6	339.7	322.3	320.4
30°	6940.6	5788.4	3022.5	706.4	438.1	380.2	333.9	299.2	270.2	256.7	256.7
32.5°	6826.8	5587.6	2528.4	532.8	389.8	326.2	276.0	243.2	223.9	218.1	216.1
35°	6724.5	5371.4	2020.8	451.6	349.3	276.0	225.9	204.6	193.0	191.1	189.1
37.5°	6664.6	5197.7	1544.0	409.2	310.8	231.6	191.1	175.6	169.8	166.0	168.0
40°	6710.9	5053.0	1140.7	374.4	272.1	193.0	162.1	154.4	148.6	146.7	146.7
42.5°	6913.6	5027.9	847.3	343.5	235.5	160.2	140.9	135.1	131.2	129.3	131.2
45°	7446.3	5182.3	658.2	314.6	198.8	135.1	119.7	117.7	115.8	115.8	115.8
47.5°	8247.2	5500.7	548.1	281.8	166.0	115.8	104.2	102.3	100.4	102.3	102.3
50°	9604.1	6083.6	490.2	249.0	137.1	98.4	88.8	88.8	88.8	88.8	90.7
52.5°	11667.4	7230.1	451.6	216.1	111.9	83.0	75.3	75.3	77.2	77.2	79.2
55°	13966.1	8751.0	416.9	183.3	94.6	69.5	61.8	63.7	65.7	67.5	67.5
57.5°	16459.8	10435.9	387.9	150.6	81.0	56.0	52.1	54.0	56.0	59.8	59.8
60°	19468.8	12259.9	345.5	117.7	67.5	44.4	40.5	44.4	50.2	54.0	56.0
62.5°	22773.1	14024.0	291.4	92.7	56.0	34.8	32.8	40.5	48.3	52.1	54.0
65°	25031.3	14578.0	223.9	75.3	42.5	25.1	27.0	36.6	46.3	52.1	52.1
67°	24116.5	13217.2	183.3	63.7	34.8	19.3	25.1	36.6	46.3	50.2	52.1
67.5°	23481.4	12684.5	175.6	61.8	32.8	19.3	25.1	36.6	46.3	52.1	52.1
70°	19106.0	9528.9	146.7	46.3	27.0	17.4	21.3	34.8	44.4	50.2	50.2
72.5°	13275.1	5875.2	131.2	32.8	23.1	15.4	19.3	32.8	42.5	48.3	50.2
75°	6311.4	2126.9	111.9	25.1	21.3	13.5	17.4	32.8	42.5	48.3	48.3
77.5°	1287.4	494.1	90.7	21.3	17.4	13.5	15.4	30.9	40.5	46.3	46.3
80°	422.7	191.1	67.5	19.3	17.4	13.5	15.4	28.9	40.5	44.4	46.3
82.5°	304.9	96.5	44.4	19.3	17.4	13.5	13.5	28.9	38.6	44.4	44.4
85°	233.5	67.5	28.9	19.3	17.4	13.5	13.5	27.0	36.6	42.5	42.5
87.5°	154.4	27.0	23.1	19.3	17.4	13.5	13.5	27.0	34.8	40.5	42.5
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)