

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: P193604

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193604
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-SL2-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 26396 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

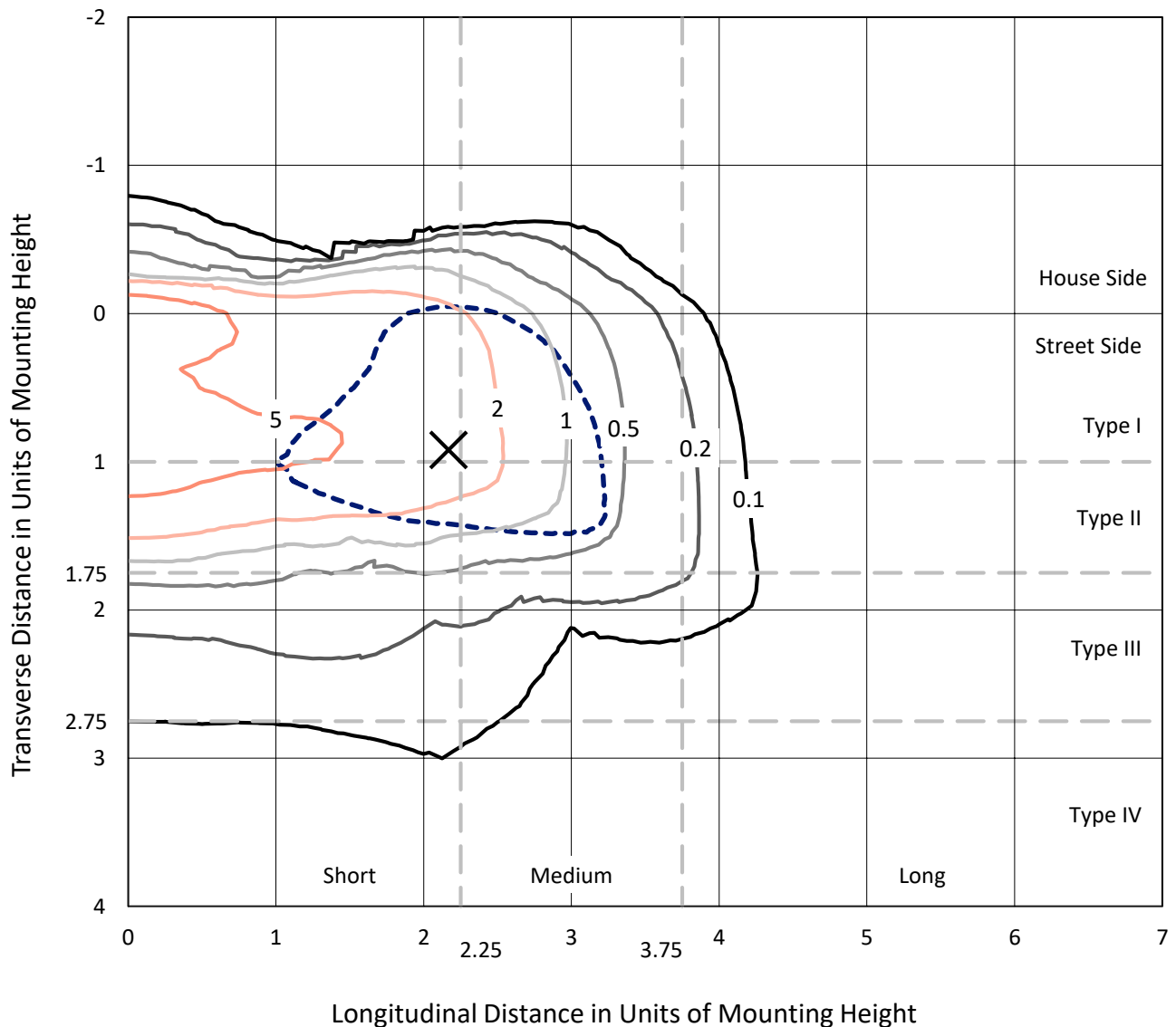


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

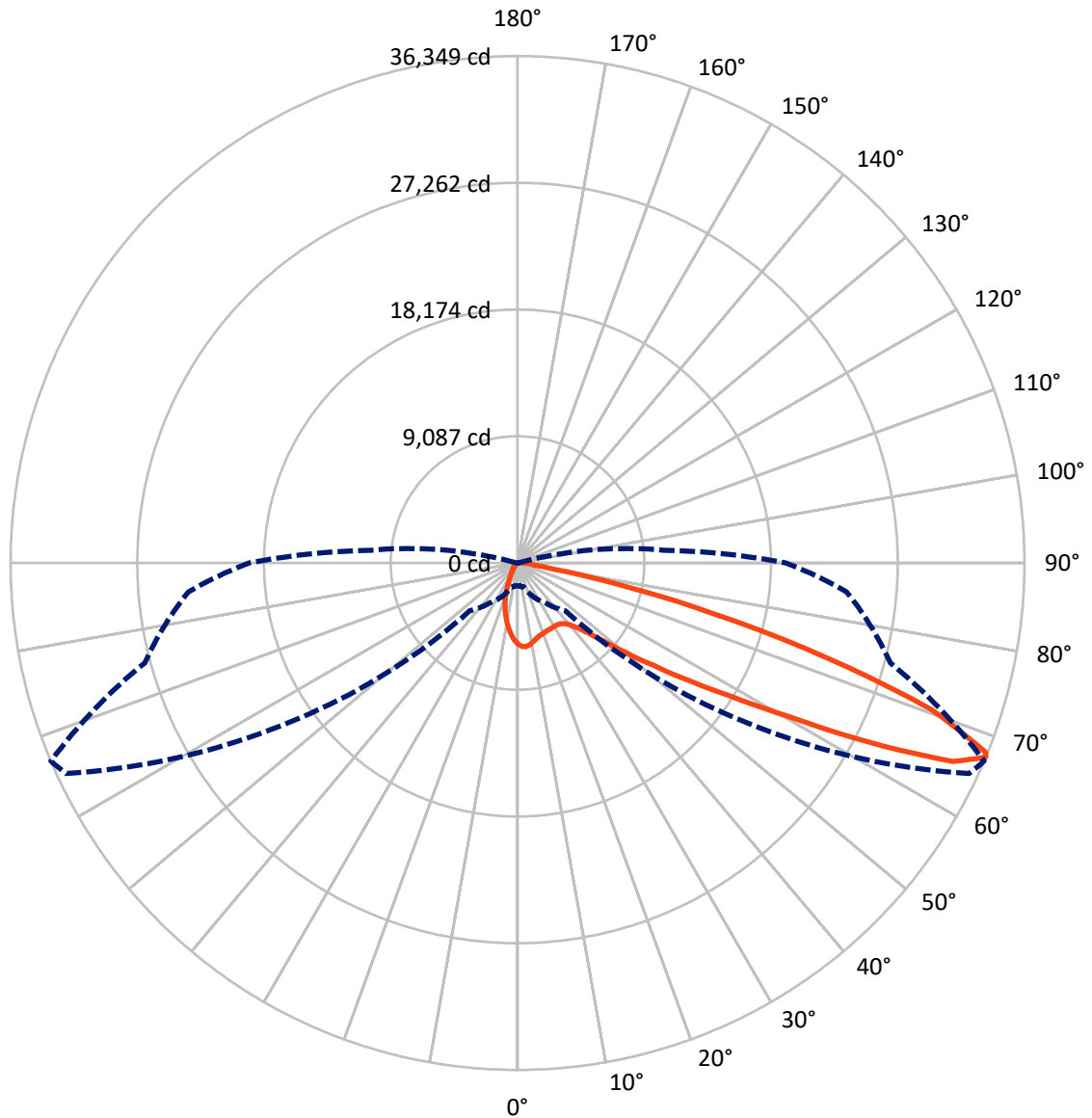


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2740.7	0.0	2740.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	23655.3	0.0	23655.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	26396.0	0.0	26396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.7	1.8
10°-20°	1008.2	3.8
20°-30°	1465.8	5.6
30°-40°	2286.6	8.7
40°-50°	4050.7	15.3
50°-60°	6409.8	24.3
60°-70°	7341.5	27.8
70°-80°	3045.2	11.5
80°-90°	314.6	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°	26396.0	100.0
0°-180°	26396.0	100.0



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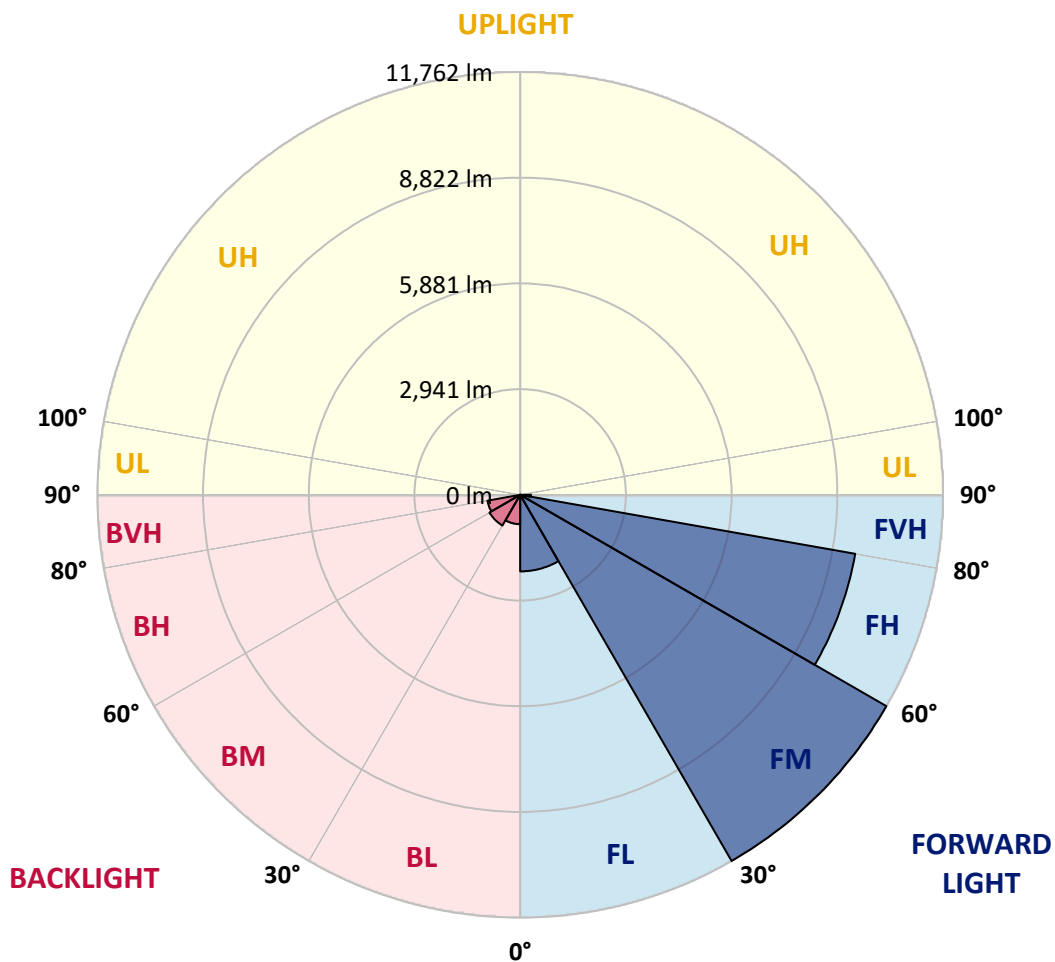
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.8	8.1			
FM (30°-60°)	11762.1	44.6			
FH (60°-80°)	9463.0	35.9			G4/12000
FVH (80°-90°)	300.4	1.1			G3/500
BL (0°-30°)	817.8	3.1	B2/1000		
BM (30°-60°)	985.0	3.7	B1/1000		
BH (60°-80°)	923.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3
2.5°	6018.4	6030.7	6029.1	6038.4	6059.9	6061.5	6039.9	5998.3	5989.1	5935.2	5841.3
5°	5550.3	5585.7	5607.3	5695.0	5793.6	5912.1	6001.4	6033.8	6029.1	5990.7	5849.0
7.5°	5016.1	5051.5	5076.1	5179.3	5310.1	5513.4	5745.9	5936.8	5953.7	5995.3	5842.8
10°	4660.4	4666.6	4700.5	4799.0	4936.0	5143.9	5421.0	5755.1	5805.9	5958.3	5827.5
12.5°	4367.9	4372.5	4417.2	4523.4	4669.7	4879.0	5170.0	5556.5	5635.0	5912.1	5824.4
15°	4160.0	4177.0	4217.0	4327.9	4483.4	4691.2	4989.9	5410.2	5504.1	5895.2	5852.1
17.5°	4090.8	4109.2	4121.6	4201.6	4343.3	4546.5	4852.9	5314.8	5421.0	5904.4	5906.0
20°	4163.1	4177.0	4149.3	4169.3	4257.0	4438.7	4737.4	5233.2	5359.4	5915.2	5975.3
22.5°	4432.6	4438.7	4363.3	4275.5	4260.1	4360.2	4646.6	5168.5	5304.0	5944.5	6056.9
25°	4894.4	4883.7	4760.5	4571.1	4392.5	4346.3	4592.7	5128.5	5276.3	5975.3	6141.5
27.5°	5451.8	5467.2	5297.8	5022.2	4682.0	4438.7	4585.0	5111.5	5264.0	5996.8	6215.4
30°	6129.2	6150.8	5956.8	5610.4	5122.3	4666.6	4655.8	5108.5	5256.3	5983.0	6221.6
32.5°	6820.5	6846.7	6694.3	6337.1	5710.4	5048.4	4815.9	5142.3	5271.6	5935.2	6186.2
35°	7544.1	7581.1	7479.5	7173.1	6508.0	5599.6	5097.7	5245.5	5344.0	5930.6	6150.8
37.5°	8543.3	8577.2	8386.3	8061.4	7473.3	6338.6	5550.3	5439.5	5514.9	6004.5	6160.0
40°	10035.2	10030.6	9537.9	9040.6	8534.1	7277.8	6186.2	5790.5	5829.0	6227.8	6273.9
42.5°	11661.1	11653.4	10925.1	10169.2	9711.9	8434.0	7022.2	6397.1	6370.9	6638.8	6569.5
45°	12914.3	12912.8	12318.5	11467.1	11129.9	9761.2	8103.0	7240.8	7200.8	7307.0	7114.6
47.5°	13448.6	13457.8	13159.1	12560.2	12701.8	11556.4	9465.6	8463.3	8403.2	8360.1	8067.6
50°	13032.9	13051.3	13076.0	12959.0	13855.0	13968.9	11293.1	10186.1	10156.9	9964.4	9507.1
52.5°	11674.9	11768.8	12058.3	12429.3	14255.3	16284.5	14158.3	12326.2	12169.1	11964.4	11460.9
55°	9387.0	9490.2	10039.8	10940.5	13659.5	17805.7	18173.6	15085.2	14823.4	14212.2	13485.5
57.5°	6212.4	6372.5	7170.0	8315.5	11929.0	18050.5	22179.7	18914.2	18002.7	16329.2	15510.1
60°	3422.6	3576.5	4441.8	5479.5	8615.7	16840.3	24874.1	23899.5	22289.0	18695.6	17968.9
62.5°	2107.7	2190.9	2829.8	3795.2	5167.0	13291.5	25431.4	30164.2	28299.7	21742.5	20938.8
65°	1678.2	1713.6	2026.1	3102.3	3704.3	7905.9	23631.6	34940.1	34318.1	25431.4	23597.7
67°	1628.9	1642.8	1790.6	2663.5	3491.9	4846.7	19797.9	35717.6	36348.8	27663.8	23680.9
67.5°	1639.7	1655.1	1795.2	2541.9	3485.7	4454.1	18476.9	35411.2	36208.7	27840.9	23312.9
70°	1581.2	1628.9	2055.4	2540.4	3314.8	3701.2	11065.2	30681.5	31511.3	25868.6	19781.0
72.5°	560.4	563.5	888.4	2055.4	3604.2	3741.3	5556.5	22492.3	23106.6	19788.7	14261.5
75°	332.6	283.3	295.6	585.1	3444.1	3633.5	3205.5	14372.3	14601.7	11339.3	7222.3
77.5°	229.4	200.2	206.3	258.7	1311.8	3582.7	2546.5	7494.9	7250.1	3976.8	1538.1
80°	130.9	115.5	123.2	226.3	477.3	3342.5	2401.8	3039.2	2591.2	674.4	424.9
82.5°	69.3	58.5	70.8	186.3	332.6	2083.1	2406.4	1468.8	1164.0	227.9	289.4
85°	24.6	20.0	33.9	127.8	221.7	638.9	2230.9	1234.8	970.0	110.9	220.2
87.5°	4.6	4.6	13.9	52.3	89.3	195.5	1319.5	732.9	491.1	66.2	150.9
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°	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3	5821.3
2.5°	5802.8	5736.6	5647.3	5538.0	5408.7	5294.7	5210.1	5122.3	5103.8	5073.0	5068.4
5°	5764.3	5650.4	5428.7	5174.7	4903.7	4658.9	4460.3	4283.2	4204.7	4137.0	4129.3
7.5°	5707.4	5536.5	5159.3	4749.7	4326.3	3941.4	3615.0	3384.1	3171.6	3070.0	3054.6
10°	5641.2	5396.4	4856.0	4287.8	3702.8	3159.3	2674.3	2267.9	2021.5	1875.3	1856.8
12.5°	5579.6	5259.3	4546.5	3809.0	3031.5	2304.8	1681.3	1293.3	1034.6	929.9	917.6
15°	5550.3	5148.5	4257.0	3319.4	2329.4	1467.3	919.2	711.3	626.6	602.0	600.5
17.5°	5547.2	5054.6	3973.8	2812.9	1632.0	852.9	598.9	546.6	529.6	523.5	523.5
20°	5545.7	4965.3	3690.5	2287.9	1036.2	568.1	498.8	486.5	474.2	466.5	466.5
22.5°	5562.6	4885.2	3394.9	1752.1	652.8	460.3	438.8	426.5	411.1	400.3	398.8
25°	5579.6	4823.6	3093.1	1247.1	472.7	400.3	378.7	361.8	340.3	326.4	324.9
27.5°	5582.7	4746.6	2769.8	834.5	395.7	349.5	321.8	295.6	271.0	257.1	255.6
30°	5536.5	4617.3	2411.0	563.5	349.5	303.3	266.4	238.6	215.5	204.8	204.8
32.5°	5445.6	4457.2	2016.9	424.9	311.0	260.2	220.2	194.0	178.6	174.0	172.4
35°	5364.0	4284.8	1612.0	360.3	278.7	220.2	180.1	163.2	154.0	152.4	150.9
37.5°	5316.3	4146.2	1231.7	326.4	247.9	184.8	152.4	140.1	135.5	132.4	133.9
40°	5353.2	4030.7	909.9	298.7	217.1	154.0	129.3	123.2	118.6	117.0	117.0
42.5°	5514.9	4010.7	675.9	274.1	187.8	127.8	112.4	107.8	104.7	103.2	104.7
45°	5939.8	4133.9	525.0	251.0	158.6	107.8	95.5	93.9	92.4	92.4	92.4
47.5°	6578.8	4387.9	437.3	224.8	132.4	92.4	83.1	81.6	80.1	81.6	81.6
50°	7661.1	4852.9	391.1	198.6	109.3	78.5	70.8	70.8	70.8	70.8	72.4
52.5°	9307.0	5767.4	360.3	172.4	89.3	66.2	60.0	60.0	61.6	61.6	63.1
55°	11140.7	6980.6	332.6	146.3	75.4	55.4	49.3	50.8	52.3	53.9	53.9
57.5°	13129.9	8324.7	309.5	120.1	64.7	44.6	41.6	43.1	44.6	47.7	47.7
60°	15530.1	9779.6	275.6	93.9	53.9	35.4	32.3	35.4	40.0	43.1	44.6
62.5°	18165.9	11186.9	232.5	73.9	44.6	27.7	26.2	32.3	38.5	41.6	43.1
65°	19967.3	11628.7	178.6	60.0	33.9	20.0	21.6	29.3	37.0	41.6	41.6
67°	19237.5	10543.3	146.3	50.8	27.7	15.4	20.0	29.3	37.0	40.0	41.6
67.5°	18731.0	10118.4	140.1	49.3	26.2	15.4	20.0	29.3	37.0	41.6	41.6
70°	15240.7	7601.1	117.0	37.0	21.6	13.9	16.9	27.7	35.4	40.0	40.0
72.5°	10589.5	4686.6	104.7	26.2	18.5	12.3	15.4	26.2	33.9	38.5	40.0
75°	5034.5	1696.7	89.3	20.0	16.9	10.8	13.9	26.2	33.9	38.5	38.5
77.5°	1026.9	394.1	72.4	16.9	13.9	10.8	12.3	24.6	32.3	37.0	37.0
80°	337.2	152.4	53.9	15.4	13.9	10.8	12.3	23.1	32.3	35.4	37.0
82.5°	243.3	77.0	35.4	15.4	13.9	10.8	10.8	23.1	30.8	35.4	35.4
85°	186.3	53.9	23.1	15.4	13.9	10.8	10.8	21.6	29.3	33.9	33.9
87.5°	123.2	21.6	18.5	15.4	13.9	10.8	10.8	21.6	27.7	32.3	33.9
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)