

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: P299606

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299606  
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: GLNA-AF-06-LED-E1-SL2-7030-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25909.7 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

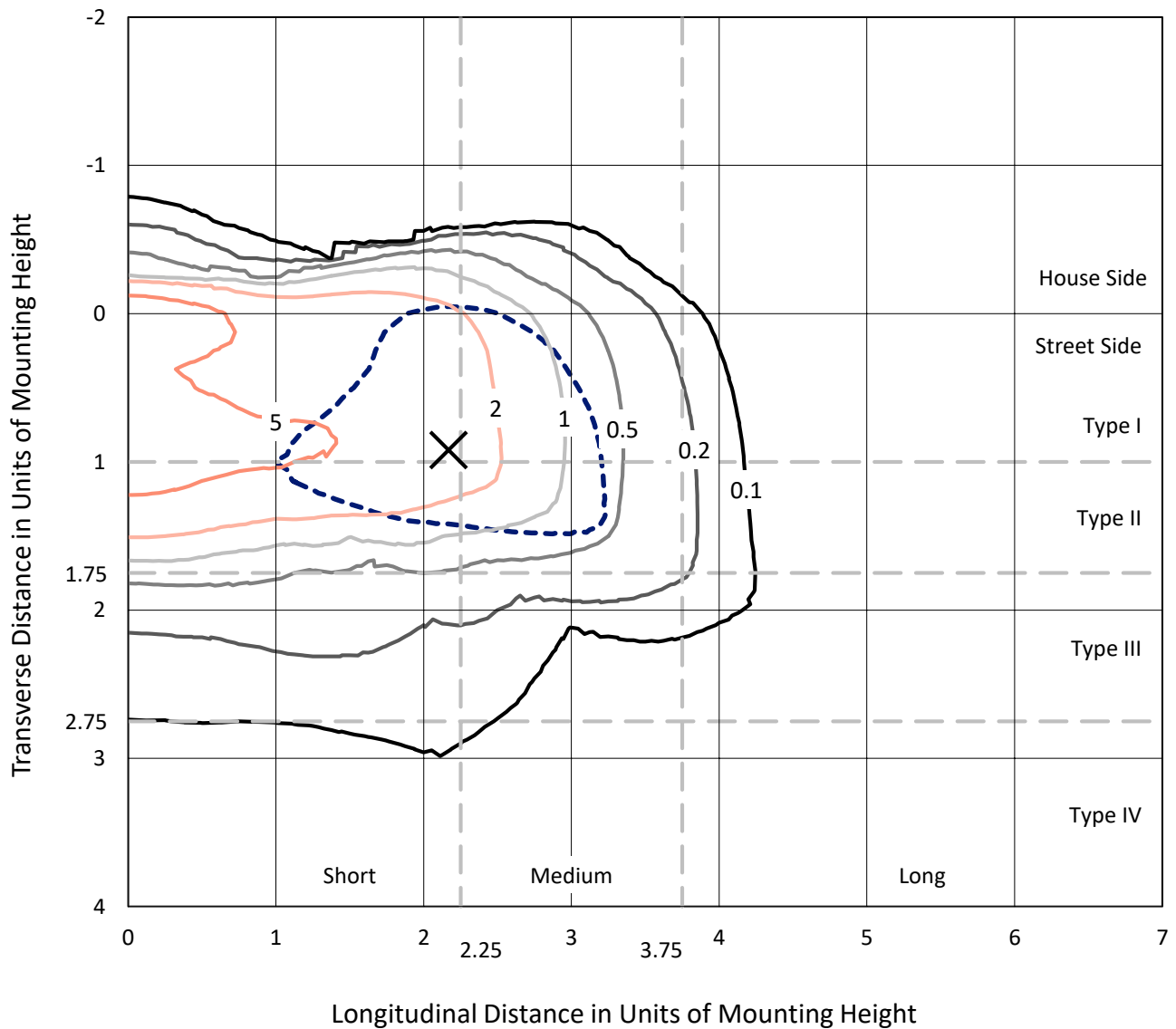
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

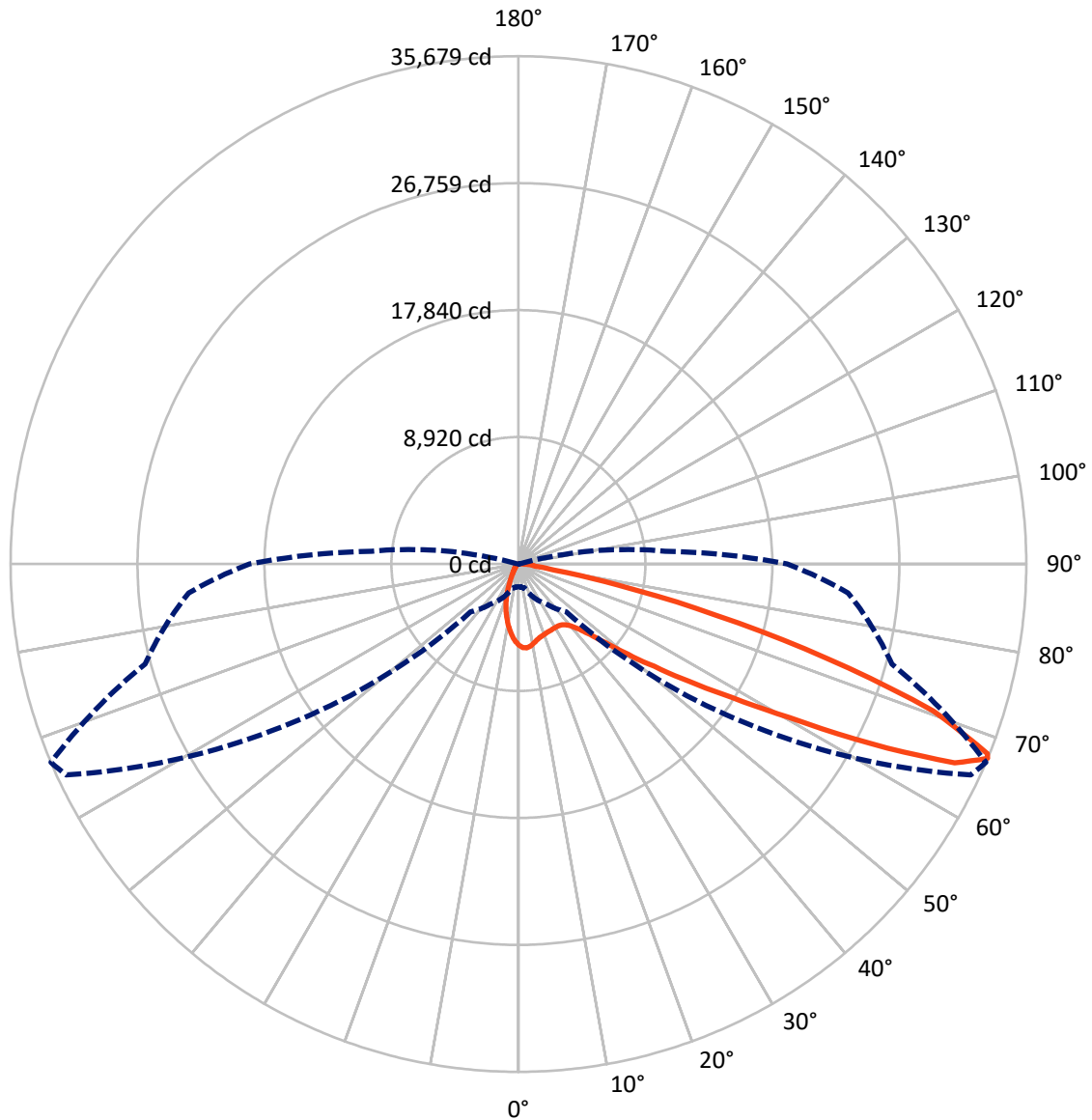
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	2690.2	0.0	2690.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	23219.5	0.0	23219.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	25909.7	0.0	25909.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	1.8
10°-20°	989.6	3.8
20°-30°	1438.8	5.6
30°-40°	2244.5	8.7
40°-50°	3976.0	15.3
50°-60°	6291.7	24.3
60°-70°	7206.3	27.8
70°-80°	2989.1	11.5
80°-90°	308.8	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°	25909.7	100.0
0°-180°	25909.7	100.0



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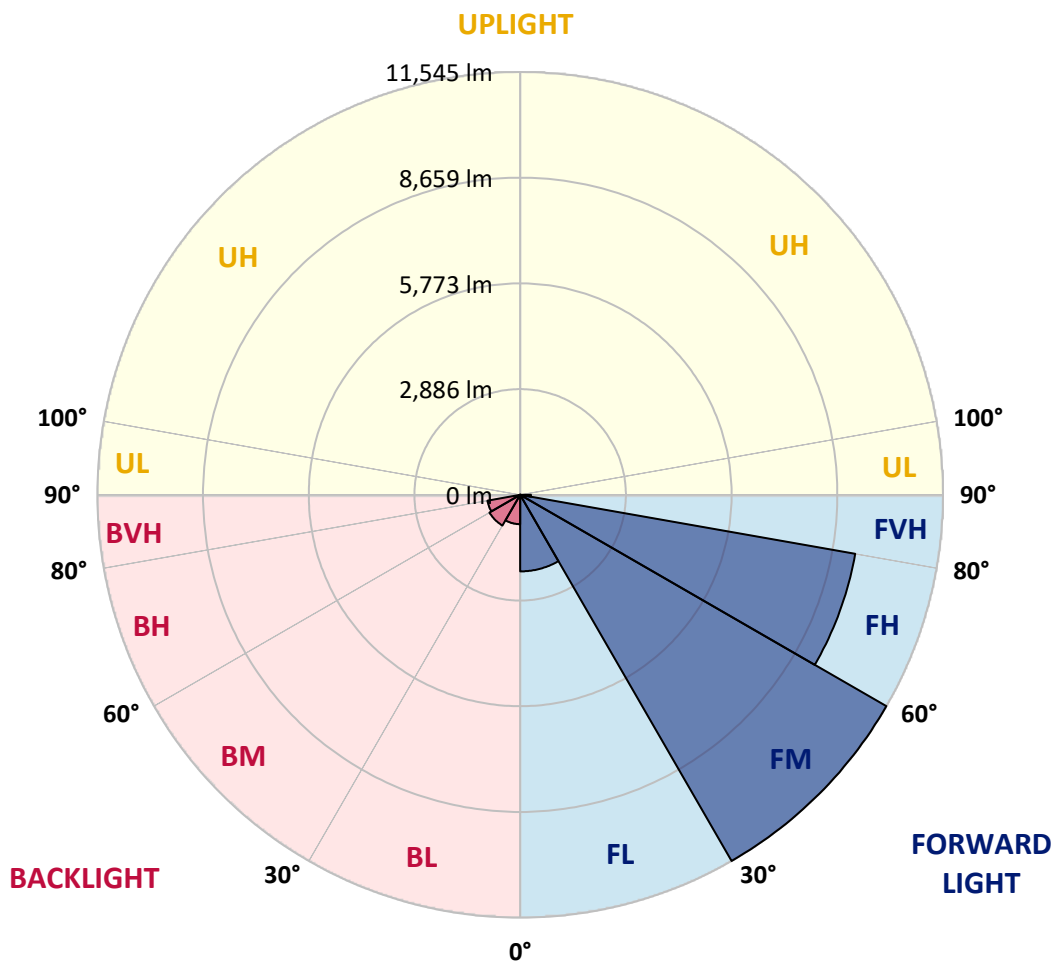
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2090.5	8.1			
FM	(30°-60°)	11545.4	44.6			
FH	(60°-80°)	9288.7	35.9			G4/12000
FVH	(80°-90°)	294.9	1.1			G3/500
BL	(0°-30°)	802.8	3.1	B2/1000		
BM	(30°-60°)	966.8	3.7	B1/1000		
BH	(60°-80°)	906.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	13.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0
2.5°	5907.5	5919.6	5918.1	5927.1	5948.3	5949.8	5928.6	5887.8	5878.8	5825.9	5733.7
5°	5448.1	5482.8	5504.0	5590.1	5686.8	5803.2	5890.9	5922.6	5918.1	5880.3	5741.2
7.5°	4923.7	4958.4	4982.6	5083.8	5212.3	5411.8	5640.0	5827.4	5844.0	5884.8	5735.2
10°	4574.6	4580.6	4613.8	4710.6	4845.1	5049.1	5321.1	5649.1	5698.9	5848.5	5720.1
12.5°	4287.4	4292.0	4335.8	4440.1	4583.6	4789.2	5074.8	5454.1	5531.2	5803.2	5717.1
15°	4083.4	4100.0	4139.3	4248.1	4400.8	4604.8	4898.0	5310.5	5402.7	5786.6	5744.3
17.5°	4015.4	4033.5	4045.6	4124.2	4263.2	4462.7	4763.5	5216.8	5321.1	5795.6	5797.2
20°	4086.4	4100.0	4072.8	4092.5	4178.6	4356.9	4650.1	5136.7	5260.7	5806.2	5865.2
22.5°	4350.9	4356.9	4282.9	4196.7	4181.6	4279.9	4561.0	5073.3	5206.3	5834.9	5945.3
25°	4804.3	4793.7	4672.8	4486.9	4311.6	4266.3	4508.1	5034.0	5179.1	5865.2	6028.4
27.5°	5351.3	5366.4	5200.2	4929.7	4595.7	4356.9	4500.5	5017.4	5167.0	5886.3	6100.9
30°	6016.3	6037.4	5847.0	5507.0	5027.9	4580.6	4570.0	5014.3	5159.4	5872.7	6107.0
32.5°	6694.8	6720.5	6570.9	6220.3	5605.2	4955.4	4727.2	5047.6	5174.5	5825.9	6072.2
35°	7405.1	7441.4	7341.7	7040.9	6388.1	5496.4	5003.7	5148.8	5245.5	5821.3	6037.4
37.5°	8385.9	8419.2	8231.8	7912.9	7335.6	6221.8	5448.1	5339.2	5413.3	5893.9	6046.5
40°	9850.3	9845.8	9362.2	8874.1	8376.9	7143.7	6072.2	5683.8	5721.6	6113.0	6158.3
42.5°	11446.2	11438.7	10723.8	9981.8	9533.0	8278.6	6892.8	6279.2	6253.6	6516.5	6448.5
45°	12676.4	12674.9	12091.5	11255.8	10924.8	9581.3	7953.7	7107.4	7068.1	7172.4	6983.5
47.5°	13200.8	13209.8	12916.7	12328.8	12467.8	11343.4	9291.2	8307.3	8248.4	8206.1	7919.0
50°	12792.7	12810.9	12835.0	12720.2	13599.7	13711.6	11085.0	9998.4	9969.7	9780.8	9332.0
52.5°	11459.8	11552.0	11836.1	12200.3	13992.7	15984.5	13897.5	12099.1	11944.9	11743.9	11249.7
55°	9214.1	9315.3	9854.9	10738.9	13407.8	17477.6	17838.8	14807.2	14550.3	13950.4	13237.0
57.5°	6097.9	6255.1	7037.9	8162.3	11709.2	17717.9	21771.1	18565.7	17671.1	16028.3	15224.3
60°	3359.5	3510.6	4360.0	5378.5	8457.0	16530.1	24415.8	23459.1	21878.4	18351.1	17637.8
62.5°	2068.9	2150.5	2777.7	3725.2	5071.8	13046.6	24962.8	29608.4	27778.3	21341.9	20553.0
65°	1647.3	1682.0	1988.8	3045.2	3636.1	7760.3	23196.2	34296.3	33685.8	24962.8	23162.9
67°	1598.9	1612.5	1757.6	2614.5	3427.5	4757.4	19433.2	35059.5	35679.1	27154.1	23244.5
67.5°	1609.5	1624.6	1762.1	2495.1	3421.5	4372.0	18136.5	34758.8	35541.6	27327.9	22883.4
70°	1552.1	1598.9	2017.5	2493.6	3253.7	3633.0	10861.4	30116.2	30930.8	25392.0	19416.5
72.5°	550.1	553.1	872.0	2017.5	3537.8	3672.3	5454.1	22077.9	22680.8	19424.1	13998.7
75°	326.4	278.1	290.2	574.3	3380.7	3566.6	3146.4	14107.5	14332.7	11130.4	7089.3
77.5°	225.2	196.5	202.5	253.9	1287.6	3516.7	2499.6	7356.8	7116.5	3903.6	1509.7
80°	128.5	113.3	120.9	222.2	468.5	3280.9	2357.6	2983.2	2543.4	661.9	417.1
82.5°	68.0	57.4	69.5	182.9	326.4	2044.7	2362.1	1441.7	1142.5	223.7	284.1
85°	24.2	19.6	33.2	125.4	217.6	627.2	2189.8	1212.0	952.1	108.8	216.1
87.5°	4.5	4.5	13.6	51.4	87.7	191.9	1295.1	719.4	482.1	65.0	148.1
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°	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0	5714.0
2.5°	5695.9	5630.9	5543.3	5436.0	5309.0	5197.2	5114.1	5027.9	5009.8	4979.6	4975.0
5°	5658.1	5546.3	5328.7	5079.3	4813.3	4573.0	4378.1	4204.3	4127.2	4060.7	4053.2
7.5°	5602.2	5434.5	5064.2	4662.2	4246.6	3868.8	3548.4	3321.7	3113.2	3013.4	2998.3
10°	5537.2	5296.9	4766.5	4208.8	3634.6	3101.1	2625.0	2226.1	1984.3	1840.7	1822.6
12.5°	5476.8	5162.4	4462.7	3738.8	2975.7	2262.3	1650.3	1269.5	1015.6	912.8	900.7
15°	5448.1	5053.6	4178.6	3258.3	2286.5	1440.2	902.2	698.2	615.1	590.9	589.4
17.5°	5445.0	4961.4	3900.5	2761.1	1601.9	837.2	587.9	536.5	519.9	513.8	513.8
20°	5443.5	4873.8	3622.5	2245.7	1017.1	557.7	489.6	477.6	465.5	457.9	457.9
22.5°	5460.1	4795.2	3332.3	1719.8	640.8	451.9	430.7	418.6	403.5	392.9	391.4
25°	5476.8	4734.7	3036.1	1224.1	464.0	392.9	371.8	355.1	334.0	320.4	318.9
27.5°	5479.8	4659.2	2718.7	819.1	388.4	343.1	315.9	290.2	266.0	252.4	250.9
30°	5434.5	4532.2	2366.6	553.1	343.1	297.7	261.4	234.2	211.6	201.0	201.0
32.5°	5345.3	4375.1	1979.7	417.1	305.3	255.4	216.1	190.4	175.3	170.8	169.3
35°	5265.2	4205.8	1582.3	353.6	273.5	216.1	176.8	160.2	151.1	149.6	148.1
37.5°	5218.3	4069.8	1209.0	320.4	243.3	181.4	149.6	137.5	133.0	130.0	131.5
40°	5254.6	3956.5	893.1	293.2	213.1	151.1	126.9	120.9	116.4	114.9	114.9
42.5°	5413.3	3936.8	663.4	269.0	184.4	125.4	110.3	105.8	102.8	101.3	102.8
45°	5830.4	4057.7	515.3	246.3	155.7	105.8	93.7	92.2	90.7	90.7	90.7
47.5°	6457.6	4307.1	429.2	220.6	130.0	90.7	81.6	80.1	78.6	80.1	80.1
50°	7520.0	4763.5	383.9	195.0	107.3	77.1	69.5	69.5	69.5	69.5	71.0
52.5°	9135.5	5661.1	353.6	169.3	87.7	65.0	58.9	58.9	60.5	60.5	62.0
55°	10935.4	6852.0	326.4	143.6	74.1	54.4	48.4	49.9	51.4	52.9	52.9
57.5°	12887.9	8171.3	303.8	117.9	63.5	43.8	40.8	42.3	43.8	46.8	46.8
60°	15244.0	9599.5	270.5	92.2	52.9	34.8	31.7	34.8	39.3	42.3	43.8
62.5°	17831.2	10980.7	228.2	72.5	43.8	27.2	25.7	31.7	37.8	40.8	42.3
65°	19599.4	11414.5	175.3	58.9	33.2	19.6	21.2	28.7	36.3	40.8	40.8
67°	18883.1	10349.0	143.6	49.9	27.2	15.1	19.6	28.7	36.3	39.3	40.8
67.5°	18385.9	9931.9	137.5	48.4	25.7	15.1	19.6	28.7	36.3	40.8	40.8
70°	14959.9	7461.0	114.9	36.3	21.2	13.6	16.6	27.2	34.8	39.3	39.3
72.5°	10394.4	4600.2	102.8	25.7	18.1	12.1	15.1	25.7	33.2	37.8	39.3
75°	4941.8	1665.4	87.7	19.6	16.6	10.6	13.6	25.7	33.2	37.8	37.8
77.5°	1008.0	386.9	71.0	16.6	13.6	10.6	12.1	24.2	31.7	36.3	36.3
80°	331.0	149.6	52.9	15.1	13.6	10.6	12.1	22.7	31.7	34.8	36.3
82.5°	238.8	75.6	34.8	15.1	13.6	10.6	10.6	22.7	30.2	34.8	34.8
85°	182.9	52.9	22.7	15.1	13.6	10.6	10.6	21.2	28.7	33.2	33.2
87.5°	120.9	21.2	18.1	15.1	13.6	10.6	10.6	21.2	27.2	31.7	33.2
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)