

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: P456297

Luminaire Tested: **GALN-SA7C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36607 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

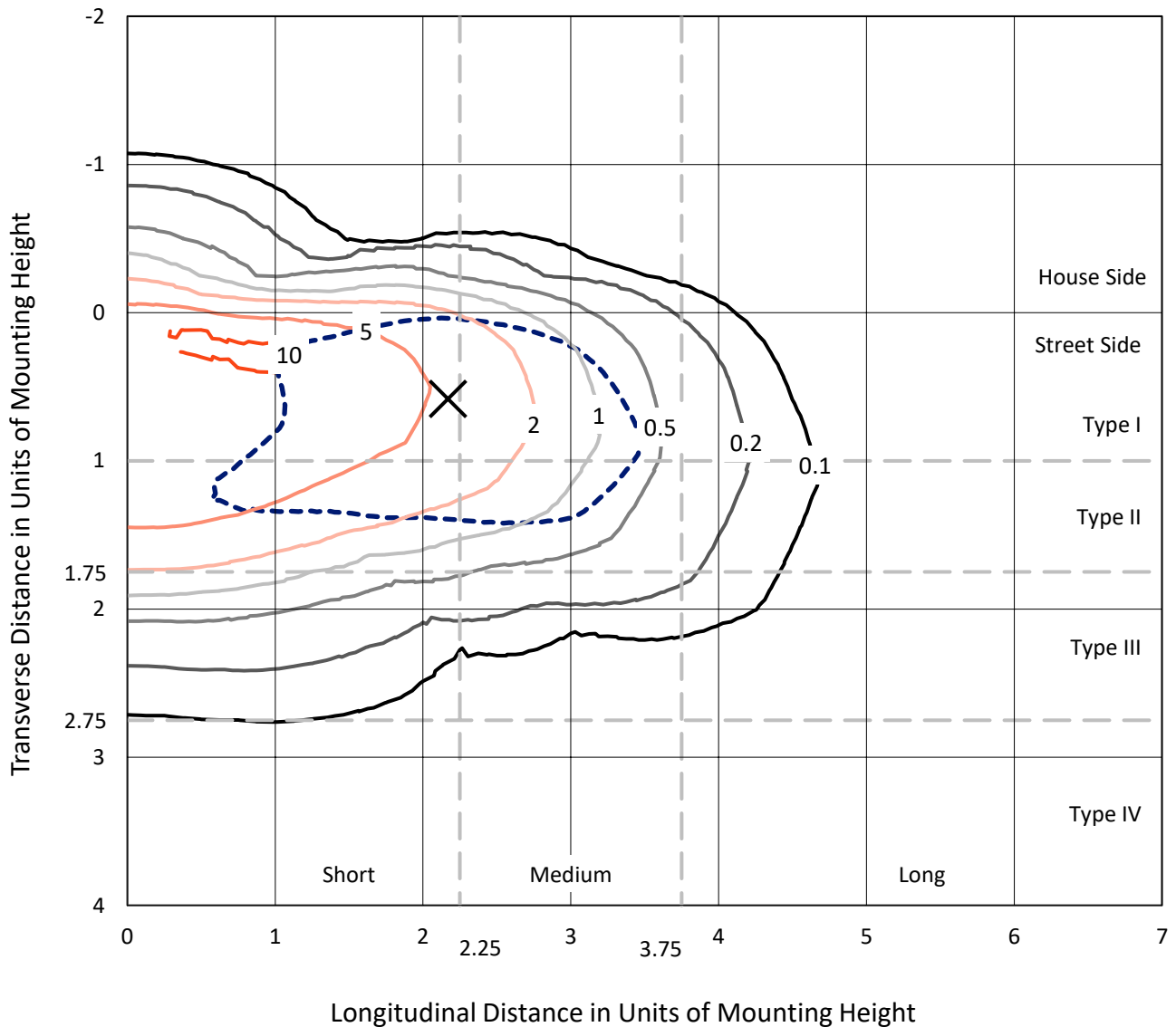
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

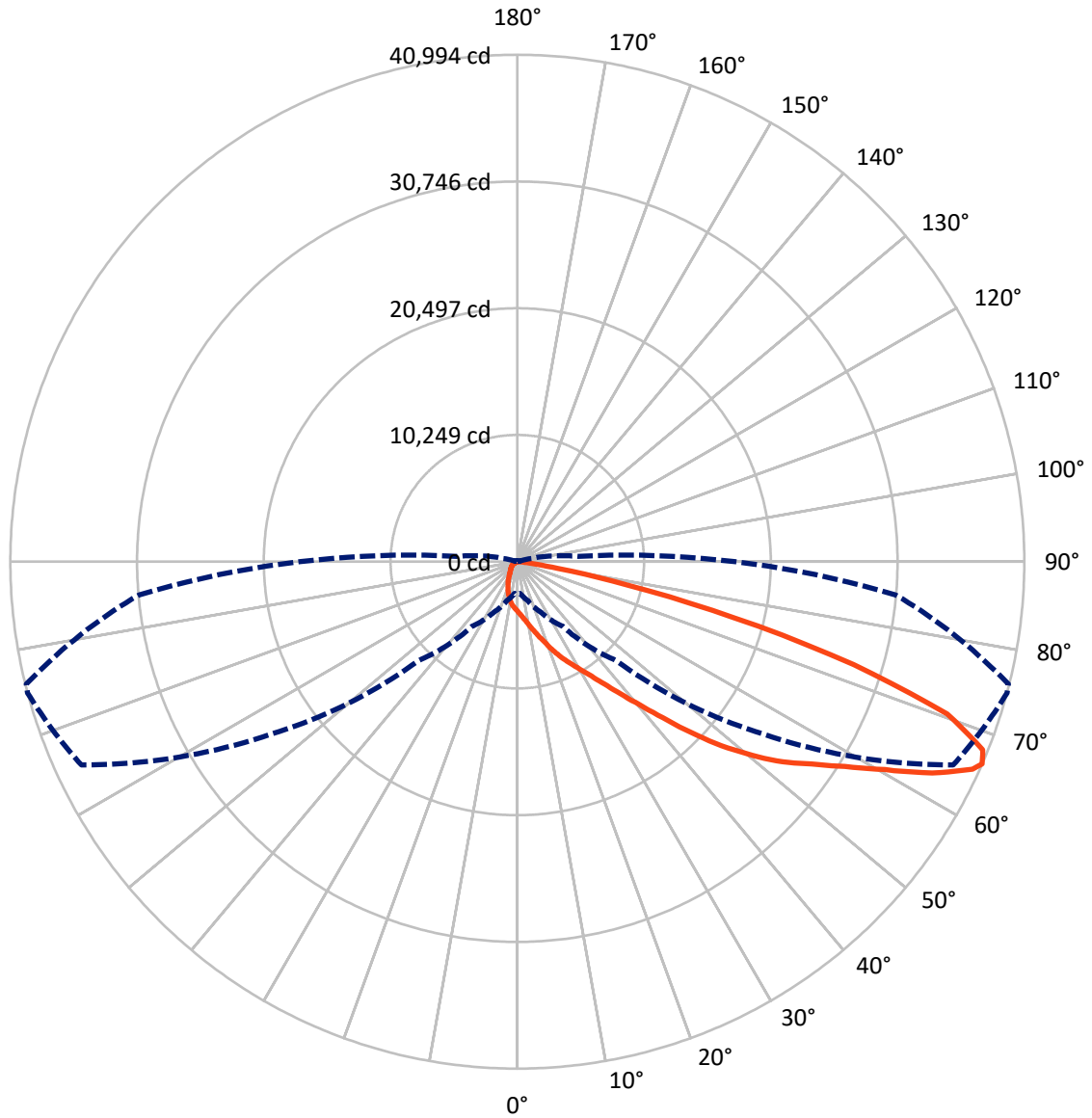
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2259.9	0.0	2259.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	34347.0	0.0	34347.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	36607.0	0.0	36607.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	1.1
10°-20°	1136.4	3.1
20°-30°	1962.3	5.4
30°-40°	3539.6	9.7
40°-50°	6394.4	17.5
50°-60°	9968.9	27.2
60°-70°	9470.0	25.9
70°-80°	3549.1	9.7
80°-90°	200.2	0.5
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°	36607.0	100.0
0°-180°	36607.0	100.0



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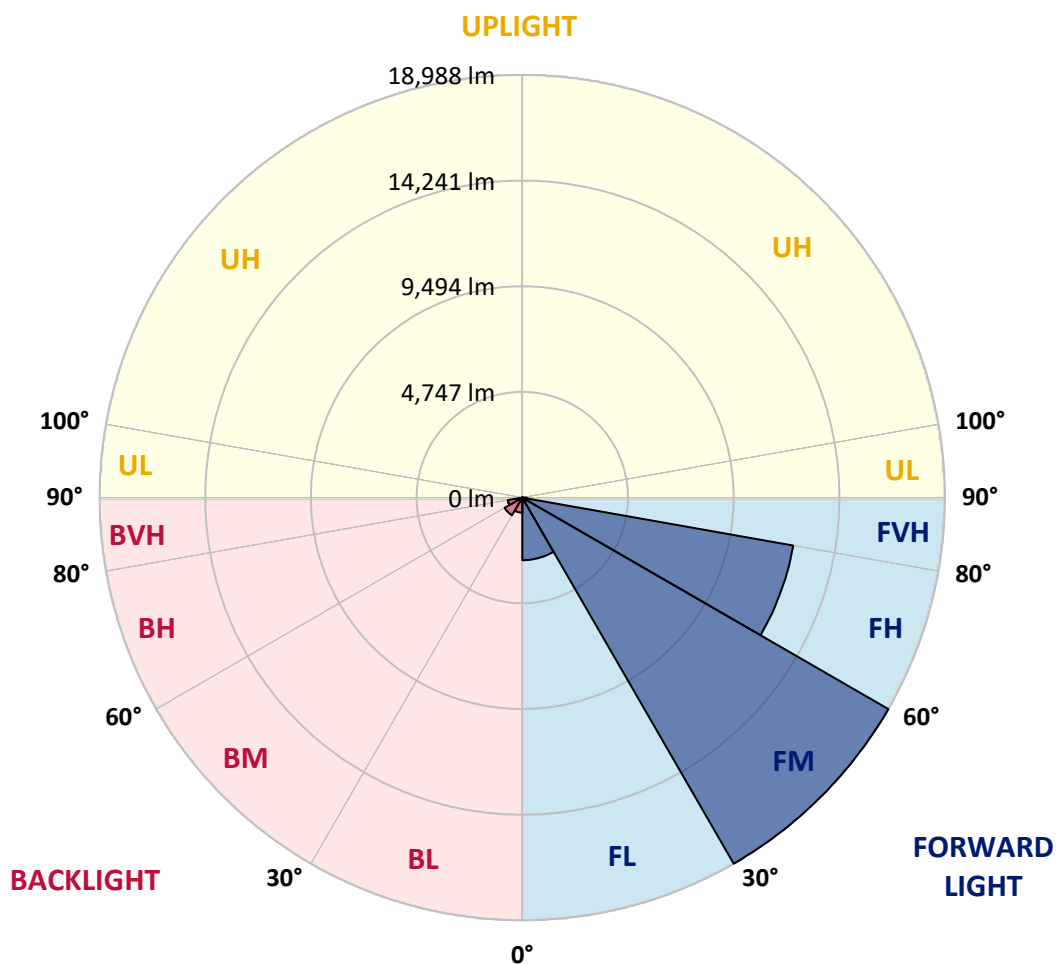
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2809.9	7.7			
FM (30°-60°)	18988.0	51.9			
FH (60°-80°)	12359.2	33.8			G5
FVH (80°-90°)	189.9	0.5			G2/225
BL (0°-30°)	674.9	1.8	B2/1000		
BM (30°-60°)	914.8	2.5	B1/1000		
BH (60°-80°)	659.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3
2.5°	4782.9	4723.3	4742.3	4715.2	4653.0	4560.9	4479.7	4363.3	4246.9	4228.0	4098.1
5°	5413.6	5397.3	5375.7	5297.2	5253.9	5113.1	4945.3	4745.0	4504.1	4460.8	4225.3
7.5°	5844.0	5835.8	5846.7	5806.1	5768.2	5640.9	5462.3	5188.9	4815.4	4791.0	4398.5
10°	5984.7	6006.4	6047.0	6111.9	6171.5	6130.9	5995.5	5654.5	5218.7	5148.3	4596.1
12.5°	5903.5	5927.9	6025.3	6198.5	6390.7	6501.7	6447.6	6198.5	5646.4	5589.5	4818.1
15°	5695.1	5724.9	5862.9	6130.9	6474.6	6788.6	6924.0	6745.3	6144.4	6052.4	5086.1
17.5°	5386.5	5429.8	5627.4	5982.0	6453.0	6994.3	7376.0	7316.4	6674.9	6588.3	5378.4
20°	5153.7	5186.2	5354.0	5760.0	6360.9	7108.0	7806.4	7974.2	7330.0	7181.1	5722.1
22.5°	5308.0	5318.8	5375.7	5619.3	6195.8	7137.8	8185.3	8659.0	8025.6	7893.0	6079.4
25°	6063.2	5954.9	5898.1	5844.0	6160.6	7110.7	8529.1	9373.6	8718.6	8577.8	6434.0
27.5°	7254.2	7205.5	6918.5	6534.2	6461.1	7145.9	8756.5	10050.3	9370.9	9219.3	6780.5
30°	8550.7	8466.8	8290.9	7727.9	7162.2	7394.9	8921.6	10708.0	10142.3	9942.0	7097.2
32.5°	9741.7	9795.9	9533.3	8954.0	8299.0	7925.5	9135.4	11425.3	11027.4	10778.4	7465.3
35°	11130.3	11238.6	10835.3	10280.4	9514.4	8883.7	9552.2	12234.7	12150.8	11836.8	8033.7
37.5°	12540.5	12605.5	12359.2	11579.6	10889.4	10101.7	10337.2	13233.5	13533.9	13266.0	8713.1
40°	13726.1	13815.4	13634.1	12941.1	12204.9	11512.0	11476.8	14321.6	15179.7	14903.6	9725.5
42.5°	14632.9	14700.6	14706.0	14216.0	13552.9	13238.9	12930.3	15710.2	17242.2	16922.8	10900.2
45°	15777.9	15875.3	15818.5	15485.5	14990.2	14933.3	14773.6	17388.4	19710.8	19307.5	12424.2
47.5°	17548.1	17613.1	17472.3	17079.8	16576.4	16665.7	16570.9	19269.6	22228.1	21881.7	14002.2
50°	18777.0	18885.2	19085.6	19242.5	18877.1	18546.9	18265.4	21026.3	24618.2	24306.9	15615.5
52.5°	18763.4	18942.1	19575.5	20365.9	21164.4	21064.2	20254.9	22967.1	26900.0	26515.7	17131.3
55°	17499.4	17845.8	18777.0	20179.1	22390.5	23492.2	23124.1	25213.7	28870.6	28610.7	18888.0
57.5°	14890.0	15101.2	16395.0	18354.7	21705.7	24634.5	26448.0	28258.9	31233.6	31111.8	21616.4
60°	10015.1	10109.8	11774.5	14197.1	18479.2	23494.9	28884.1	31942.8	34143.4	34083.9	24802.3
62.5°	5738.4	5779.0	6986.2	9029.8	13149.6	19911.1	29089.8	36487.5	37632.5	37664.9	28488.9
65°	3088.4	3110.1	4084.5	5299.9	8001.3	14191.7	26158.4	38977.7	40452.9	40515.2	30773.5
66°	2666.2	2563.3	3250.9	4517.6	6366.4	11295.4	24304.2	38888.4	40994.3	40926.6	30692.3
67.5°	2027.4	2119.4	2595.8	3472.8	4717.9	8031.0	20065.4	37158.8	40582.9	40371.7	29444.4
70°	1450.8	1488.7	1848.7	2476.7	3213.0	4406.6	12822.0	30862.8	36885.4	36601.2	25652.2
72.5°	936.5	977.1	1310.1	1791.9	2322.4	2406.3	7178.4	22298.5	28437.5	28396.9	19318.3
75°	668.6	706.5	866.2	1283.0	1745.9	1488.7	3456.6	15028.1	18078.6	17956.8	11950.5
77.5°	484.5	503.5	579.3	839.1	1247.8	1066.5	1602.4	8025.6	9000.1	9425.0	5280.9
80°	278.8	295.0	403.3	511.6	844.5	728.1	766.0	3221.1	3321.2	3161.5	1651.1
82.5°	138.0	157.0	240.9	349.2	527.8	489.9	351.9	969.0	1023.2	996.1	416.8
85°	32.5	40.6	135.3	230.1	257.1	219.2	170.5	284.2	351.9	343.8	159.7
87.5°	2.7	5.4	48.7	40.6	43.3	73.1	59.5	73.1	113.7	105.6	56.8
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°	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3	4003.3
2.5°	4038.5	3987.1	3838.2	3692.1	3570.3	3443.0	3326.6	3259.0	3231.9	3202.1	3215.7
5°	4095.4	3970.9	3670.4	3410.6	3156.1	2939.6	2766.3	2655.4	2601.2	2593.1	2579.6
7.5°	4171.2	3957.3	3491.8	3085.7	2752.8	2511.9	2314.3	2154.6	2105.9	2062.6	2027.4
10°	4263.2	3933.0	3269.8	2744.7	2390.1	2086.9	1827.1	1637.6	1540.2	1513.1	1532.0
12.5°	4360.6	3886.9	3037.0	2430.7	2022.0	1634.9	1394.0	1299.3	1272.2	1261.4	1264.1
15°	4458.1	3830.1	2793.4	2127.5	1610.5	1304.7	1193.7	1169.3	1158.5	1153.1	1147.7
17.5°	4547.4	3738.1	2520.0	1832.5	1304.7	1115.2	1074.6	1052.9	1031.3	1023.2	1009.6
20°	4653.0	3632.5	2273.7	1502.3	1104.4	1009.6	960.9	920.3	887.8	866.2	863.5
22.5°	4753.1	3497.2	2016.6	1245.1	1006.9	906.8	828.3	785.0	747.1	720.0	728.1
25°	4807.3	3332.1	1786.5	1085.4	917.6	803.9	717.3	663.2	622.6	609.0	606.3
27.5°	4807.3	3129.0	1561.8	993.4	836.4	711.9	622.6	571.1	544.1	525.1	527.8
30°	4769.4	2904.4	1353.4	923.0	766.0	630.7	546.8	500.8	479.1	465.6	462.9
32.5°	4739.6	2690.5	1174.7	855.3	692.9	560.3	487.2	452.0	430.4	416.8	416.8
35°	4785.6	2506.5	1036.7	787.7	625.3	506.2	441.2	408.7	387.1	376.2	373.5
37.5°	4907.4	2338.7	931.1	714.6	563.0	460.2	408.7	370.8	349.2	335.6	330.2
40°	5207.9	2243.9	852.6	646.9	503.5	422.3	370.8	335.6	308.6	295.0	292.3
42.5°	5689.7	2246.6	776.8	584.7	457.4	389.8	338.3	297.7	268.0	254.4	251.7
45°	6415.1	2349.5	717.3	525.1	416.8	354.6	303.2	259.9	232.8	219.2	219.2
47.5°	7284.0	2549.8	665.9	473.7	379.0	322.1	268.0	224.7	197.6	186.8	186.8
50°	8225.9	2809.6	614.4	419.6	346.5	286.9	230.1	194.9	173.2	165.1	165.1
52.5°	9186.8	3123.6	563.0	376.2	311.3	249.0	197.6	173.2	154.3	148.9	146.2
55°	10448.2	3524.2	508.9	330.2	273.4	213.8	175.9	151.6	129.9	121.8	119.1
57.5°	12389.0	4127.8	449.3	289.6	224.7	178.6	151.6	127.2	102.9	89.3	86.6
60°	14730.3	4864.1	387.1	254.4	181.4	146.2	121.8	97.4	75.8	59.5	56.8
62.5°	16922.8	5332.4	327.5	213.8	143.5	111.0	86.6	73.1	54.1	37.9	35.2
65°	17891.9	5175.4	270.7	173.2	113.7	78.5	56.8	51.4	32.5	16.2	13.5
66°	17569.8	4942.6	249.0	157.0	102.9	67.7	48.7	43.3	24.4	8.1	8.1
67.5°	16619.7	4393.1	216.5	135.3	89.3	54.1	37.9	32.5	13.5	2.7	0.0
70°	14240.4	3554.0	170.5	100.2	65.0	37.9	21.7	16.2	8.1	0.0	0.0
72.5°	10938.1	2647.2	135.3	75.8	46.0	21.7	10.8	5.4	8.1	0.0	0.0
75°	6702.0	1513.1	105.6	56.8	29.8	13.5	8.1	0.0	8.1	2.7	0.0
77.5°	2974.8	679.4	70.4	37.9	21.7	10.8	5.4	0.0	5.4	2.7	0.0
80°	752.5	222.0	40.6	27.1	16.2	8.1	2.7	0.0	5.4	5.4	2.7
82.5°	205.7	81.2	29.8	21.7	13.5	8.1	2.7	0.0	5.4	5.4	5.4
85°	81.2	37.9	27.1	21.7	16.2	8.1	2.7	0.0	5.4	5.4	5.4
87.5°	37.9	27.1	27.1	24.4	18.9	8.1	2.7	0.0	5.4	2.7	5.4
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)