

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: P455313

Luminaire Tested: **GALN-SA6C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27914 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

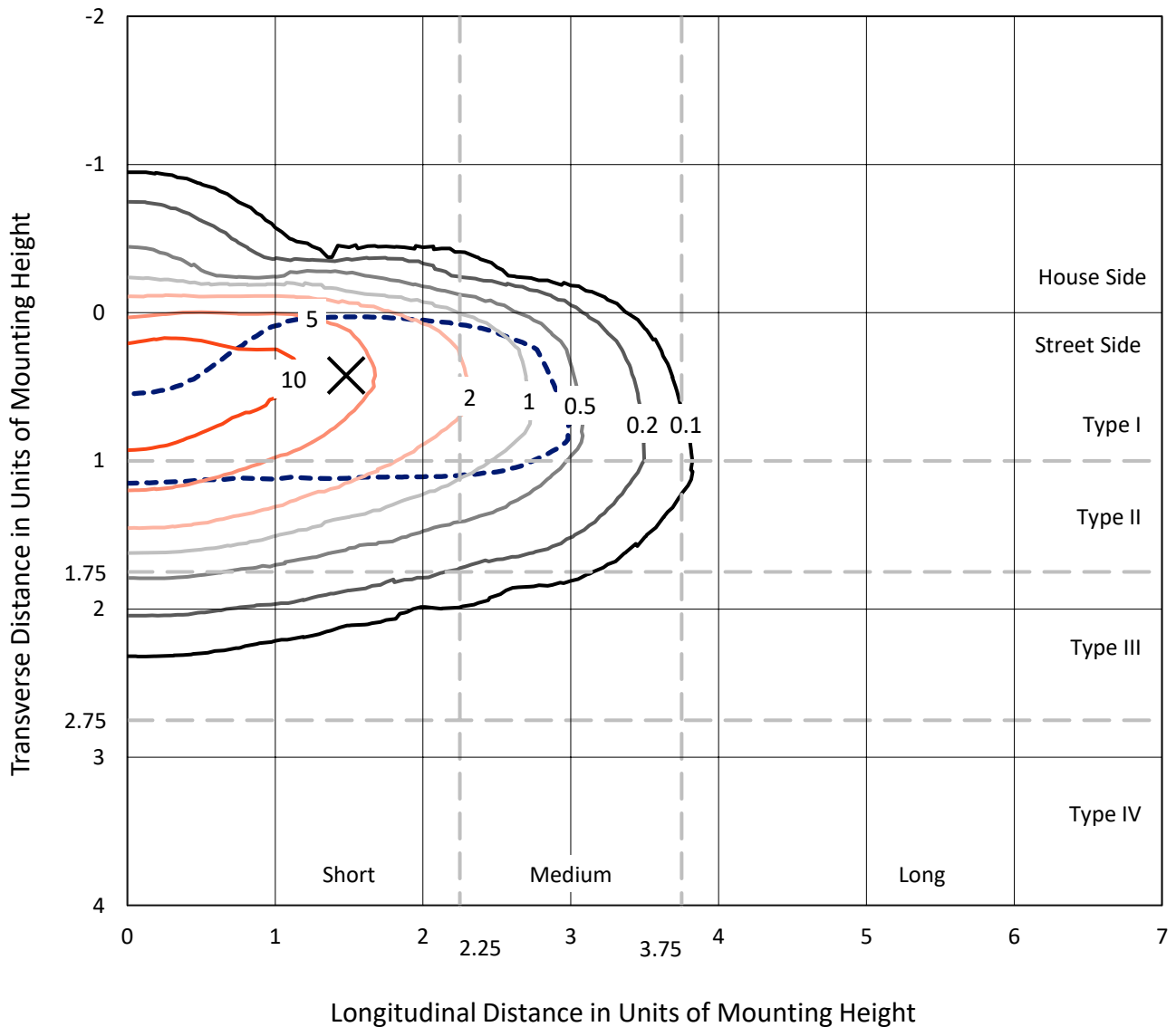
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

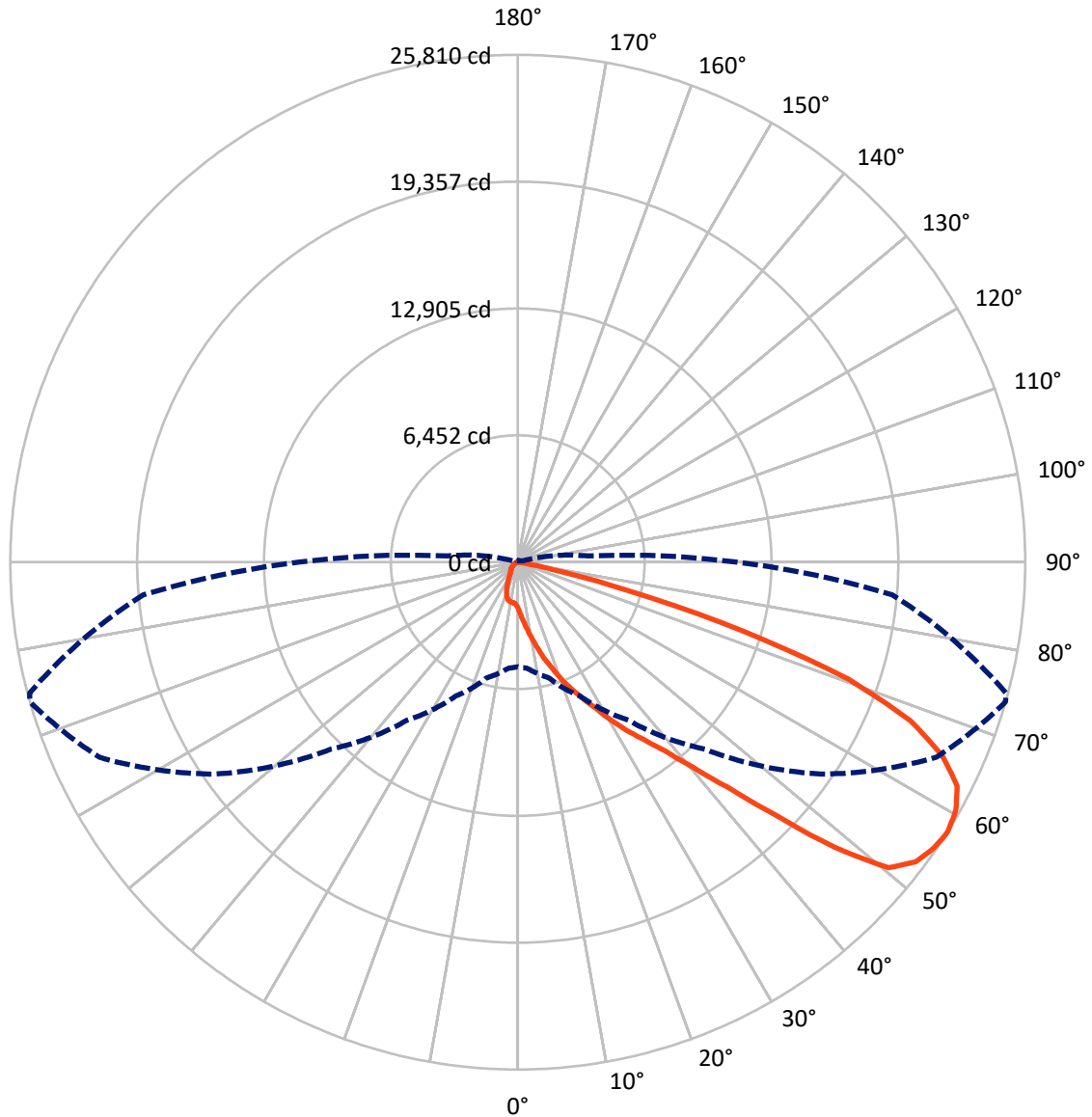
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1610.0	0.0	1610.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26304.0	0.0	26304.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	27914.0	0.0	27914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	1.0
10°-20°	1112.2	4.0
20°-30°	2379.9	8.5
30°-40°	4374.2	15.7
40°-50°	6705.7	24.0
50°-60°	7093.7	25.4
60°-70°	4632.4	16.6
70°-80°	1265.7	4.5
80°-90°	68.1	0.2
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°	27914.0	100.0
0°-180°	27914.0	100.0

Coefficient of Utilization



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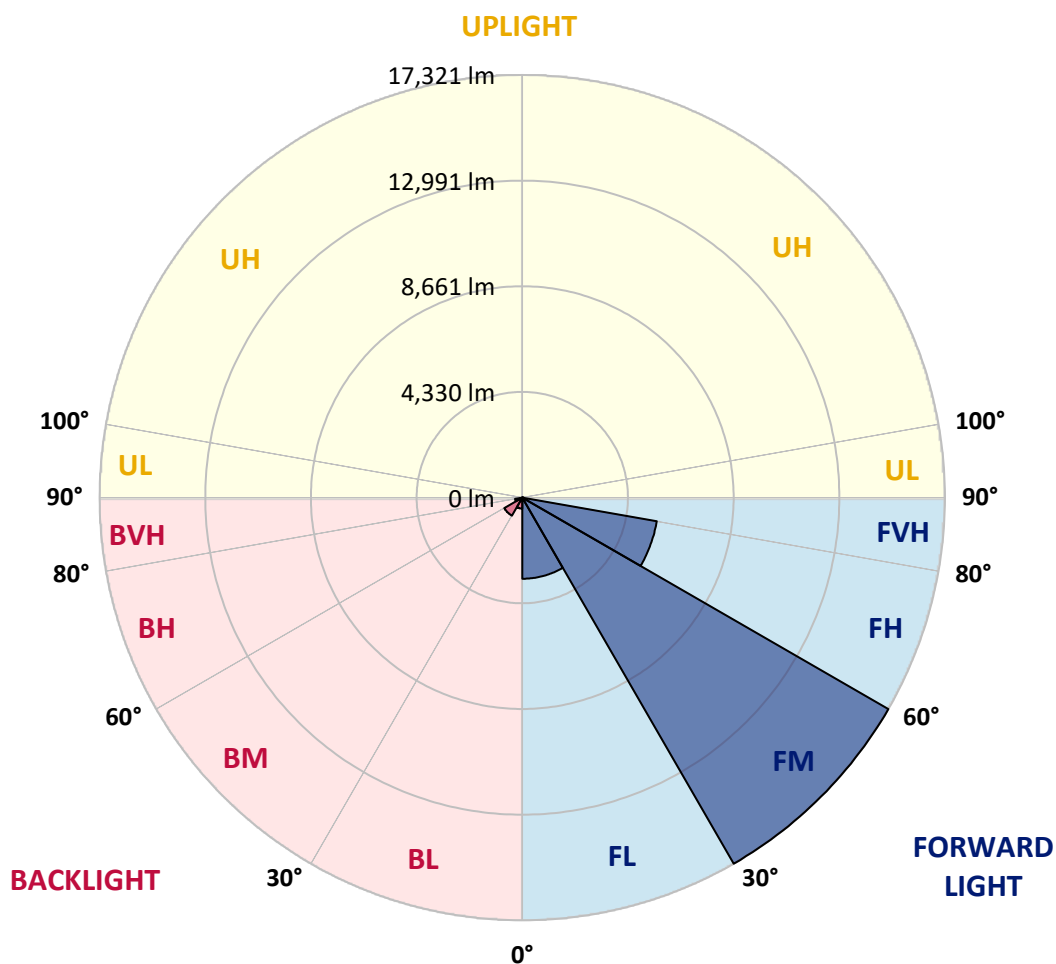
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3324.5	11.9			
FM (30°-60°)	17321.1	62.1			
FH (60°-80°)	5595.8	20.0			G3/7500
FVH (80°-90°)	62.5	0.2			G1/100
BL (0°-30°)	449.7	1.6	B1/500		
BM (30°-60°)	852.4	3.1	B1/1000		
BH (60°-80°)	302.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8
2.5°	3420.9	3390.0	3328.4	3307.2	3216.6	3075.9	2952.6	2786.8	2655.8	2642.3	2484.2
5°	4581.1	4511.7	4482.8	4344.0	4126.3	3922.0	3571.2	3305.2	2998.8	2975.7	2657.7
7.5°	5698.9	5602.5	5573.6	5442.6	5188.2	4866.3	4411.5	3927.7	3442.1	3397.8	2890.9
10°	6508.3	6521.8	6469.8	6383.1	6176.9	5849.2	5288.4	4627.3	3935.5	3879.6	3153.0
12.5°	7088.4	7086.5	7096.2	7094.2	6984.4	6735.8	6146.0	5384.8	4478.9	4369.1	3453.6
15°	7466.2	7472.0	7500.9	7601.1	7612.7	7458.5	6967.0	6109.4	5109.2	4972.3	3779.3
17.5°	7847.8	7888.3	7934.5	8028.9	8113.7	8052.1	7705.2	6864.9	5679.6	5577.5	4128.2
20°	8478.0	8533.9	8506.9	8564.7	8609.1	8614.8	8346.9	7562.6	6371.5	6200.0	4527.1
22.5°	9486.0	9484.0	9414.6	9310.6	9223.8	9220.0	8977.2	8279.5	6999.8	6834.0	4928.0
25°	10759.9	10765.7	10630.7	10333.9	10118.1	9854.1	9574.6	8907.8	7672.4	7468.1	5350.1
27.5°	12220.7	12184.1	11979.8	11571.2	11143.4	10692.4	10289.6	9638.2	8385.5	8215.9	5833.8
30°	13533.2	13519.7	13280.7	12781.6	12218.8	11765.9	11181.9	10553.7	9308.6	9100.5	6375.4
32.5°	14755.1	14774.3	14442.9	13926.3	13382.9	12860.6	12243.9	11428.6	10214.5	9919.6	6965.1
35°	15709.1	15728.3	15385.3	14955.5	14396.6	13963.0	13375.2	12361.4	11108.7	10860.1	7643.5
37.5°	16217.9	16242.9	16044.4	15720.6	15371.8	15154.0	14606.7	13562.1	12195.7	12045.3	8445.2
40°	16314.2	16343.1	16256.4	16169.7	16150.4	16306.5	16146.5	14976.7	13702.8	13467.7	9640.1
42.5°	16025.1	16063.7	16102.2	16294.9	16688.1	17260.5	17817.5	16896.3	15643.5	15327.5	11101.0
45°	15265.8	15261.9	15414.2	15913.4	16794.1	18016.0	19563.6	19299.5	18287.7	17911.9	13165.1
47.5°	13966.8	13947.5	14277.1	14988.3	16360.5	18154.7	20987.8	22217.4	21662.4	21315.4	15383.4
50°	11987.5	12082.0	12600.4	13592.9	15283.1	17734.6	21427.2	24131.2	24431.8	24063.7	17175.7
52.5°	9669.0	9665.2	10478.5	11825.6	13687.4	16809.5	21120.8	24478.1	25331.8	25050.5	18058.4
55°	7155.9	7206.0	8052.1	9410.8	11615.6	15121.2	20120.5	24121.5	25674.9	25476.4	18640.4
57°	5323.1	5411.7	6090.1	7527.9	9811.7	13450.3	18788.8	23483.6	25809.8	25701.9	19124.2
57.5°	4968.5	4972.3	5633.4	6940.0	9283.6	12808.5	18407.2	23217.6	25806.0	25746.2	19203.2
60°	3058.6	3154.9	3611.7	4690.9	6795.5	9996.7	15849.8	21689.3	25605.5	25692.2	19540.4
62.5°	1830.9	1871.4	2168.2	2827.3	4380.7	7296.6	12970.4	19733.2	25083.2	25347.3	19517.3
65°	1177.6	1187.2	1322.1	1711.4	2738.6	4931.8	9994.7	17148.7	23732.2	24217.9	18754.1
67.5°	909.7	925.1	979.0	1123.6	1588.1	3072.0	7069.2	14390.8	21546.7	22173.1	16904.0
70°	807.5	815.2	834.5	880.8	1050.4	1734.5	4398.0	11241.7	17867.6	18044.9	13228.7
72.5°	659.1	680.3	740.1	755.5	832.6	1083.1	2447.6	7545.2	12004.9	12049.2	7400.7
75°	510.7	514.6	603.2	647.6	701.5	745.8	1092.8	3804.4	5766.3	5458.0	2852.3
77.5°	381.6	398.9	439.4	495.3	572.4	533.8	489.5	1433.9	1790.4	1757.7	828.7
80°	244.8	254.4	306.4	372.0	445.2	348.8	275.6	420.1	393.2	404.7	198.5
82.5°	123.3	125.3	196.6	302.6	283.3	175.4	173.5	171.5	146.5	144.5	92.5
85°	13.5	28.9	127.2	173.5	127.2	57.8	80.9	79.0	77.1	79.0	54.0
87.5°	1.9	1.9	21.2	25.1	17.3	19.3	23.1	25.1	30.8	28.9	23.1
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°	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8	2337.8
2.5°	2407.1	2330.1	2187.4	2050.6	1948.5	1882.9	1798.1	1767.3	1723.0	1717.2	1696.0
5°	2511.2	2364.7	2116.1	1919.5	1761.5	1642.0	1538.0	1451.2	1381.8	1366.4	1374.1
7.5°	2659.6	2441.8	2094.9	1827.0	1607.3	1403.0	1237.3	1135.2	1061.9	1034.9	1038.8
10°	2827.3	2544.0	2091.1	1728.7	1393.4	1142.9	961.7	871.1	828.7	813.3	796.0
12.5°	3025.8	2661.5	2081.4	1576.5	1158.3	911.6	782.5	728.5	688.0	676.5	676.5
15°	3249.4	2786.8	2035.2	1387.6	940.5	753.6	666.8	624.4	610.9	599.4	599.4
17.5°	3482.6	2910.2	1938.8	1154.4	780.5	645.6	591.7	566.6	547.3	533.8	533.8
20°	3748.5	3031.6	1784.6	948.2	659.1	576.2	533.8	504.9	489.5	478.0	474.1
22.5°	4001.0	3129.9	1588.1	778.6	574.3	518.4	479.9	449.1	433.6	427.9	427.9
25°	4263.1	3189.6	1351.0	643.7	524.2	470.3	427.9	402.8	389.3	385.5	383.5
27.5°	4517.5	3224.3	1142.9	562.8	478.0	425.9	385.5	366.2	352.7	348.8	350.8
30°	4825.8	3230.1	940.5	504.9	437.5	383.5	346.9	329.6	321.9	318.0	316.1
32.5°	5138.1	3222.4	790.2	470.3	398.9	346.9	316.1	302.6	296.8	291.0	291.0
35°	5488.8	3181.9	672.6	435.6	362.3	316.1	289.1	277.5	269.8	264.0	262.1
37.5°	5924.4	3160.7	605.2	397.0	329.6	287.2	262.1	250.5	244.8	237.1	235.1
40°	6610.5	3255.1	584.0	362.3	296.8	260.2	237.1	223.6	215.9	208.1	206.2
42.5°	7466.2	3420.9	549.3	327.6	267.9	235.1	212.0	196.6	183.1	173.5	169.6
45°	8574.4	3638.7	495.3	291.0	242.8	208.1	186.9	167.7	150.3	142.6	140.7
47.5°	9736.5	3848.7	447.1	262.1	215.9	185.0	161.9	140.7	125.3	119.5	117.6
50°	10449.6	3891.1	416.3	229.3	188.9	160.0	136.8	117.6	107.9	102.1	102.1
52.5°	10775.3	3823.7	373.9	200.4	163.8	140.7	117.6	102.1	96.4	92.5	90.6
55°	11002.7	3719.6	318.0	173.5	140.7	119.5	104.1	92.5	84.8	80.9	79.0
57°	11135.7	3578.9	275.6	152.3	121.4	104.1	92.5	82.9	75.2	67.5	67.5
57.5°	11141.5	3525.0	264.0	150.3	115.6	100.2	90.6	80.9	71.3	63.6	61.7
60°	10969.9	3154.9	212.0	127.2	92.5	84.8	75.2	63.6	50.1	42.4	40.5
62.5°	10418.7	2684.7	175.4	107.9	75.2	65.5	54.0	48.2	34.7	25.1	25.1
65°	9584.2	2177.8	150.3	86.7	61.7	48.2	36.6	34.7	21.2	11.6	9.6
67.5°	8377.8	1696.0	127.2	71.3	52.0	34.7	25.1	23.1	11.6	3.9	0.0
70°	6383.1	1156.4	106.0	57.8	38.5	25.1	17.3	13.5	7.7	1.9	0.0
72.5°	3679.1	636.0	88.7	44.3	28.9	19.3	13.5	7.7	7.7	0.0	0.0
75°	1314.4	273.7	67.5	32.8	23.1	15.4	9.6	3.9	5.8	1.9	0.0
77.5°	418.2	146.5	44.3	25.1	19.3	11.6	7.7	3.9	3.9	1.9	0.0
80°	123.3	77.1	27.0	21.2	13.5	9.6	5.8	1.9	3.9	1.9	0.0
82.5°	67.5	38.5	21.2	15.4	13.5	7.7	5.8	1.9	1.9	1.9	0.0
85°	34.7	23.1	17.3	15.4	13.5	7.7	5.8	1.9	0.0	1.9	1.9
87.5°	19.3	17.3	17.3	15.4	13.5	9.6	5.8	1.9	0.0	0.0	0.0
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)