

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: P459313

Luminaire Tested: **GALN-SA7D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459313
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-SA7D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 37523 lumens
Efficiency: N/A
Efficacy: 86.7 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

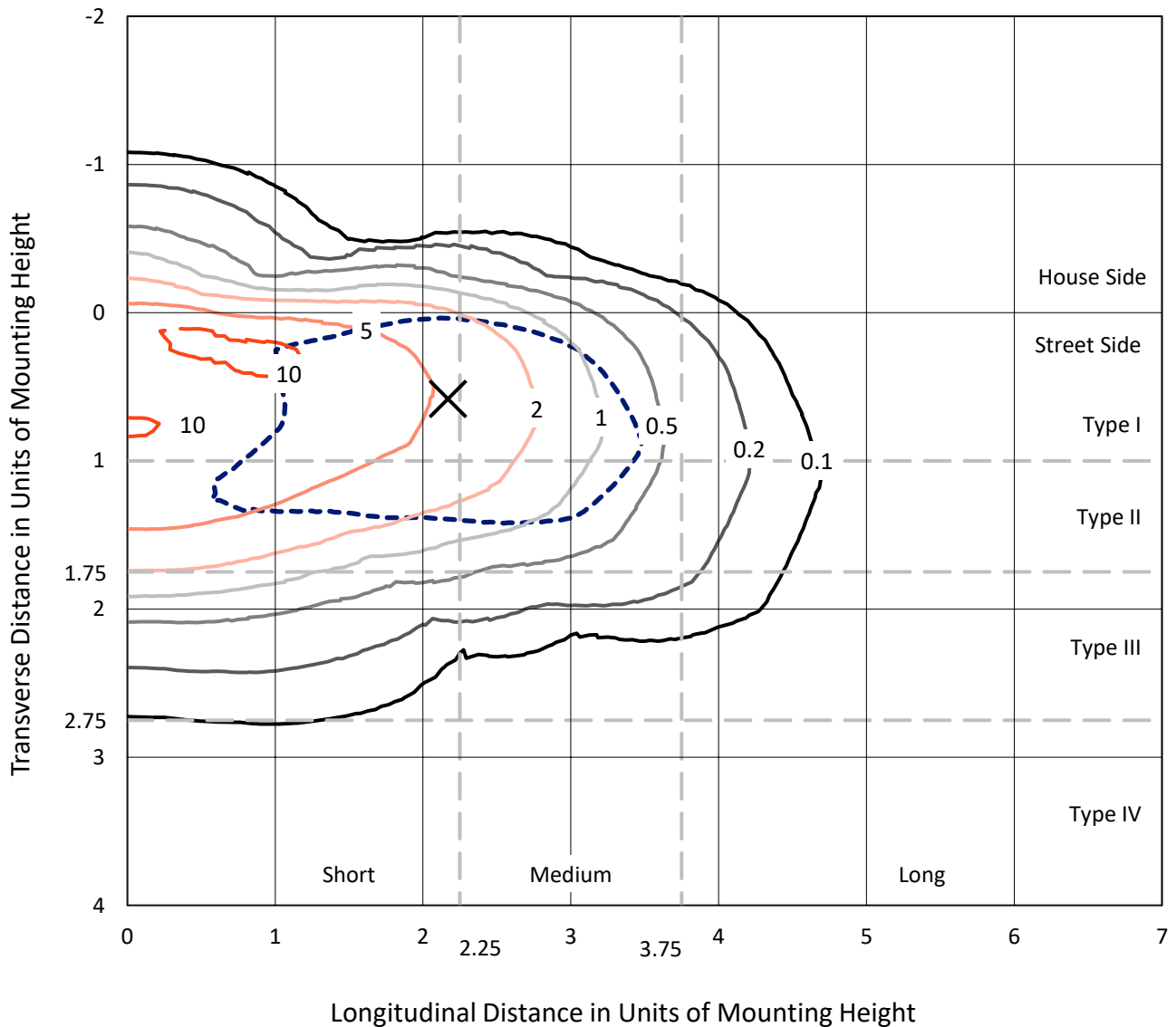
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

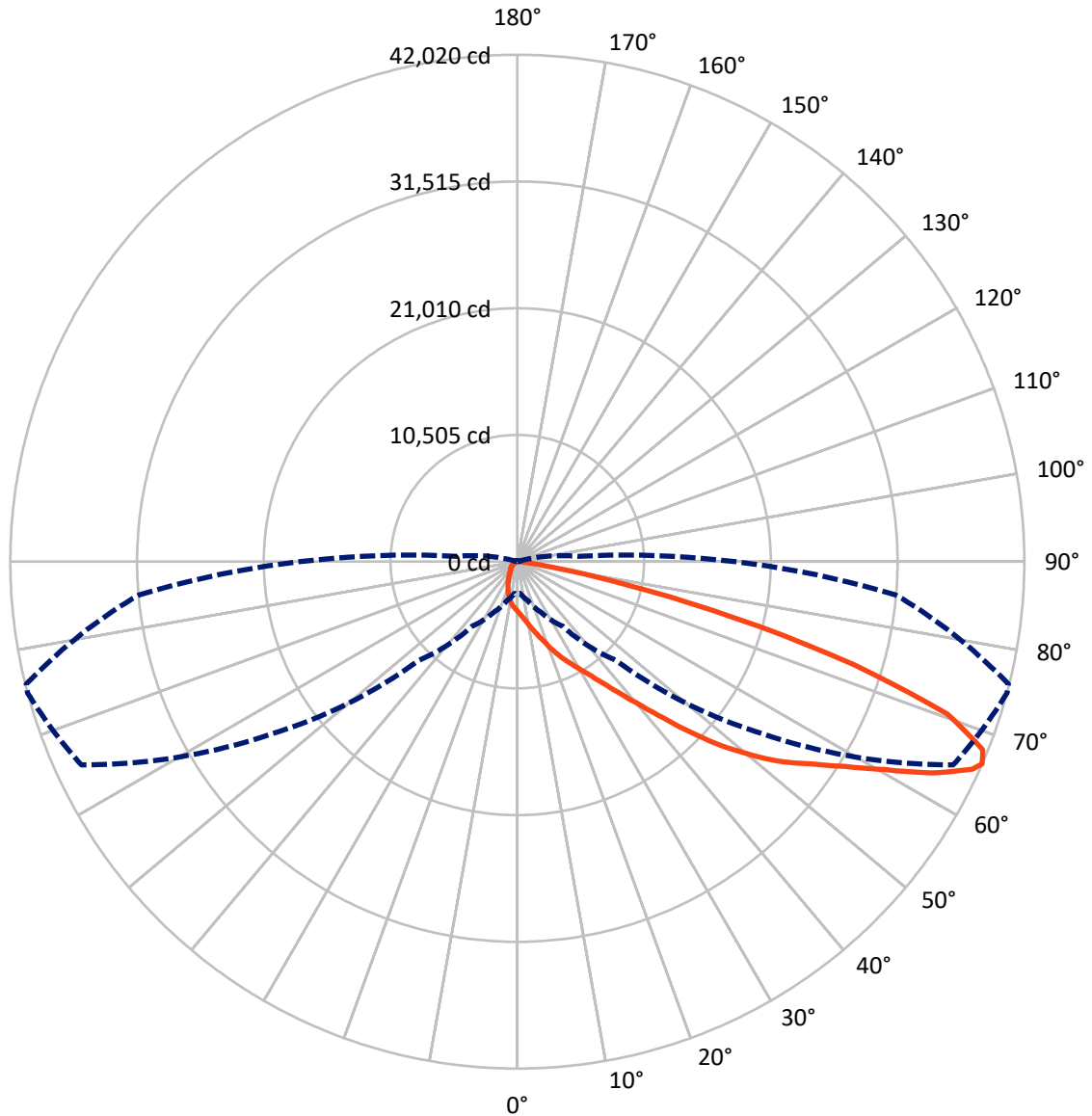
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2316.5	0.0	2316.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	35206.5	0.0	35206.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	37523.0	0.0	37523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	1.1
10°-20°	1164.8	3.1
20°-30°	2011.4	5.4
30°-40°	3628.2	9.7
40°-50°	6554.4	17.5
50°-60°	10218.3	27.2
60°-70°	9707.0	25.9
70°-80°	3637.9	9.7
80°-90°	205.2	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°	37523.0	100.0
0°-180°	37523.0	100.0

Coefficient of Utilization



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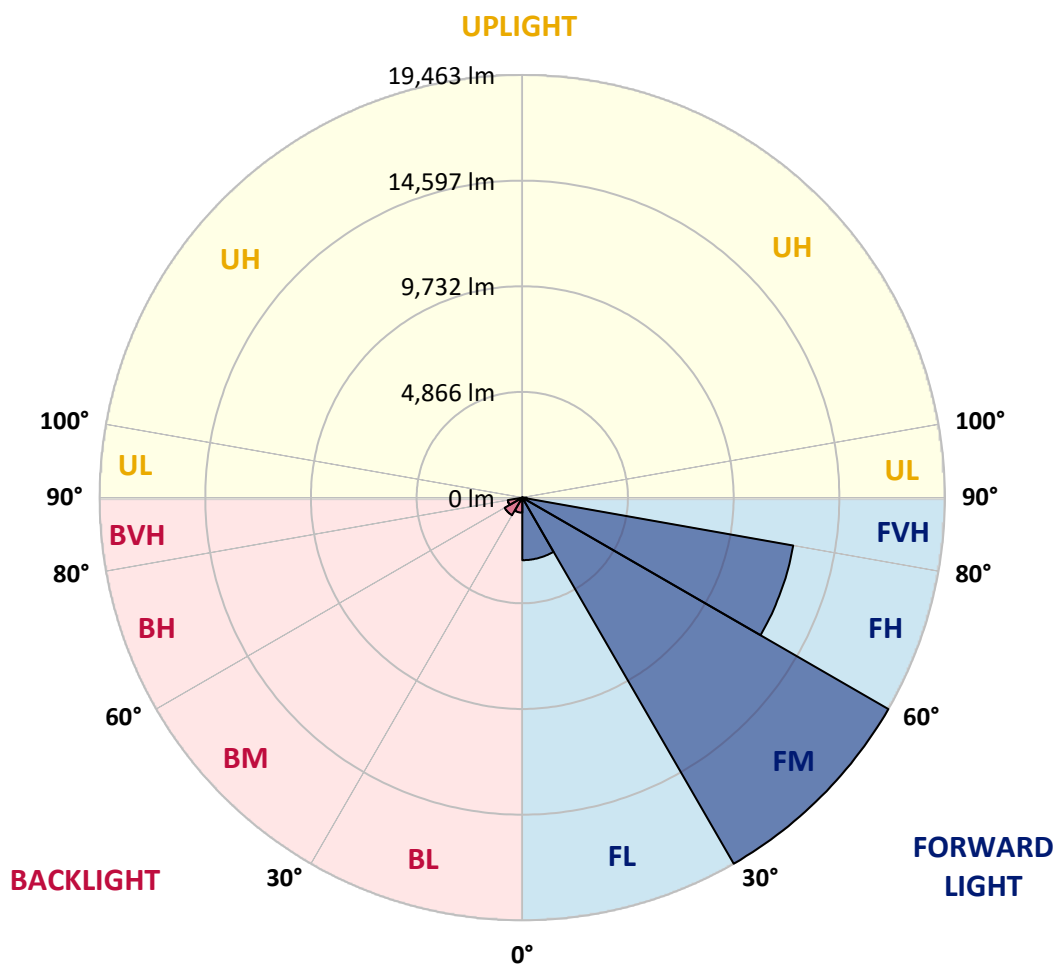
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.2	7.7			
FM (30°-60°)	19463.2	51.9			
FH (60°-80°)	12668.5	33.8			G5
FVH (80°-90°)	194.7	0.5			G2/225
BL (0°-30°)	691.8	1.8	B2/1000		
BM (30°-60°)	937.7	2.5	B1/1000		
BH (60°-80°)	676.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	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°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4902.6	4841.5	4861.0	4833.2	4769.4	4675.1	4591.8	4472.5	4353.2	4333.8	4200.6
5°	5549.0	5532.4	5510.2	5429.7	5385.3	5241.1	5069.0	4863.7	4616.8	4572.4	4331.0
7.5°	5990.2	5981.9	5993.0	5951.3	5912.5	5782.1	5599.0	5318.7	4935.9	4910.9	4508.6
10°	6134.5	6156.7	6198.3	6264.9	6325.9	6284.3	6145.6	5796.0	5349.3	5277.1	4711.1
12.5°	6051.2	6076.2	6176.1	6353.6	6550.6	6664.4	6608.9	6353.6	5787.6	5729.4	4938.6
15°	5837.6	5868.1	6009.6	6284.3	6636.6	6958.5	7097.2	6914.1	6298.2	6203.8	5213.3
17.5°	5521.3	5565.7	5768.2	6131.7	6614.4	7169.4	7560.6	7499.5	6842.0	6753.2	5513.0
20°	5282.7	5316.0	5488.0	5904.2	6520.1	7285.9	8001.7	8173.7	7513.4	7360.8	5865.3
22.5°	5440.8	5451.9	5510.2	5759.9	6350.9	7316.4	8390.1	8875.7	8226.4	8090.5	6231.6
25°	6214.9	6103.9	6045.7	5990.2	6314.8	7288.7	8742.5	9608.2	8936.7	8792.4	6595.0
27.5°	7435.7	7385.8	7091.7	6697.7	6622.8	7324.7	8975.6	10301.8	9605.4	9450.0	6950.2
30°	8764.7	8678.7	8498.3	7921.2	7341.4	7580.0	9144.8	10976.0	10396.1	10190.8	7274.8
32.5°	9985.5	10041.0	9771.8	9178.1	8506.7	8123.8	9364.0	11711.2	11303.4	11048.1	7652.1
35°	11408.8	11519.8	11106.4	10537.6	9752.4	9106.0	9791.3	12540.8	12454.8	12133.0	8234.8
37.5°	12854.3	12920.9	12668.4	11869.4	11161.9	10354.5	10595.9	13564.6	13872.6	13597.9	8931.2
40°	14069.6	14161.1	13975.2	13265.0	12510.3	11800.0	11764.0	14680.0	15559.5	15276.5	9968.8
42.5°	14999.0	15068.4	15074.0	14571.8	13892.0	13570.2	13253.9	16103.3	17673.7	17346.3	11173.0
45°	16172.7	16272.5	16214.3	15873.0	15365.3	15307.0	15143.3	17823.5	20204.0	19790.6	12735.0
47.5°	17987.2	18053.8	17909.5	17507.2	16991.1	17082.7	16985.6	19751.8	22784.3	22429.2	14352.6
50°	19246.8	19357.8	19563.1	19724.0	19349.5	19011.0	18722.4	21552.4	25234.2	24915.2	16006.2
52.5°	19233.0	19416.1	20065.3	20875.5	21694.0	21591.3	20761.7	23541.8	27573.2	27179.2	17559.9
55°	17937.3	18292.4	19246.8	20684.0	22950.8	24080.0	23702.7	25844.6	29593.0	29326.6	19360.6
57.5°	15262.6	15479.0	16805.3	18814.0	22248.9	25250.9	27109.8	28966.0	32015.2	31890.3	22157.3
60°	10265.7	10362.8	12069.1	14552.3	18941.6	24082.8	29606.9	32742.1	34997.8	34936.7	25422.9
62.5°	5882.0	5923.6	7161.0	9255.8	13478.6	20409.3	29817.7	37400.5	38574.1	38607.4	29201.8
65°	3165.7	3187.9	4186.7	5432.5	8201.5	14546.8	26812.9	39953.0	41465.2	41529.0	31543.5
66°	2732.9	2627.5	3332.2	4630.7	6525.7	11578.1	24912.4	39861.5	42020.1	41950.7	31460.3
67.5°	2078.1	2172.4	2660.8	3559.7	4836.0	8232.0	20567.5	38088.6	41598.3	41381.9	30181.2
70°	1487.1	1526.0	1895.0	2538.7	3293.4	4516.9	13142.9	31635.0	37808.3	37517.0	26294.1
72.5°	960.0	1001.6	1342.9	1836.7	2380.5	2466.5	7358.0	22856.5	29149.1	29107.5	19801.7
75°	685.3	724.1	887.8	1315.1	1789.6	1526.0	3543.1	15404.1	18531.0	18406.1	12249.5
77.5°	496.6	516.1	593.7	860.1	1279.1	1093.2	1642.5	8226.4	9225.3	9660.9	5413.1
80°	285.8	302.4	413.4	524.4	865.6	746.3	785.2	3301.7	3404.3	3240.6	1692.5
82.5°	141.5	160.9	246.9	357.9	541.0	502.2	360.7	993.3	1048.8	1021.0	427.3
85°	33.3	41.6	138.7	235.8	263.6	224.7	174.8	291.3	360.7	352.4	163.7
87.5°	2.8	5.5	49.9	41.6	44.4	74.9	61.0	74.9	116.5	108.2	58.3
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°	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5	4103.5
2.5°	4139.6	4086.9	3934.3	3784.4	3659.6	3529.2	3409.9	3340.5	3312.8	3282.3	3296.1
5°	4197.8	4070.2	3762.2	3495.9	3235.1	3013.1	2835.6	2721.8	2666.3	2658.0	2644.1
7.5°	4275.5	4056.3	3579.1	3162.9	2821.7	2574.8	2372.2	2208.5	2158.6	2114.2	2078.1
10°	4369.9	4031.4	3351.6	2813.4	2449.9	2139.2	1872.8	1678.6	1578.7	1551.0	1570.4
12.5°	4469.7	3984.2	3113.0	2491.5	2072.6	1675.8	1428.9	1331.8	1304.0	1292.9	1295.7
15°	4569.6	3925.9	2863.3	2180.8	1650.8	1337.3	1223.6	1198.6	1187.5	1181.9	1176.4
17.5°	4661.2	3831.6	2583.1	1878.3	1337.3	1143.1	1101.5	1079.3	1057.1	1048.8	1034.9
20°	4769.4	3723.4	2330.6	1539.9	1132.0	1034.9	985.0	943.3	910.0	887.8	885.1
22.5°	4872.1	3584.7	2067.0	1276.3	1032.1	929.5	849.0	804.6	765.8	738.0	746.3
25°	4927.5	3415.4	1831.2	1112.6	940.6	824.0	735.2	679.8	638.1	624.3	621.5
27.5°	4927.5	3207.3	1600.9	1018.2	857.3	729.7	638.1	585.4	557.7	538.3	541.0
30°	4888.7	2977.1	1387.3	946.1	785.2	646.5	560.5	513.3	491.1	477.2	474.4
32.5°	4858.2	2757.9	1204.1	876.7	710.3	574.3	499.4	463.3	441.1	427.3	427.3
35°	4905.3	2569.2	1062.6	807.4	640.9	518.8	452.2	419.0	396.8	385.7	382.9
37.5°	5030.2	2397.2	954.4	732.5	577.1	471.7	419.0	380.1	357.9	344.0	338.5
40°	5338.2	2300.1	874.0	663.1	516.1	432.8	380.1	344.0	316.3	302.4	299.6
42.5°	5832.0	2302.8	796.3	599.3	468.9	399.5	346.8	305.2	274.7	260.8	258.0
45°	6575.6	2408.3	735.2	538.3	427.3	363.5	310.7	266.4	238.6	224.7	224.7
47.5°	7466.2	2613.6	682.5	485.5	388.4	330.2	274.7	230.3	202.5	191.4	191.4
50°	8431.8	2879.9	629.8	430.1	355.1	294.1	235.8	199.8	177.6	169.2	169.2
52.5°	9416.7	3201.8	577.1	385.7	319.1	255.3	202.5	177.6	158.1	152.6	149.8
55°	10709.6	3612.4	521.6	338.5	280.2	219.2	180.3	155.4	133.2	124.9	122.1
57.5°	12699.0	4231.1	460.6	296.9	230.3	183.1	155.4	130.4	105.4	91.6	88.8
60°	15098.9	4985.8	396.8	260.8	185.9	149.8	124.9	99.9	77.7	61.0	58.3
62.5°	17346.3	5465.8	335.7	219.2	147.0	113.8	88.8	74.9	55.5	38.8	36.1
65°	18339.6	5304.9	277.5	177.6	116.5	80.5	58.3	52.7	33.3	16.6	13.9
66°	18009.4	5066.3	255.3	160.9	105.4	69.4	49.9	44.4	25.0	8.3	8.3
67.5°	17035.5	4503.0	222.0	138.7	91.6	55.5	38.8	33.3	13.9	2.8	0.0
70°	14596.7	3642.9	174.8	102.7	66.6	38.8	22.2	16.6	8.3	0.0	0.0
72.5°	11211.8	2713.5	138.7	77.7	47.2	22.2	11.1	5.5	8.3	0.0	0.0
75°	6869.7	1551.0	108.2	58.3	30.5	13.9	8.3	0.0	8.3	2.8	0.0
77.5°	3049.2	696.4	72.1	38.8	22.2	11.1	5.5	0.0	5.5	2.8	0.0
80°	771.3	227.5	41.6	27.7	16.6	8.3	2.8	0.0	5.5	5.5	2.8
82.5°	210.9	83.2	30.5	22.2	13.9	8.3	2.8	0.0	5.5	5.5	5.5
85°	83.2	38.8	27.7	22.2	16.6	8.3	2.8	0.0	5.5	5.5	5.5
87.5°	38.8	27.7	27.7	25.0	19.4	8.3	2.8	0.0	5.5	2.8	5.5
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)