

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: P458105

Luminaire Tested: **GALN-SA9C-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38559 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

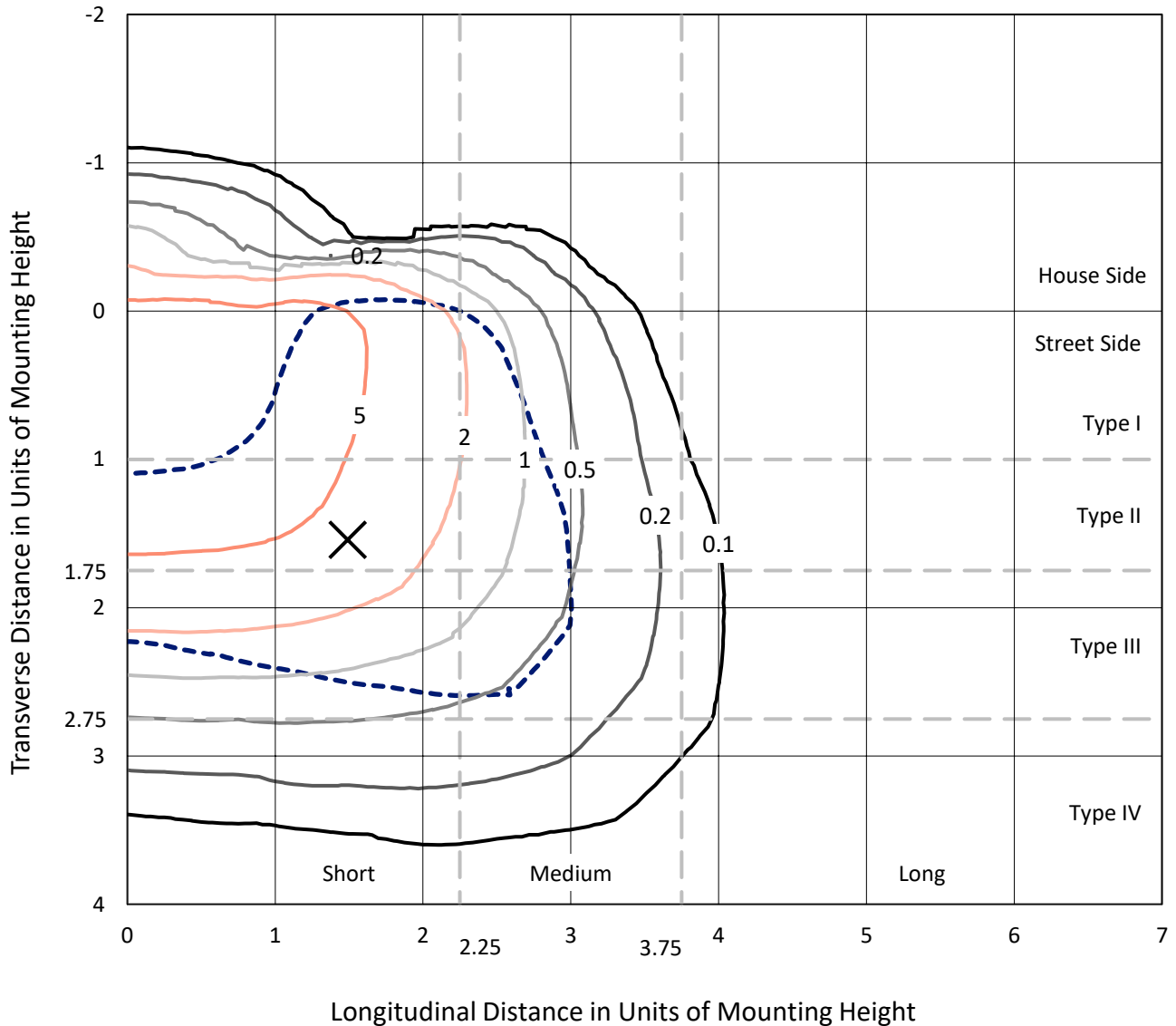
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

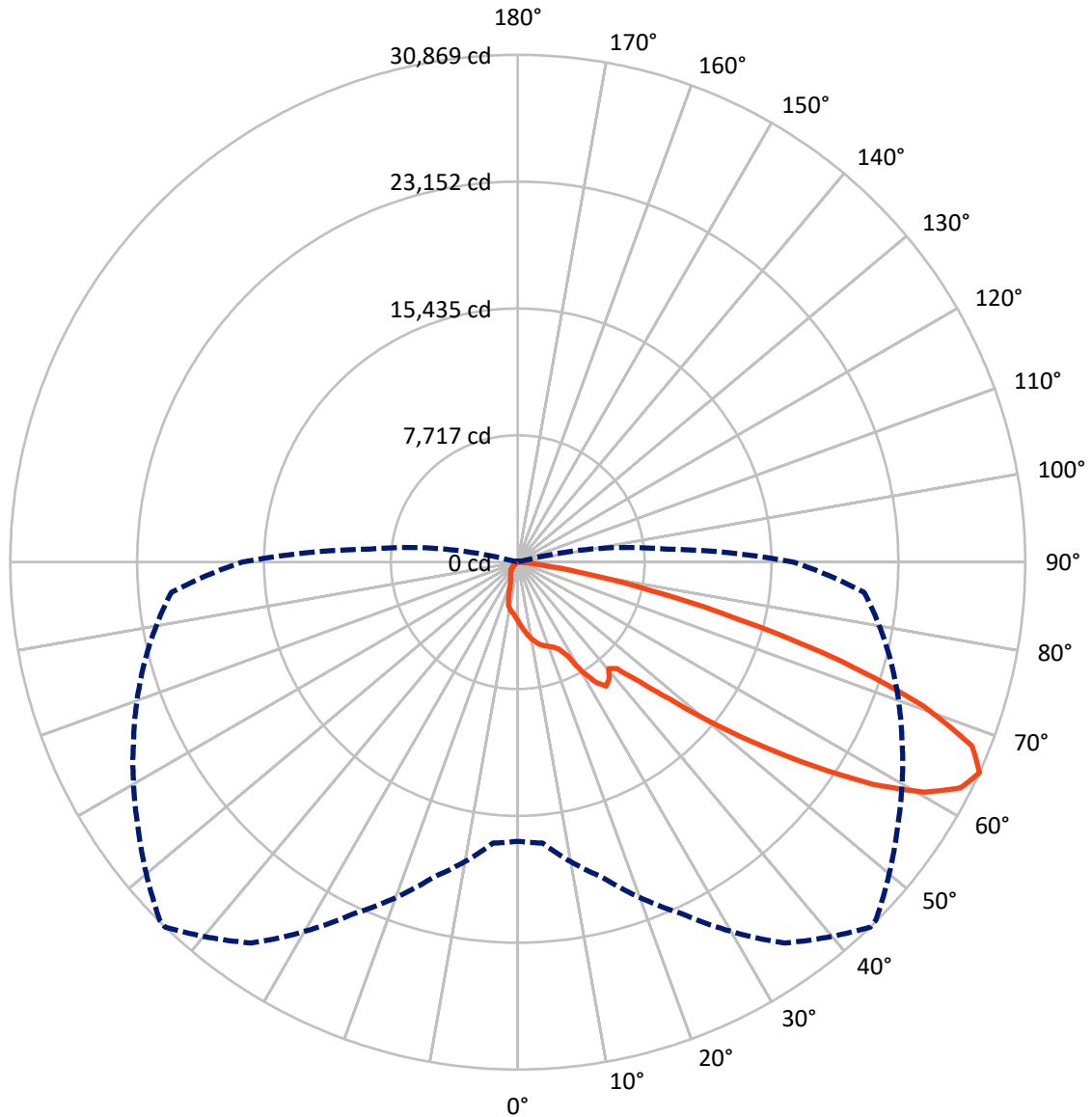
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3552.6	0.0	3552.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	35006.4	0.0	35006.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	38559.0	0.0	38559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	0.9
10°-20°	1074.2	2.8
20°-30°	1821.5	4.7
30°-40°	3028.6	7.9
40°-50°	5288.0	13.7
50°-60°	10330.9	26.8
60°-70°	11986.3	31.1
70°-80°	4364.8	11.3
80°-90°	307.5	0.8
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°	38559.0	100.0
0°-180°	38559.0	100.0

Coefficient of Utilization



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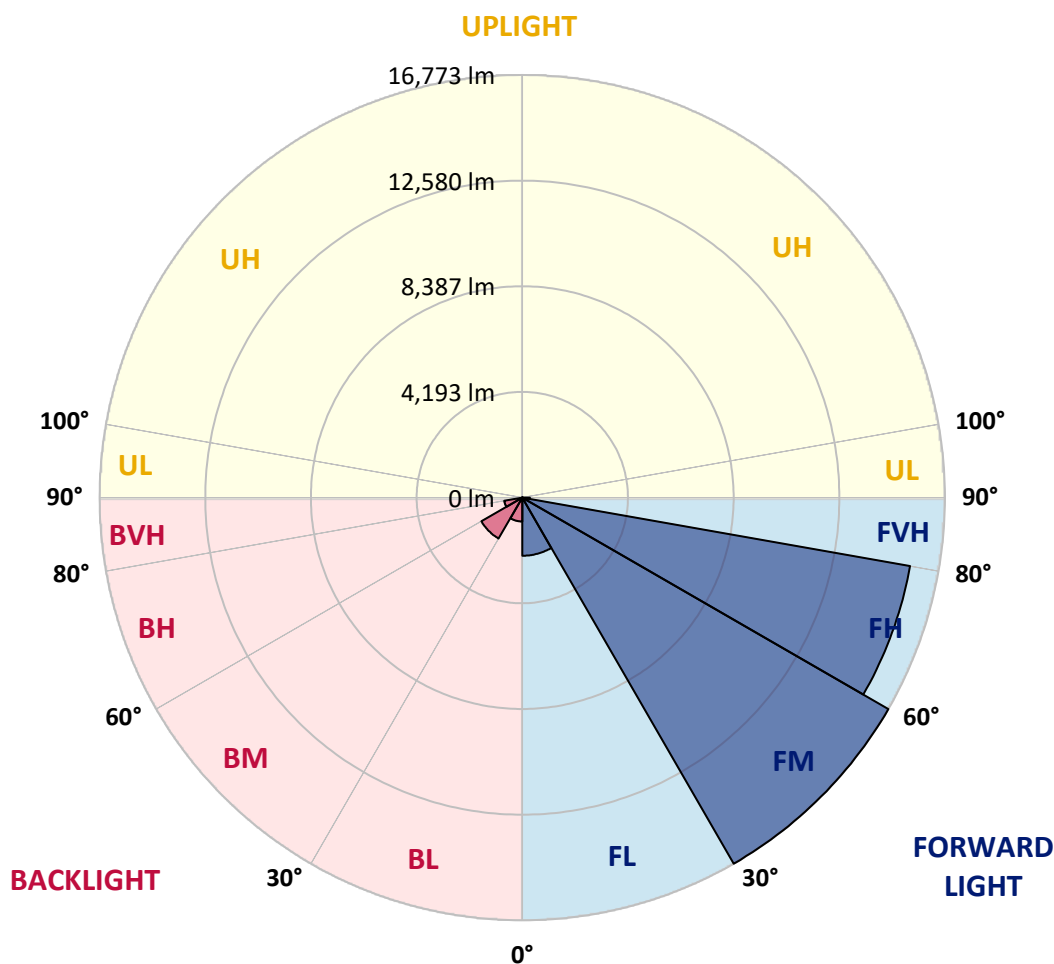
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2306.2	6.0			
FM	(30°-60°)	16773.2	43.5			
FH	(60°-80°)	15623.6	40.5			G5
FVH	(80°-90°)	303.4	0.8			G3/500
BL	(0°-30°)	946.5	2.5	B2/1000		
BM	(30°-60°)	1874.4	4.9	B2/2500		
BH	(60°-80°)	727.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7
2.5°	4039.5	4021.8	4013.0	3965.8	3930.5	3886.3	3886.3	3830.3	3765.5	3694.8	3629.9
5°	4490.3	4460.8	4422.5	4381.3	4298.8	4180.9	4180.9	4063.1	3927.5	3806.7	3674.1
7.5°	4923.4	4896.9	4832.1	4752.5	4617.0	4493.2	4484.4	4313.5	4151.5	3968.8	3780.2
10°	5303.5	5282.9	5226.9	5073.7	4932.2	4770.2	4767.2	4575.7	4387.2	4163.2	3930.5
12.5°	5568.7	5571.6	5497.9	5350.6	5168.0	5014.7	5003.0	4814.4	4617.0	4375.4	4089.6
15°	5757.2	5757.2	5680.6	5515.6	5350.6	5215.1	5203.3	5038.3	4835.0	4572.8	4263.4
17.5°	5810.3	5827.9	5745.4	5598.1	5465.5	5347.7	5344.7	5206.3	5044.2	4790.8	4440.2
20°	5789.6	5807.3	5742.5	5627.6	5536.3	5468.5	5459.6	5403.7	5253.4	5014.7	4628.8
22.5°	5745.4	5763.1	5716.0	5648.2	5604.0	5624.6	5609.9	5657.1	5577.5	5288.8	4852.7
25°	5754.3	5772.0	5736.6	5698.3	5736.6	5863.3	5901.6	6104.9	6034.2	5636.4	5094.3
27.5°	6031.2	6066.6	6016.5	6034.2	6169.7	6464.4	6538.0	6888.6	6576.3	6078.4	5471.4
30°	6647.0	6623.5	6529.2	6614.6	7086.0	7710.7	7690.1	7634.1	7145.0	6588.1	5919.3
32.5°	7206.8	7186.2	7180.3	7548.6	8403.1	8706.6	8691.8	8149.7	7654.7	7171.5	6361.2
35°	7433.7	7354.2	7336.5	8229.2	9658.2	9257.5	9166.2	8361.8	8273.4	7807.9	6812.0
37.5°	8117.3	8061.3	7787.3	8341.2	9157.4	9024.8	8954.1	8727.2	8933.4	8370.7	7321.8
40°	9525.7	9369.5	9122.0	8579.9	8447.3	8503.3	8574.0	9195.7	9714.2	9139.7	8002.4
42.5°	11275.8	11240.4	10780.8	9770.2	8777.3	8853.9	8945.2	10173.9	10836.8	10297.6	9113.2
45°	13376.6	13426.7	12763.7	11570.4	10268.1	10333.0	10465.5	11617.6	12357.1	12097.8	10860.4
47.5°	15285.8	15247.5	15023.6	13783.2	12581.1	12436.7	12651.8	13470.9	14460.8	14502.1	13028.9
50°	17206.9	17410.2	17077.2	16591.1	15698.3	15394.8	15315.3	15716.0	17224.5	17027.1	15633.5
52.5°	19967.6	20073.7	19449.1	19325.3	19528.6	18544.5	18465.0	18562.2	19911.6	19234.0	17584.0
55°	21703.0	21641.2	21408.4	22374.8	23179.2	21950.5	21850.4	21458.5	22142.1	20792.6	19460.9
57.5°	22251.1	22339.5	22881.6	24628.8	26532.2	25489.1	25306.5	24192.7	23750.8	22245.2	21187.4
60°	22006.5	22168.6	23338.3	25937.0	28577.0	28420.8	28264.6	26393.7	24905.8	23459.1	22398.4
62.5°	20265.2	20492.1	22363.0	25704.2	29269.4	30244.6	30050.1	27766.7	25674.8	24048.4	22610.5
65°	16982.9	17150.9	19838.0	23591.7	28285.3	30869.2	30798.5	28196.9	25795.6	23509.2	21158.0
67.5°	12106.7	12678.3	15168.0	19882.2	25374.2	29802.7	29923.5	27681.3	24661.2	21178.6	17522.1
70°	7610.5	7999.4	9784.9	14234.0	20341.8	26146.2	26544.0	25321.2	21402.5	16508.6	11729.5
72.5°	3629.9	3918.7	5191.5	9010.0	14357.7	20571.6	20886.9	20786.7	16549.8	10400.7	6051.9
75°	1617.6	1726.6	2477.9	4599.3	9269.3	13827.4	14643.5	14779.1	10341.8	5088.4	2354.2
77.5°	825.0	827.9	1160.9	2227.5	4628.8	8249.9	8411.9	8886.3	5607.0	2242.2	819.1
80°	439.0	468.5	615.8	1051.9	2401.3	4063.1	4042.4	4443.1	2486.7	1099.0	274.0
82.5°	197.4	218.0	347.7	551.0	1172.7	1541.0	1661.8	1817.9	1066.6	701.2	120.8
85°	58.9	70.7	170.9	277.0	424.3	444.9	497.9	642.3	604.0	497.9	61.9
87.5°	8.8	8.8	70.7	76.6	61.9	79.6	82.5	91.3	194.5	182.7	32.4
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°	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7	3588.7
2.5°	3594.6	3574.0	3500.3	3438.4	3385.4	3353.0	3314.7	3291.1	3279.3	3270.5	3273.4
5°	3609.3	3559.2	3432.5	3332.4	3255.8	3173.3	3117.3	3084.9	3070.1	3046.6	3046.6
7.5°	3691.8	3612.3	3435.5	3282.3	3149.7	3037.7	2931.6	2893.3	2866.8	2860.9	2855.0
10°	3809.7	3709.5	3467.9	3255.8	3067.2	2914.0	2763.7	2631.1	2528.0	2466.1	2457.3
12.5°	3957.0	3812.6	3518.0	3238.1	2996.5	2725.4	2327.6	2059.5	1879.8	1823.8	1832.6
15°	4092.5	3936.4	3568.1	3223.3	2866.8	2259.9	1809.1	1502.7	1411.3	1402.5	1405.4
17.5°	4254.6	4069.0	3627.0	3202.7	2510.3	1726.6	1343.6	1261.1	1278.7	1308.2	1305.2
20°	4422.5	4210.4	3697.7	3079.0	2003.5	1299.4	1187.4	1196.2	1222.7	1249.3	1255.2
22.5°	4602.2	4372.4	3780.2	2781.4	1529.2	1131.4	1125.5	1137.3	1163.8	1193.3	1199.2
25°	4849.7	4575.7	3842.1	2392.5	1157.9	1046.0	1057.8	1078.4	1101.9	1134.4	1140.2
27.5°	5168.0	4849.7	3874.5	1885.7	1001.8	969.4	972.3	1001.8	1031.2	1060.7	1060.7
30°	5580.4	5176.8	3809.7	1426.0	925.2	895.7	883.9	901.6	939.9	969.4	972.3
32.5°	5948.7	5486.2	3638.8	1090.2	869.2	827.9	798.5	801.4	816.1	833.8	836.8
35°	6317.0	5786.7	3347.1	916.3	810.3	763.1	718.9	695.3	683.6	674.7	683.6
37.5°	6788.5	6160.9	2958.2	833.8	760.2	701.2	639.4	589.3	548.0	521.5	527.4
40°	7395.4	6679.4	2498.5	780.8	713.0	642.3	559.8	495.0	424.3	400.7	388.9
42.5°	8397.2	7466.1	2015.3	736.6	665.9	580.4	477.3	388.9	324.1	300.5	306.4
45°	9979.4	8459.1	1552.7	689.5	618.7	512.7	400.7	306.4	253.4	241.6	247.5
47.5°	12077.2	9743.7	1196.2	636.4	559.8	439.0	315.3	241.6	209.2	206.2	203.3
50°	14051.3	10939.9	998.8	577.5	489.1	365.4	259.3	203.3	182.7	179.7	179.7
52.5°	15836.8	11797.3	813.2	509.7	412.5	300.5	218.0	179.7	162.1	153.2	153.2
55°	17424.9	12357.1	660.0	427.2	324.1	238.7	188.6	162.1	141.4	129.6	126.7
57.5°	18624.1	12424.9	495.0	341.8	241.6	185.6	162.1	141.4	117.9	103.1	97.2
60°	19136.7	11838.6	365.4	259.3	179.7	147.3	129.6	114.9	88.4	73.7	70.7
62.5°	18621.1	10698.3	271.1	197.4	138.5	109.0	91.3	85.4	61.9	44.2	41.2
65°	16773.8	9051.3	215.1	150.3	103.1	79.6	58.9	56.0	38.3	20.6	17.7
67.5°	13438.4	7089.0	170.9	112.0	73.7	53.0	38.3	35.4	20.6	5.9	5.9
70°	8739.0	4531.5	138.5	82.5	47.1	35.4	23.6	17.7	11.8	2.9	0.0
72.5°	4322.3	2118.4	112.0	64.8	32.4	17.7	8.8	5.9	8.8	0.0	0.0
75°	1676.5	754.3	82.5	44.2	17.7	8.8	5.9	0.0	2.9	0.0	0.0
77.5°	556.9	250.4	50.1	23.6	11.8	5.9	0.0	0.0	0.0	0.0	0.0
80°	206.2	97.2	26.5	14.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	82.5	38.3	17.7	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.2	23.6	11.8	8.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.5	17.7	11.8	8.8	5.9	2.9	0.0	0.0	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)