

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: P456243

Luminaire Tested: **GALN-SA7C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30067 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

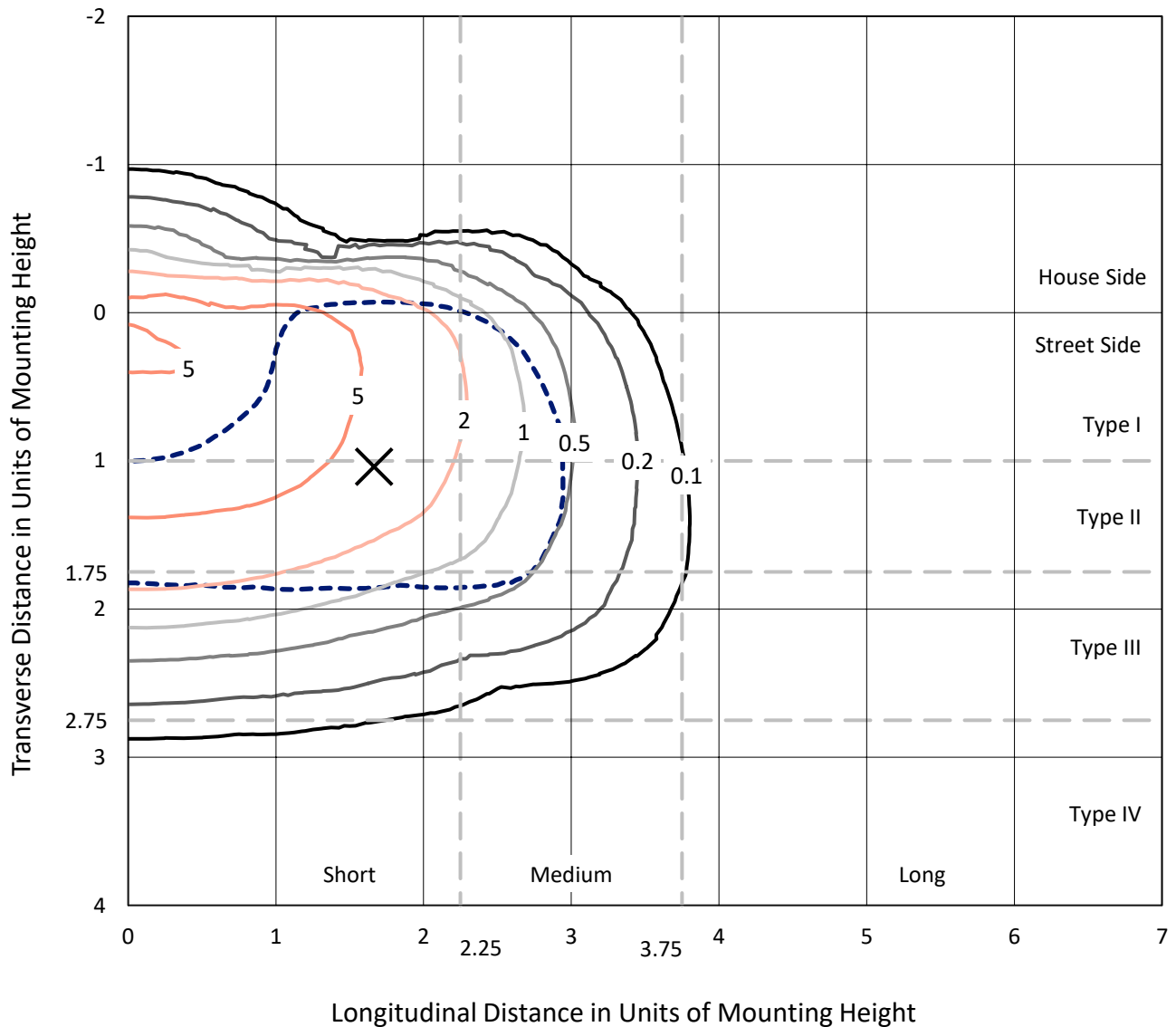
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

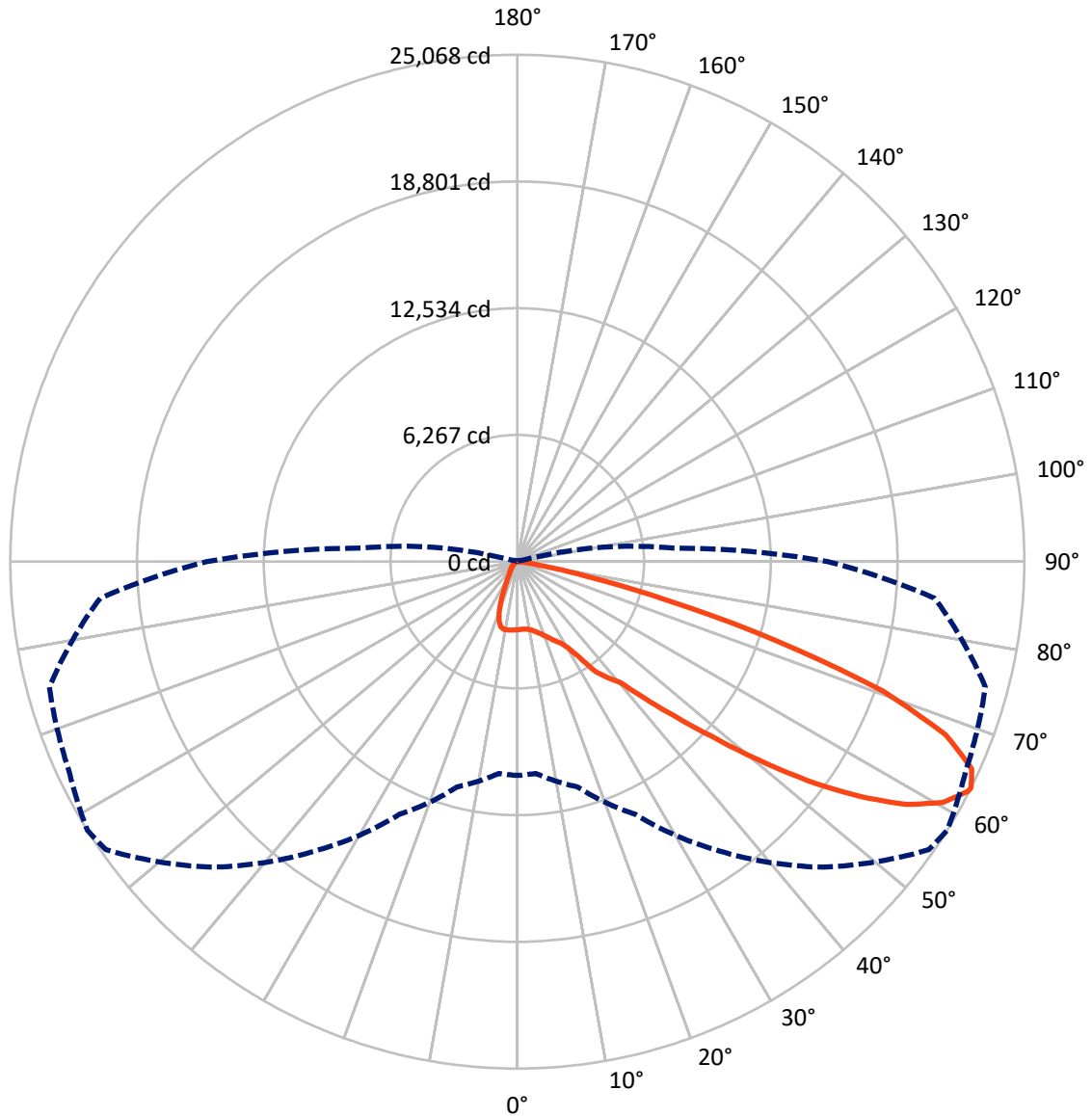
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3113.3	0.0	3113.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	26953.8	0.0	26953.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	30067.0	0.0	30067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	1.0
10°-20°	858.3	2.9
20°-30°	1489.5	5.0
30°-40°	2737.2	9.1
40°-50°	5152.7	17.1
50°-60°	8813.4	29.3
60°-70°	8438.8	28.1
70°-80°	2151.9	7.2
80°-90°	110.0	0.4
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°	30067.0	100.0
0°-180°	30067.0	100.0



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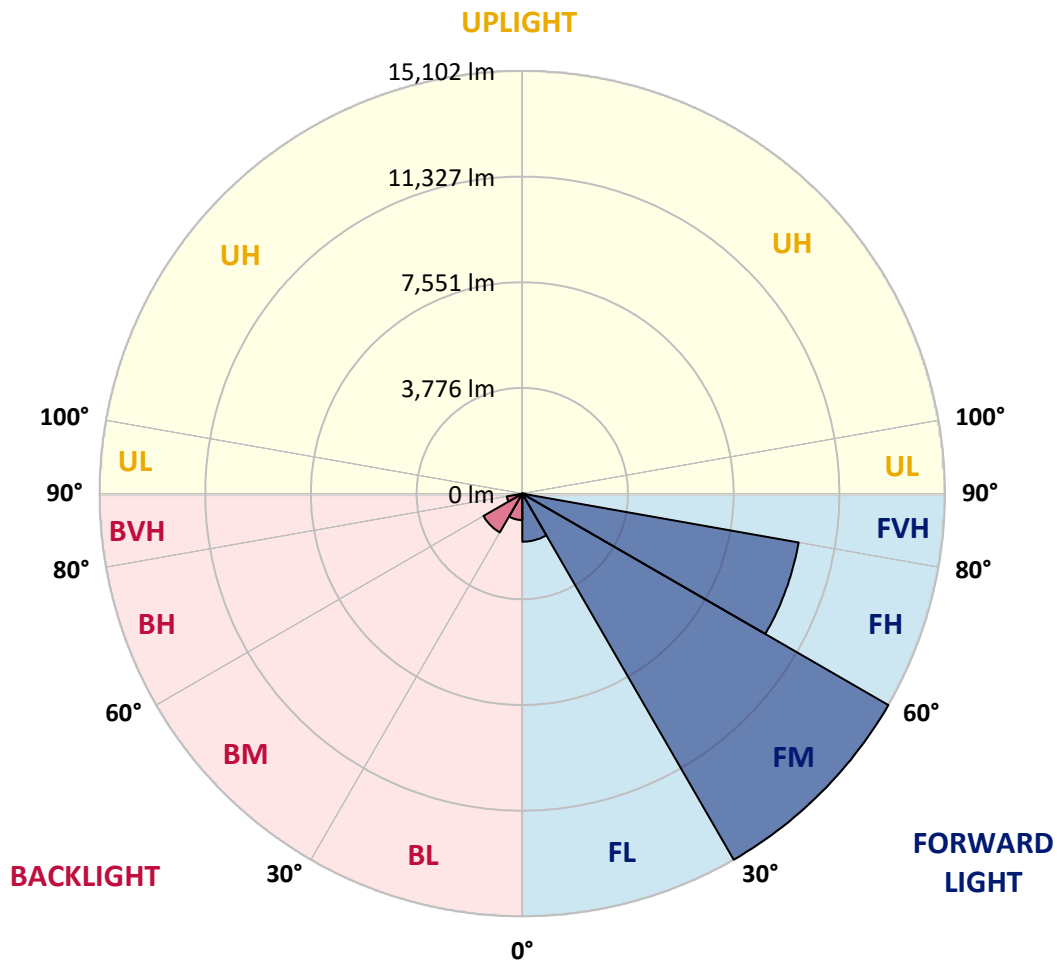
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.8	5.7			
FM (30°-60°)	15102.1	50.2			
FH (60°-80°)	10027.2	33.3			G4/12000
FVH (80°-90°)	105.8	0.4			G2/225
BL (0°-30°)	944.2	3.1	B2/1000		
BM (30°-60°)	1601.3	5.3	B2/2500		
BH (60°-80°)	563.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1
2.5°	3282.4	3293.7	3305.0	3309.5	3325.4	3341.2	3352.5	3350.3	3368.4	3377.4	3377.4
5°	3151.1	3151.1	3180.5	3207.7	3252.9	3298.2	3341.2	3350.3	3384.2	3415.9	3427.2
7.5°	3040.1	3046.9	3069.6	3119.4	3180.5	3259.7	3345.7	3366.1	3425.0	3495.1	3524.6
10°	2988.1	2992.6	3022.0	3074.1	3151.1	3259.7	3379.7	3418.2	3508.7	3619.7	3660.4
12.5°	2976.8	2983.6	3013.0	3071.8	3160.1	3291.4	3454.4	3495.1	3626.4	3769.1	3830.2
15°	2997.1	3001.7	3031.1	3094.5	3191.8	3348.0	3554.0	3610.6	3766.8	3932.0	4011.3
17.5°	3069.6	3065.0	3085.4	3137.5	3246.1	3418.2	3674.0	3741.9	3925.3	4151.6	4203.7
20°	3377.4	3348.0	3329.9	3284.6	3327.6	3517.8	3818.9	3918.5	4144.8	4375.7	4411.9
22.5°	4040.7	3975.1	3846.0	3669.5	3533.6	3653.6	3993.2	4108.6	4400.6	4627.0	4627.0
25°	4885.1	4801.3	4672.3	4287.4	3954.7	3877.7	4190.1	4335.0	4679.1	4907.7	4833.0
27.5°	5942.2	5876.6	5625.3	5177.1	4667.7	4269.3	4418.7	4552.3	4925.8	5202.0	5045.8
30°	6802.4	6770.7	6564.7	6164.0	5602.6	5020.9	4844.3	4932.6	5254.0	5573.2	5412.5
32.5°	7529.1	7529.1	7318.5	6945.0	6419.8	5903.7	5566.4	5629.8	5937.7	6306.7	6007.9
35°	8328.1	8301.0	8131.2	7775.8	7187.2	6732.2	6594.1	6680.2	6958.6	7232.5	6496.8
37.5°	9168.0	9158.9	8982.3	8638.3	8158.4	7585.6	7261.9	7284.6	7427.2	7594.7	7069.5
40°	10080.2	10093.8	9862.9	9650.1	9197.4	8611.1	7990.8	7848.2	7981.8	8454.9	8126.7
42.5°	11157.8	11126.1	11026.5	10736.7	10372.3	10021.4	9276.6	9224.6	9342.3	9849.3	9493.9
45°	12409.6	12454.9	12282.8	12122.1	11877.6	11585.6	10963.1	10872.5	11001.6	11789.3	11284.5
47.5°	13663.7	13620.7	13731.6	13702.2	13833.5	13616.1	13066.1	12880.4	13190.6	13937.6	13195.1
50°	14619.0	14666.5	14897.4	15234.7	15798.3	15920.6	15393.1	15329.8	15467.8	15947.7	14904.2
52.5°	15239.2	15397.7	15759.9	16626.9	17643.3	18433.3	18032.6	17998.7	17942.1	18071.1	16538.6
55°	15644.4	15805.1	16278.2	17555.0	19304.8	20588.3	20608.7	20463.8	20090.3	19997.5	18066.6
57.5°	15395.4	15427.1	16101.7	17808.5	20226.1	22125.4	22790.9	22646.0	21955.6	21604.7	19415.7
60°	13838.0	13903.6	14843.1	16848.7	19825.5	22627.9	24237.4	24171.8	23415.7	23019.5	20466.1
62.5°	11078.5	11268.7	12235.3	14471.8	17962.4	21781.3	24823.7	25009.3	24420.8	23875.2	20796.6
63°	10571.5	10510.3	11531.3	13779.1	17468.9	21362.5	24832.8	25068.2	24466.0	23956.7	20706.0
65°	7825.6	8009.0	8672.2	10865.7	14537.5	19413.5	24273.6	24690.1	24298.5	23596.8	19703.2
67.5°	4393.8	4384.8	5118.2	7110.3	10175.3	15227.9	21948.8	22829.4	22747.9	21174.6	16332.6
70°	2150.5	2184.5	2485.5	3685.3	5901.5	10505.8	18238.6	19189.4	19218.8	16631.4	11293.6
72.5°	973.4	989.2	1204.3	1795.1	3033.4	5593.6	12568.0	13475.8	13308.3	10598.6	6236.5
75°	513.9	547.8	663.3	903.2	1462.3	2306.7	6836.4	7714.7	7363.8	4842.0	2295.4
77.5°	380.3	391.6	450.5	575.0	783.2	898.7	2949.6	3508.7	3286.9	1752.1	760.6
80°	278.4	287.5	335.0	407.5	493.5	457.3	1111.5	1274.5	1143.2	595.4	233.2
82.5°	169.8	172.0	244.5	303.3	310.1	255.8	366.7	393.9	412.0	335.0	126.8
85°	61.1	77.0	165.2	219.6	183.4	129.0	153.9	169.8	185.6	212.8	74.7
87.5°	6.8	9.1	79.2	106.4	52.1	47.5	56.6	63.4	67.9	79.2	36.2
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°	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1	3366.1
2.5°	3386.5	3395.5	3388.8	3377.4	3375.2	3368.4	3354.8	3354.8	3354.8	3359.3	3354.8
5°	3436.3	3443.1	3427.2	3404.6	3379.7	3348.0	3314.1	3293.7	3291.4	3286.9	3275.6
7.5°	3531.4	3540.4	3504.2	3449.9	3382.0	3305.0	3232.6	3164.6	3133.0	3108.1	3108.1
10°	3669.5	3678.5	3606.1	3508.7	3372.9	3216.7	3044.7	2888.5	2766.2	2709.6	2696.1
12.5°	3834.7	3839.2	3719.3	3549.5	3325.4	3024.3	2657.6	2315.8	2078.1	1969.4	1958.1
15°	4015.8	3984.1	3825.6	3565.3	3189.5	2628.2	1994.3	1575.5	1328.8	1256.4	1283.5
17.5°	4199.2	4140.3	3907.1	3540.4	2883.9	1994.3	1340.1	1075.3	998.3	977.9	977.9
20°	4371.2	4289.7	3966.0	3431.8	2354.2	1374.1	993.8	930.4	916.8	903.2	905.5
22.5°	4543.2	4418.7	4018.1	3189.5	1754.4	982.4	889.6	869.3	851.1	833.0	830.8
25°	4710.8	4538.7	4038.4	2741.3	1195.2	844.4	812.7	785.5	749.3	728.9	724.4
27.5°	4885.1	4683.6	4024.9	2175.4	871.5	756.1	724.4	685.9	642.9	606.7	606.7
30°	5220.1	4959.8	3977.3	1564.2	733.4	665.5	624.8	563.7	516.1	479.9	477.6
32.5°	5677.4	5319.7	3814.3	1100.2	651.9	586.3	525.2	457.3	407.5	380.3	380.3
35°	6084.8	5681.9	3508.7	810.4	586.3	509.3	434.6	369.0	330.5	312.4	305.6
37.5°	6705.1	6211.6	3087.7	658.7	522.9	441.4	364.5	303.3	271.6	258.1	258.1
40°	7635.4	6859.0	2571.6	577.2	461.8	375.8	303.3	255.8	230.9	215.1	215.1
42.5°	8789.9	7651.3	2048.6	518.4	405.2	323.7	253.5	217.3	194.7	183.4	181.1
45°	10243.2	8486.6	1577.8	464.1	359.9	276.2	215.1	183.4	160.7	153.9	156.2
47.5°	11759.9	9222.3	1222.4	416.5	312.4	233.2	183.4	158.5	142.6	133.6	133.6
50°	13054.7	9729.4	928.1	362.2	276.2	196.9	160.7	142.6	129.0	124.5	122.2
52.5°	14136.8	9876.5	710.8	314.7	242.2	169.8	142.6	129.0	117.7	110.9	110.9
55°	15058.1	9747.5	556.9	264.9	203.7	147.1	126.8	115.4	101.9	95.1	92.8
57.5°	15596.9	9333.2	425.6	219.6	165.2	122.2	110.9	97.3	81.5	70.2	70.2
60°	15868.5	8731.1	326.0	181.1	126.8	97.3	90.5	72.4	56.6	47.5	45.3
62.5°	15542.5	7932.0	246.7	142.6	95.1	72.4	61.1	52.1	36.2	27.2	27.2
63°	15341.1	7701.1	237.7	135.8	88.3	67.9	56.6	47.5	31.7	24.9	22.6
65°	13985.1	6693.8	194.7	108.7	70.2	47.5	38.5	34.0	22.6	11.3	9.1
67.5°	11105.7	5120.5	153.9	81.5	49.8	34.0	22.6	20.4	6.8	0.0	0.0
70°	7508.7	3307.3	120.0	58.9	34.0	20.4	11.3	9.1	2.3	0.0	0.0
72.5°	3916.2	1695.5	92.8	43.0	20.4	13.6	6.8	2.3	0.0	0.0	0.0
75°	1385.4	577.2	67.9	27.2	13.6	6.8	2.3	0.0	0.0	0.0	0.0
77.5°	418.8	215.1	43.0	20.4	9.1	4.5	0.0	0.0	0.0	0.0	0.0
80°	147.1	79.2	24.9	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	72.4	38.5	15.8	11.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
85°	40.7	24.9	13.6	11.3	6.8	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	29.4	18.1	13.6	11.3	9.1	4.5	2.3	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)