

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: P457171

Luminaire Tested: **GALN-SA8C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457171
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-SA8C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34858 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

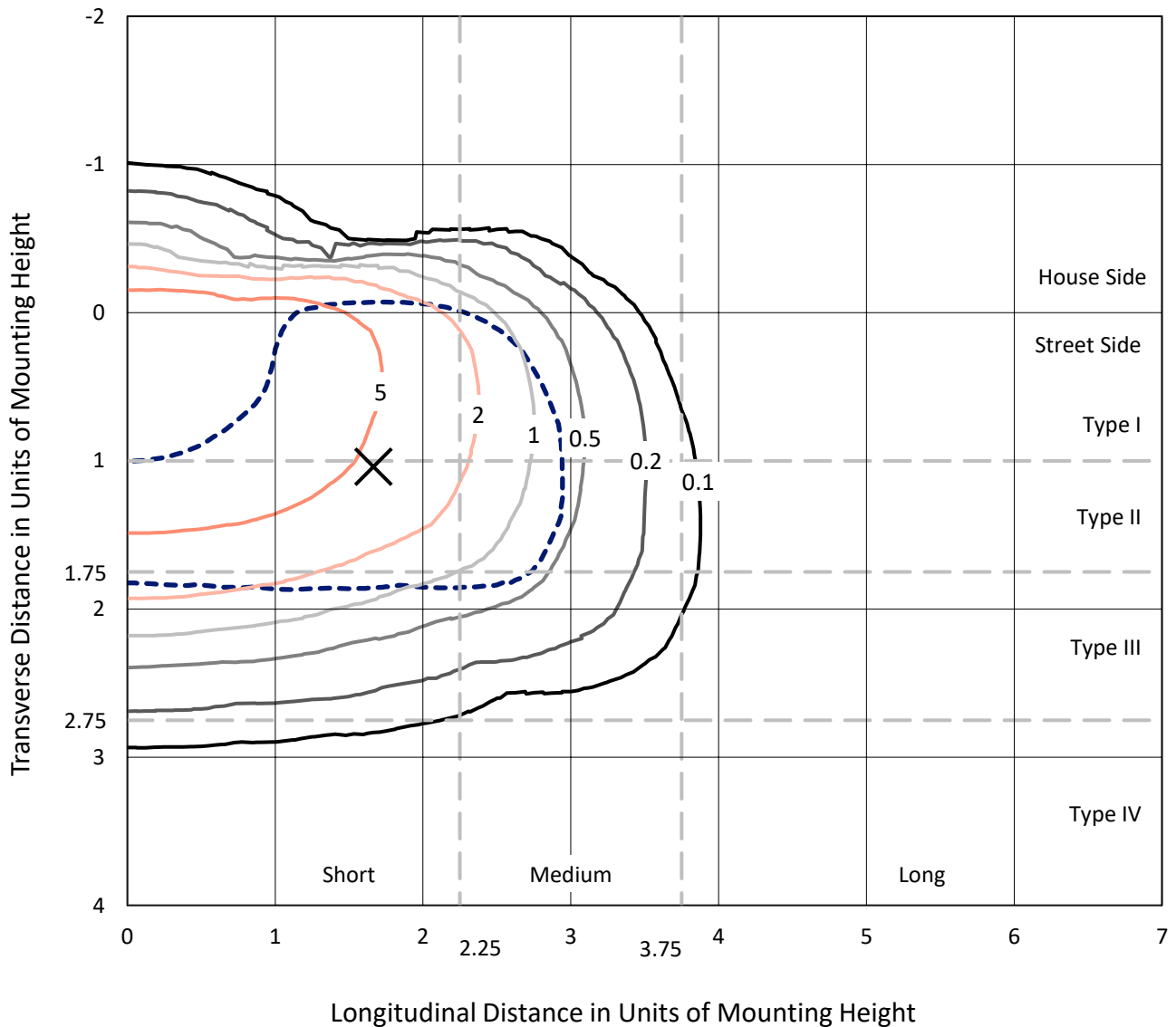
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457171
 CATALOG NUMBER: GALN-SA8C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

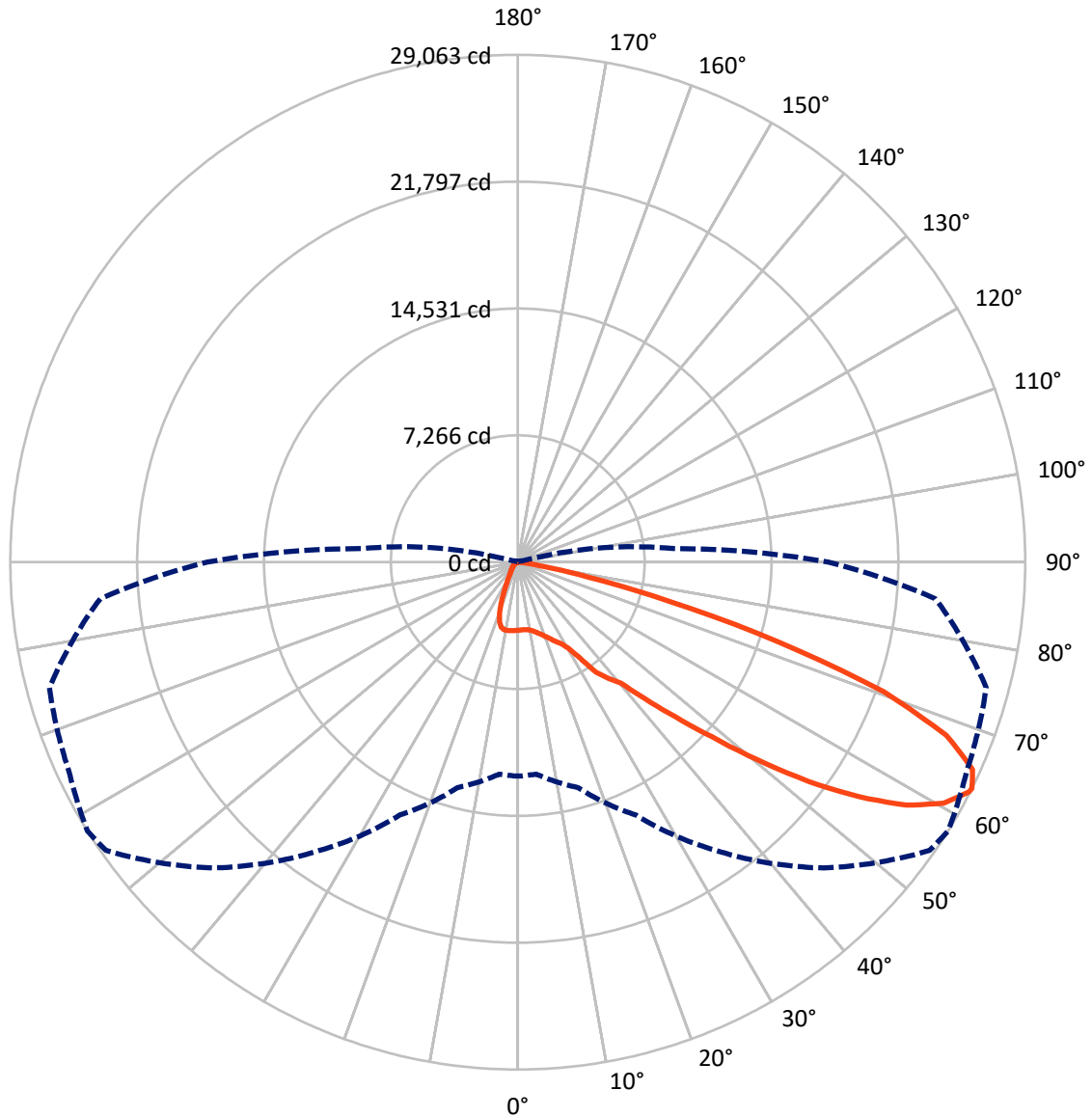
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

REPORT NUMBER: P457171
CATALOG NUMBER: GALN-SA8C-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457171

CATALOG NUMBER: GALN-SA8C-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3609.3	0.0	3609.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31248.7	0.0	31248.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	34858.0	0.0	34858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.3	1.0
10°-20°	995.0	2.9
20°-30°	1726.9	5.0
30°-40°	3173.4	9.1
40°-50°	5973.8	17.1
50°-60°	10217.7	29.3
60°-70°	9783.5	28.1
70°-80°	2494.8	7.2
80°-90°	127.6	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°	34858.0	100.0
0°-180°	34858.0	100.0



REPORT NUMBER: P457171

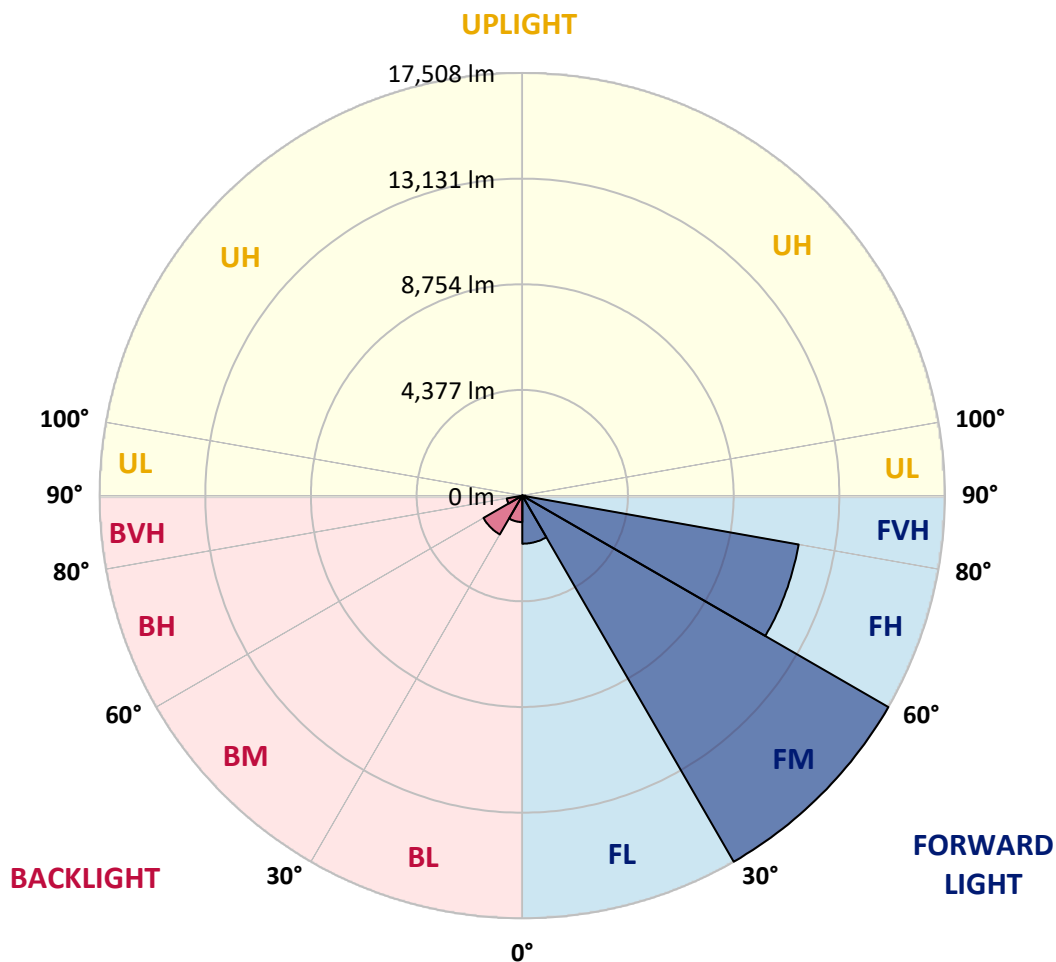
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.6	5.7			
FM (30°-60°)	17508.5	50.2			
FH (60°-80°)	11625.0	33.3			G4/12000
FVH (80°-90°)	122.6	0.4			G2/225
BL (0°-30°)	1094.6	3.1	B3/2500		
BM (30°-60°)	1856.4	5.3	B2/2500		
BH (60°-80°)	653.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P457171

CATALOG NUMBER: GALN-SA8C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5
2.5°	3805.4	3818.5	3831.6	3836.9	3855.2	3873.6	3886.7	3884.1	3905.1	3915.6	3915.6
5°	3653.2	3653.2	3687.3	3718.8	3771.3	3823.8	3873.6	3884.1	3923.5	3960.2	3973.3
7.5°	3524.6	3532.4	3558.7	3616.4	3687.3	3779.1	3878.9	3902.5	3970.7	4052.1	4086.2
10°	3464.2	3469.5	3503.6	3563.9	3653.2	3779.1	3918.2	3962.8	4067.8	4196.4	4243.7
12.5°	3451.1	3459.0	3493.1	3561.3	3663.7	3815.9	4004.8	4052.1	4204.3	4369.6	4440.5
15°	3474.7	3480.0	3514.1	3587.6	3700.4	3881.5	4120.3	4185.9	4367.0	4558.6	4650.4
17.5°	3558.7	3553.4	3577.1	3637.4	3763.4	3962.8	4259.4	4338.1	4550.7	4813.2	4873.5
20°	3915.6	3881.5	3860.5	3808.0	3857.9	4078.3	4427.4	4542.8	4805.3	5073.0	5115.0
22.5°	4684.6	4608.5	4458.9	4254.2	4096.7	4235.8	4629.4	4763.3	5101.8	5364.3	5364.3
25°	5663.5	5566.4	5416.8	4970.6	4584.8	4495.6	4857.8	5025.7	5424.6	5689.7	5603.1
27.5°	6889.1	6813.0	6521.6	6002.0	5411.5	4949.6	5122.8	5277.7	5710.7	6030.9	5849.8
30°	7886.3	7849.6	7610.8	7146.3	6495.4	5820.9	5616.2	5718.6	6091.2	6461.3	6274.9
32.5°	8728.8	8728.8	8484.7	8051.7	7442.8	6844.4	6453.4	6526.9	6883.8	7311.6	6965.2
35°	9655.2	9623.7	9426.9	9014.8	8332.5	7805.0	7644.9	7744.6	8067.4	8385.0	7532.0
37.5°	10628.8	10618.3	10413.6	10014.7	9458.4	8794.4	8419.1	8445.3	8610.7	8804.9	8196.0
40°	11686.5	11702.2	11434.5	11187.8	10663.0	9983.2	9264.1	9098.8	9253.6	9802.1	9421.6
42.5°	12935.7	12898.9	12783.5	12447.5	12025.0	11618.2	10754.8	10694.4	10830.9	11418.8	11006.7
45°	14387.0	14439.5	14240.0	14053.7	13770.2	13431.7	12710.0	12605.0	12754.6	13667.9	13082.7
47.5°	15840.9	15791.0	15919.6	15885.5	16037.7	15785.8	15148.1	14932.9	15292.4	16158.5	15297.6
50°	16948.4	17003.5	17271.2	17662.2	18315.7	18457.4	17845.9	17772.5	17932.5	18488.9	17279.1
52.5°	17667.5	17851.2	18271.1	19276.2	20454.6	21370.5	20906.0	20866.6	20801.0	20950.6	19173.9
55°	18137.3	18323.6	18872.1	20352.2	22380.9	23868.9	23892.6	23724.6	23291.6	23184.0	20945.4
57.5°	17848.6	17885.3	18667.4	20646.2	23449.0	25650.9	26422.5	26254.5	25454.1	25047.3	22509.5
60°	16043.0	16119.1	17208.2	19533.4	22984.5	26233.5	28099.5	28023.4	27146.8	26687.6	23727.2
62.5°	12843.8	13064.3	14184.9	16777.8	20824.6	25252.0	28779.2	28994.4	28312.1	27679.6	24110.4
63°	12256.0	12185.1	13368.7	15974.7	20252.5	24766.5	28789.7	29062.6	28364.6	27774.1	24005.4
65°	9072.6	9285.1	10054.1	12597.1	16853.9	22506.9	28141.5	28624.4	28170.3	27356.8	22842.8
67.5°	5094.0	5083.5	5933.8	8243.3	11796.7	17654.4	25446.2	26467.1	26372.6	24548.7	18935.1
70°	2493.2	2532.5	2881.6	4272.5	6841.8	12179.9	21144.8	22247.1	22281.2	19281.5	13093.1
72.5°	1128.5	1146.9	1396.2	2081.2	3516.7	6484.9	14570.7	15623.1	15428.9	12287.5	7230.2
75°	595.7	635.1	769.0	1047.1	1695.4	2674.3	7925.7	8944.0	8537.2	5613.6	2661.1
77.5°	440.9	454.0	522.3	666.6	908.0	1041.9	3419.6	4067.8	3810.6	2031.3	881.8
80°	322.8	333.3	388.4	472.4	572.1	530.1	1288.6	1477.5	1325.3	690.2	270.3
82.5°	196.8	199.5	283.4	351.7	359.5	296.6	425.2	456.6	477.6	388.4	147.0
85°	70.9	89.2	191.6	254.6	212.6	149.6	178.5	196.8	215.2	246.7	86.6
87.5°	7.9	10.5	91.9	123.3	60.4	55.1	65.6	73.5	78.7	91.9	42.0
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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CATALOG NUMBER: GALN-SA8C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5	3902.5
2.5°	3926.1	3936.6	3928.7	3915.6	3913.0	3905.1	3889.4	3889.4	3889.4	3894.6	3889.4
5°	3983.8	3991.7	3973.3	3947.1	3918.2	3881.5	3842.1	3818.5	3815.9	3810.6	3797.5
7.5°	4094.1	4104.6	4062.6	3999.6	3920.9	3831.6	3747.6	3668.9	3632.2	3603.3	3603.3
10°	4254.2	4264.7	4180.7	4067.8	3910.4	3729.3	3529.8	3348.7	3207.0	3141.4	3125.7
12.5°	4445.7	4451.0	4311.9	4115.1	3855.2	3506.2	3081.0	2684.8	2409.2	2283.2	2270.1
15°	4655.7	4619.0	4435.2	4133.4	3697.8	3046.9	2312.1	1826.6	1540.5	1456.5	1488.0
17.5°	4868.3	4800.0	4529.7	4104.6	3343.5	2312.1	1553.6	1246.6	1157.4	1133.7	1133.7
20°	5067.7	4973.2	4598.0	3978.6	2729.4	1593.0	1152.1	1078.6	1062.9	1047.1	1049.8
22.5°	5267.2	5122.8	4658.3	3697.8	2033.9	1139.0	1031.4	1007.8	986.8	965.8	963.2
25°	5461.4	5261.9	4681.9	3178.2	1385.7	978.9	942.2	910.7	868.7	845.1	839.8
27.5°	5663.5	5429.9	4666.2	2522.1	1010.4	876.6	839.8	795.2	745.3	703.3	703.3
30°	6051.9	5750.1	4611.1	1813.5	850.3	771.6	724.3	653.5	598.4	556.4	553.7
32.5°	6582.0	6167.3	4422.1	1275.5	755.8	679.7	608.9	530.1	472.4	440.9	440.9
35°	7054.4	6587.3	4067.8	939.5	679.7	590.5	503.9	427.8	383.2	362.2	354.3
37.5°	7773.5	7201.4	3579.7	763.7	606.2	511.8	422.5	351.7	314.9	299.2	299.2
40°	8852.1	7951.9	2981.3	669.2	535.4	435.7	351.7	296.6	267.7	249.3	249.3
42.5°	10190.6	8870.5	2375.1	601.0	469.8	375.3	293.9	251.9	225.7	212.6	210.0
45°	11875.4	9838.9	1829.2	538.0	417.3	320.2	249.3	212.6	186.3	178.5	181.1
47.5°	13633.8	10691.8	1417.2	482.9	362.2	270.3	212.6	183.7	165.3	154.8	154.8
50°	15134.9	11279.7	1076.0	419.9	320.2	228.3	186.3	165.3	149.6	144.3	141.7
52.5°	16389.4	11450.3	824.1	364.8	280.8	196.8	165.3	149.6	136.5	128.6	128.6
55°	17457.5	11300.7	645.6	307.1	236.2	170.6	147.0	133.8	118.1	110.2	107.6
57.5°	18082.1	10820.4	493.4	254.6	191.6	141.7	128.6	112.8	94.5	81.4	81.4
60°	18397.1	10122.3	377.9	210.0	147.0	112.8	105.0	84.0	65.6	55.1	52.5
62.5°	18019.2	9195.9	286.1	165.3	110.2	84.0	70.9	60.4	42.0	31.5	31.5
63°	17785.6	8928.2	275.6	157.5	102.4	78.7	65.6	55.1	36.7	28.9	26.2
65°	16213.6	7760.4	225.7	126.0	81.4	55.1	44.6	39.4	26.2	13.1	10.5
67.5°	12875.3	5936.4	178.5	94.5	57.7	39.4	26.2	23.6	7.9	0.0	0.0
70°	8705.1	3834.3	139.1	68.2	39.4	23.6	13.1	10.5	2.6	0.0	0.0
72.5°	4540.2	1965.7	107.6	49.9	23.6	15.7	7.9	2.6	0.0	0.0	0.0
75°	1606.1	669.2	78.7	31.5	15.7	7.9	2.6	0.0	0.0	0.0	0.0
77.5°	485.5	249.3	49.9	23.6	10.5	5.2	0.0	0.0	0.0	0.0	0.0
80°	170.6	91.9	28.9	15.7	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	84.0	44.6	18.4	13.1	7.9	2.6	0.0	0.0	0.0	0.0	0.0
85°	47.2	28.9	15.7	13.1	7.9	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	34.1	21.0	15.7	13.1	10.5	5.2	2.6	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)