

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: P459045

Luminaire Tested: **GALN-SA5C-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26978 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

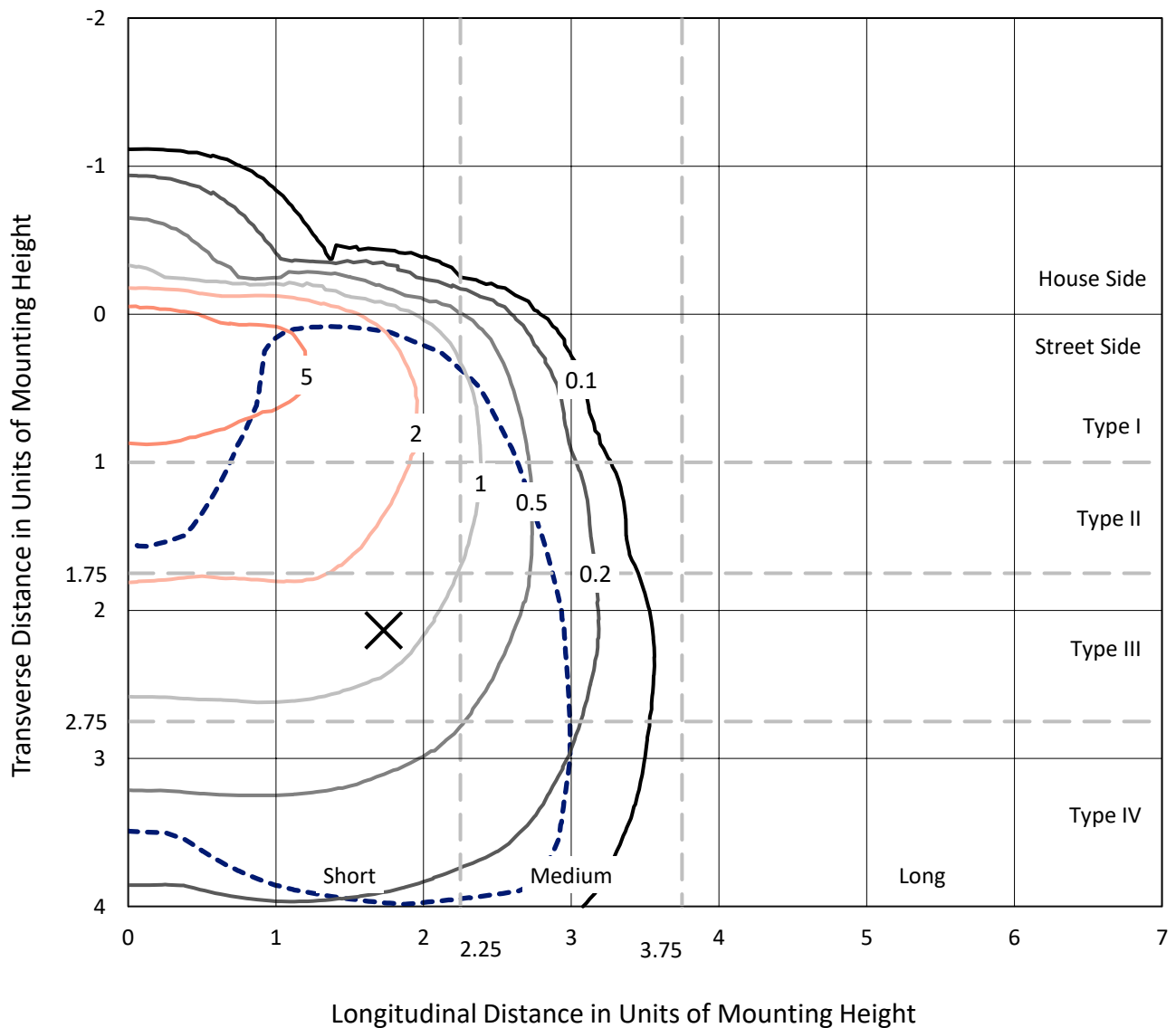
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

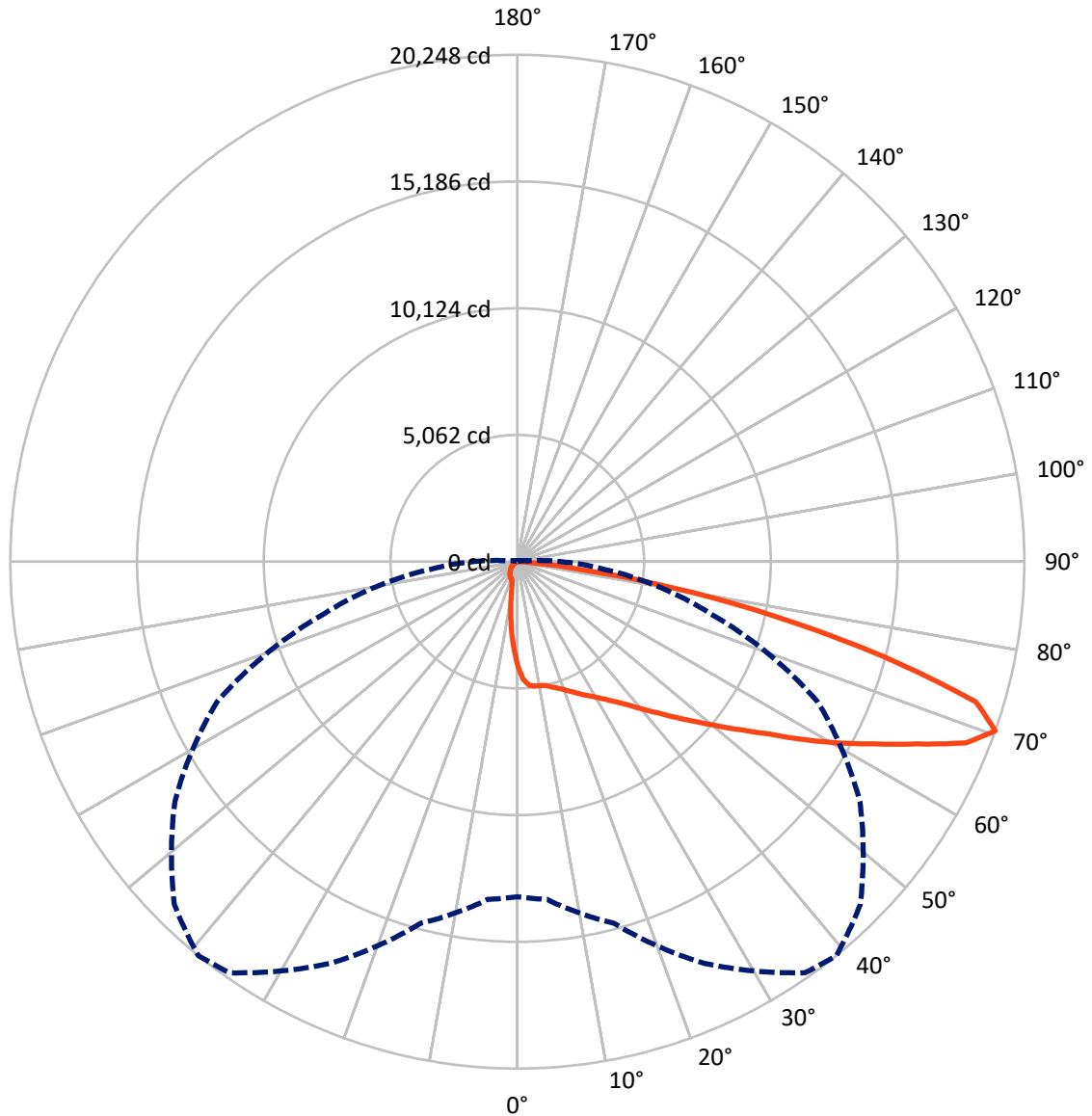
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1759.1	0.0	1759.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	25218.9	0.0	25218.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	26978.0	0.0	26978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.0	1.3
10°-20°	933.0	3.5
20°-30°	1563.1	5.8
30°-40°	2424.2	9.0
40°-50°	3841.6	14.2
50°-60°	5631.2	20.9
60°-70°	7217.9	26.8
70°-80°	4535.5	16.8
80°-90°	472.5	1.8
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°	26978.0	100.0
0°-180°	26978.0	100.0

Coefficient of Utilization

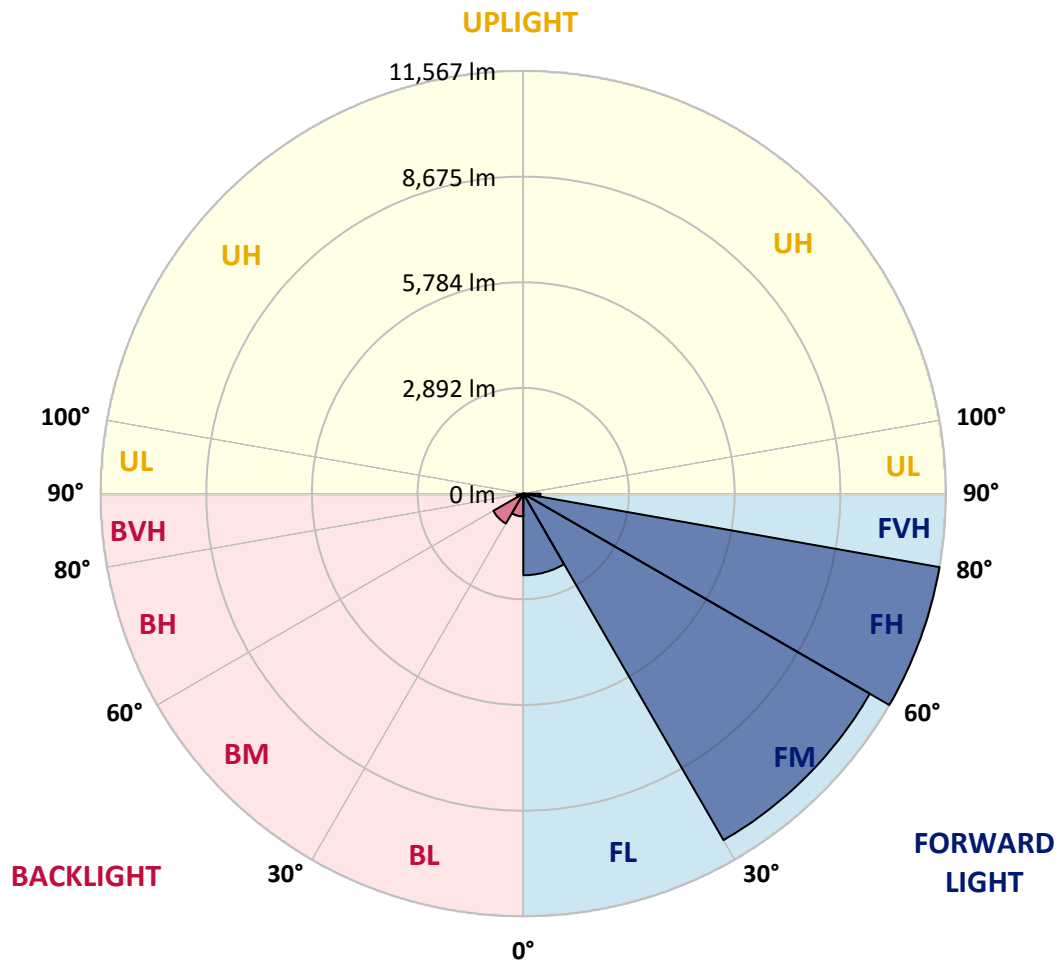


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2232.3	8.3			
FM (30°-60°)	10950.3	40.6			
FH (60°-80°)	11567.3	42.9			G4/12000
FVH (80°-90°)	469.0	1.7			G3/500
BL (0°-30°)	622.9	2.3	B2/1000		
BM (30°-60°)	946.7	3.5	B1/1000		
BH (60°-80°)	186.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5
2.5°	4863.9	4847.6	4825.9	4800.5	4728.0	4715.3	4671.8	4579.3	4468.7	4378.1	4253.0
5°	5094.2	5103.2	5086.9	5041.6	4989.0	4958.2	4903.8	4760.6	4617.4	4434.3	4229.4
7.5°	5146.7	5164.9	5144.9	5101.4	5050.7	5018.0	4974.5	4851.3	4684.5	4476.0	4195.0
10°	5141.3	5163.1	5150.4	5110.5	5068.8	5038.0	4990.8	4892.9	4758.8	4539.4	4205.9
12.5°	5132.2	5161.3	5159.4	5139.5	5105.1	5081.5	5052.5	4965.5	4840.4	4631.9	4265.7
15°	5106.9	5143.1	5175.8	5192.1	5193.9	5193.9	5157.6	5065.2	4945.5	4753.4	4343.6
17.5°	5117.7	5159.4	5241.0	5288.2	5320.8	5317.2	5279.1	5179.4	5047.0	4878.4	4425.2
20°	5184.8	5241.0	5355.2	5449.5	5482.1	5471.3	5420.5	5304.5	5154.0	4985.4	4505.0
22.5°	5349.8	5400.6	5543.8	5654.4	5677.9	5648.9	5576.4	5418.7	5282.7	5101.4	4601.1
25°	5596.3	5656.2	5788.5	5871.9	5871.9	5855.6	5754.1	5569.1	5427.7	5262.8	4726.2
27.5°	5895.5	5946.2	6076.8	6151.1	6107.6	6060.4	5958.9	5735.9	5600.0	5465.8	4876.6
30°	6198.2	6230.8	6368.6	6401.3	6355.9	6296.1	6187.3	5964.4	5844.7	5741.4	5094.2
32.5°	6484.7	6555.4	6669.6	6662.3	6600.7	6571.7	6472.0	6234.5	6167.4	6156.5	5398.7
35°	6771.1	6825.5	6927.0	6952.4	6898.0	6892.5	6820.0	6644.2	6646.0	6716.7	5873.7
37.5°	7017.6	7066.6	7186.2	7242.4	7253.3	7280.5	7251.5	7135.5	7300.4	7494.4	6502.8
40°	7224.3	7293.2	7445.5	7543.4	7655.8	7755.5	7760.9	7786.3	8118.0	8451.6	7324.0
42.5°	7385.6	7481.7	7702.9	7884.2	8141.6	8268.5	8370.0	8509.6	9068.0	9566.5	8292.1
45°	7595.9	7706.5	7982.1	8266.7	8669.2	8877.6	9019.0	9392.5	10184.7	10864.6	9285.5
47.5°	7944.0	8002.0	8283.0	8698.2	9227.5	9524.8	9800.4	10366.0	11383.0	11992.2	10112.2
50°	8391.8	8429.9	8642.0	9218.5	9903.7	10295.3	10797.5	11462.8	12626.7	12927.6	10579.9
52.5°	8886.7	8899.4	9058.9	9791.3	10661.5	11154.6	11716.6	12537.8	13640.1	13594.7	10889.9
55°	9461.4	9443.3	9579.2	10413.1	11558.9	12122.7	12777.1	13638.3	14519.3	14067.9	11067.6
57.5°	10119.5	10070.5	10202.9	11238.0	12708.2	13382.6	14048.0	14588.2	15200.9	14464.9	11152.8
60°	10808.4	10710.5	10868.2	12164.4	14062.5	14702.4	15255.3	15400.4	15918.8	14780.4	11006.0
62.5°	11357.7	11359.5	11653.2	13150.6	15454.8	16014.9	16308.6	16439.1	16537.0	14711.5	10233.7
65°	12215.1	12244.2	12713.7	14519.3	17066.4	17552.2	17753.5	17329.3	16564.2	13855.8	9073.4
67.5°	13099.8	13192.3	14051.6	16404.7	18928.2	19319.8	19060.6	17501.5	15824.6	11903.3	6879.9
70°	13388.1	13540.4	14956.2	17702.7	20044.9	20248.0	19370.6	16698.4	13228.5	7958.5	3462.6
72.5°	12267.7	12514.3	14435.9	17229.6	19332.5	19156.6	17331.1	14004.5	8409.9	3022.1	1056.9
75°	8651.0	8759.8	11997.6	14292.7	15549.0	15050.5	13183.2	9028.1	3459.0	848.4	362.6
77.5°	4466.9	4414.3	7135.5	9483.1	11089.4	10572.7	8632.9	4673.6	1310.7	353.5	224.8
80°	2309.6	2347.7	3087.3	4969.1	6769.3	6229.0	4602.9	2166.4	698.0	195.8	172.2
82.5°	1294.4	1214.6	1774.8	2170.0	3165.3	2481.8	1765.7	1533.7	304.6	117.8	163.2
85°	235.7	246.6	973.5	1172.9	1098.6	698.0	569.2	1024.3	88.8	65.3	114.2
87.5°	3.6	3.6	188.5	337.2	213.9	97.9	179.5	146.8	18.1	25.4	19.9
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°	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5	4209.5
2.5°	4189.6	4120.7	3991.9	3865.0	3703.7	3571.4	3482.5	3390.1	3295.8	3303.1	3324.8
5°	4117.0	3997.4	3743.6	3475.3	3217.9	2985.8	2757.4	2552.5	2469.1	2393.0	2396.6
7.5°	4044.5	3875.9	3504.3	3083.7	2693.9	2298.7	2012.3	1776.6	1651.5	1557.3	1530.1
10°	4011.9	3788.9	3284.9	2706.6	2153.7	1722.2	1354.2	1162.1	1013.4	966.3	979.0
12.5°	4026.4	3745.4	3087.3	2365.8	1707.7	1200.1	942.7	844.8	812.2	806.7	803.1
15°	4053.6	3714.6	2893.3	1988.7	1254.5	891.9	792.2	774.1	770.5	766.8	768.7
17.5°	4089.8	3687.4	2686.7	1635.2	962.6	779.5	750.5	741.5	739.7	739.7	739.7
20°	4126.1	3656.6	2456.4	1319.8	803.1	736.0	717.9	712.5	710.6	710.6	708.8
22.5°	4167.8	3629.4	2222.6	1037.0	739.7	705.2	688.9	685.3	683.5	681.6	681.6
25°	4227.6	3594.9	1974.2	848.4	699.8	676.2	659.9	656.3	654.4	647.2	649.0
27.5°	4307.4	3569.5	1718.6	732.4	663.5	639.9	629.1	623.6	620.0	614.6	616.4
30°	4416.2	3547.8	1446.7	669.0	621.8	601.9	591.0	587.4	583.7	578.3	578.3
32.5°	4604.7	3556.9	1160.2	618.2	583.7	560.2	549.3	545.7	542.0	536.6	536.6
35°	4887.5	3609.4	928.2	574.7	538.4	514.9	504.0	504.0	498.5	491.3	489.5
37.5°	5349.8	3743.6	745.1	533.0	494.9	473.2	460.5	456.8	451.4	440.5	438.7
40°	5895.5	3952.1	627.3	491.3	455.0	433.3	422.4	411.5	397.0	386.1	384.3
42.5°	6580.7	4166.0	543.9	449.6	417.0	397.0	384.3	366.2	344.4	329.9	328.1
45°	7295.0	4361.8	487.7	411.5	380.7	364.4	349.9	320.9	293.7	275.6	273.7
47.5°	7828.0	4398.0	442.3	375.3	349.9	333.6	313.6	277.4	241.1	224.8	219.4
50°	8080.0	4222.2	395.2	339.0	319.1	300.9	275.6	233.9	194.0	174.0	170.4
52.5°	8168.8	3917.6	357.1	306.4	288.2	266.5	235.7	188.5	152.3	132.3	130.5
55°	8132.6	3533.3	322.7	275.6	252.0	226.6	195.8	150.5	112.4	96.1	92.5
57.5°	7942.2	3043.8	288.2	244.7	215.7	190.4	155.9	112.4	76.1	61.6	59.8
60°	7429.2	2376.7	253.8	210.3	183.1	155.9	123.3	79.8	47.1	34.4	34.4
62.5°	6562.6	1763.9	221.2	175.8	154.1	125.1	87.0	50.8	25.4	18.1	16.3
65°	5483.9	1301.6	184.9	148.7	128.7	97.9	61.6	30.8	12.7	5.4	3.6
67.5°	3827.0	803.1	154.1	121.5	105.1	70.7	38.1	12.7	5.4	0.0	0.0
70°	1738.5	382.5	117.8	92.5	79.8	50.8	19.9	7.3	3.6	0.0	0.0
72.5°	540.2	201.2	83.4	67.1	54.4	32.6	10.9	5.4	3.6	0.0	0.0
75°	250.2	128.7	52.6	36.3	30.8	16.3	7.3	3.6	1.8	0.0	0.0
77.5°	186.7	99.7	30.8	19.9	16.3	10.9	5.4	3.6	1.8	0.0	0.0
80°	163.2	50.8	18.1	12.7	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	146.8	25.4	10.9	7.3	5.4	3.6	1.8	1.8	0.0	0.0	0.0
85°	79.8	14.5	7.3	5.4	3.6	1.8	1.8	0.0	0.0	0.0	0.0
87.5°	14.5	7.3	5.4	3.6	3.6	1.8	1.8	1.8	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)