

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: P459507

Luminaire Tested: **GALN-SA9C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49113 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

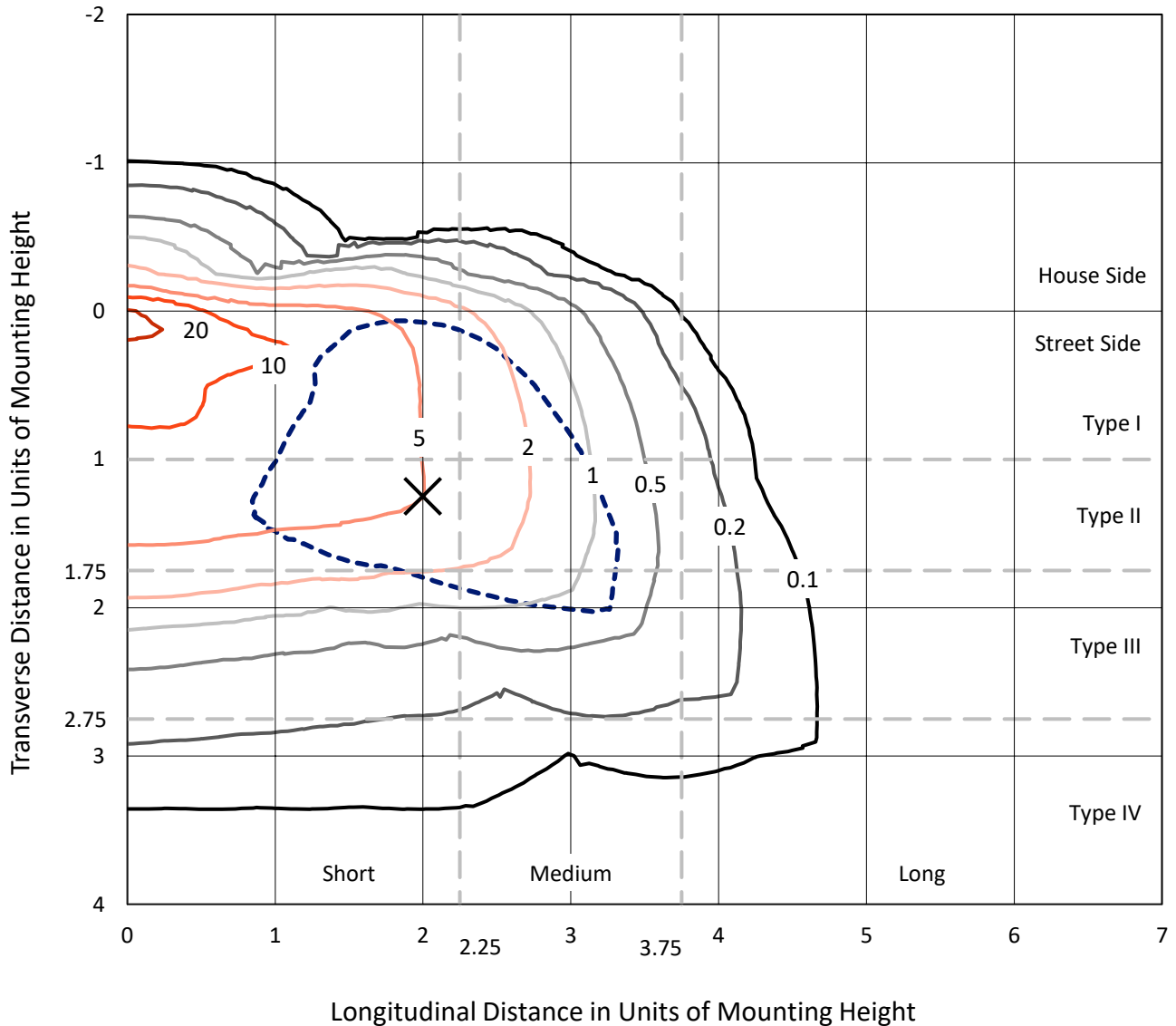
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459507
 CATALOG NUMBER: GALN-SA9C-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

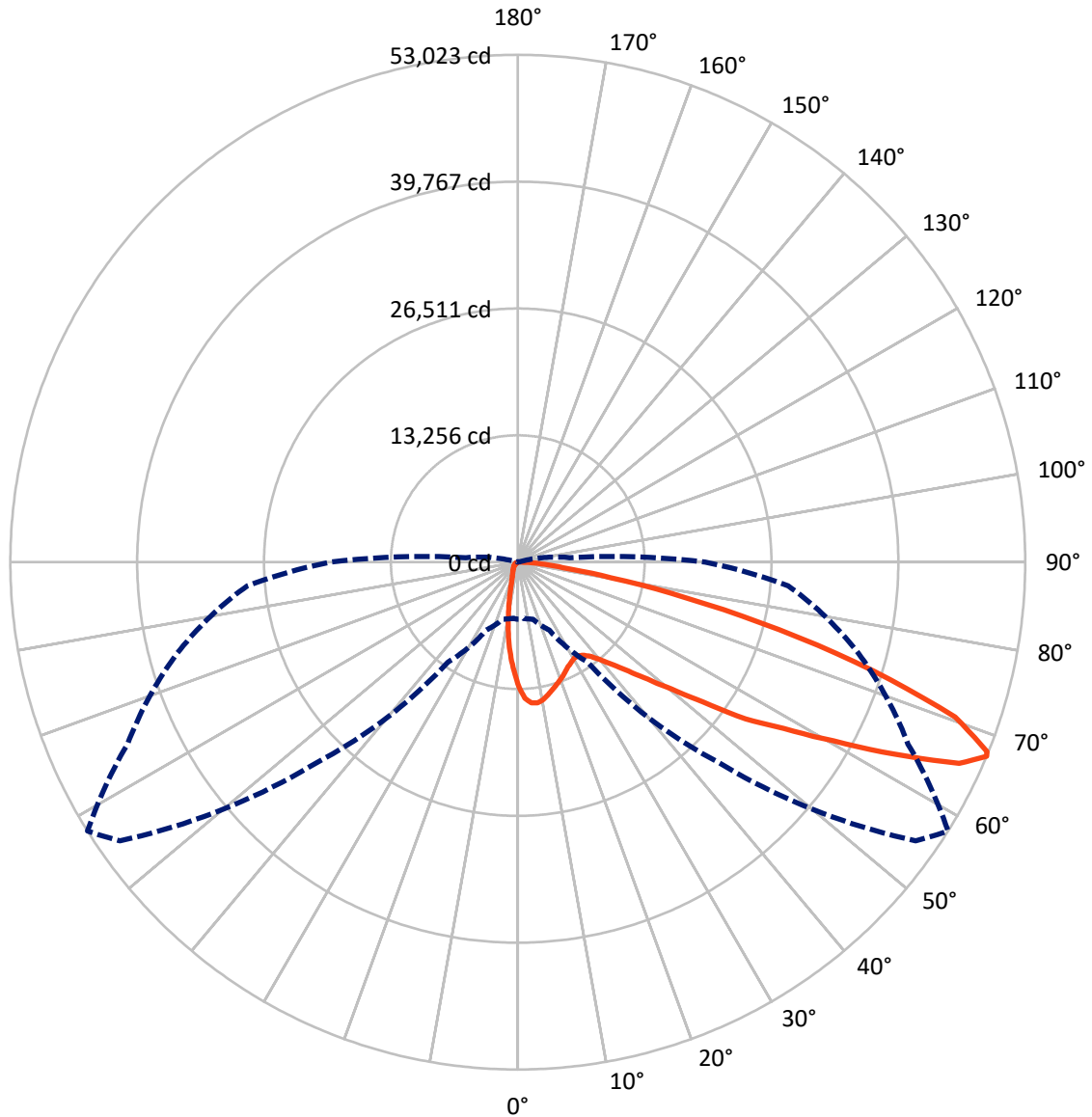
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type III - Short - N/A

REPORT NUMBER: P459507
CATALOG NUMBER: GALN-SA9C-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P459507

CATALOG NUMBER: GALN-SA9C-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3544.3	0.0	3544.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	45568.7	0.0	45568.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	49113.0	0.0	49113.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.5	2.2
10°-20°	2281.8	4.6
20°-30°	3092.0	6.3
30°-40°	4288.4	8.7
40°-50°	6839.4	13.9
50°-60°	11822.6	24.1
60°-70°	13505.1	27.5
70°-80°	5630.4	11.5
80°-90°	597.0	1.2
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°	49113.0	100.0
0°-180°	49113.0	100.0



REPORT NUMBER: P459507

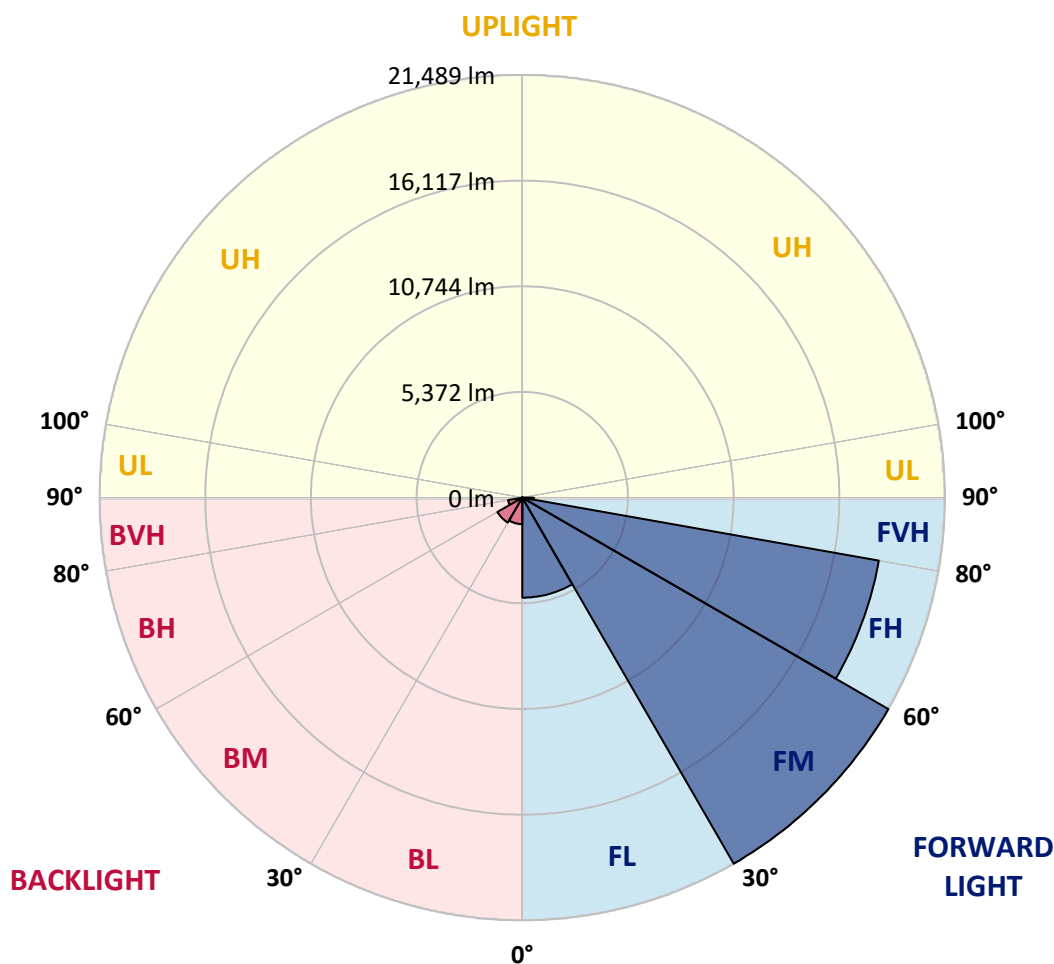
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5084.4	10.4			
FM	(30°-60°)	21489.0	43.8			
FH	(60°-80°)	18402.7	37.5			G5
FVH	(80°-90°)	592.7	1.2			G4/750
BL	(0°-30°)	1345.8	2.7	B3/2500		
BM	(30°-60°)	1461.4	3.0	B2/2500		
BH	(60°-80°)	732.7	1.5	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: B3-U0-G5

Type III Short





REPORT NUMBER: P459507

CATALOG NUMBER: GALN-SA9C-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4
2.5°	15110.0	15133.0	15047.6	14978.7	14801.5	14611.1	14358.4	14223.9	13994.1	13597.0	13157.2
5°	15464.4	15494.0	15480.9	15464.4	15395.5	15211.7	14890.1	14772.0	14433.9	13787.4	12993.1
7.5°	14676.8	14785.1	14798.2	14926.2	15047.6	15064.0	14942.6	14854.0	14542.2	13784.1	12701.1
10°	13633.1	13705.3	13810.3	13958.0	14250.1	14493.0	14611.1	14598.0	14417.5	13682.4	12359.7
12.5°	12579.6	12619.0	12779.8	13032.5	13390.3	13803.8	14118.9	14181.2	14184.5	13560.9	12074.2
15°	11673.8	11657.4	11782.1	12074.2	12576.3	13094.9	13659.4	13757.8	13915.4	13442.8	11808.4
17.5°	10899.3	10984.6	11004.3	11325.9	11788.7	12461.5	13180.2	13354.2	13669.2	13341.0	11588.5
20°	10420.1	10466.1	10508.7	10689.2	11106.0	11814.9	12730.6	12970.2	13439.5	13249.1	11342.3
22.5°	10279.0	10308.5	10272.4	10328.2	10623.6	11253.7	12241.6	12559.9	13219.6	13163.8	11142.1
25°	10387.3	10416.8	10331.5	10265.9	10367.6	10797.5	11769.0	12156.3	13042.4	13147.4	10991.2
27.5°	10649.9	10705.6	10587.5	10469.3	10410.3	10551.4	11398.1	11847.8	12920.9	13226.2	10922.3
30°	11060.1	11092.9	11004.3	10859.9	10725.3	10584.2	11204.5	11634.4	12888.1	13410.0	10915.7
32.5°	11506.4	11575.4	11526.1	11431.0	11257.0	10922.3	11260.3	11641.0	12966.9	13675.8	10997.7
35°	12057.8	12136.6	12182.5	12162.8	11939.7	11522.8	11614.7	11936.4	13176.9	14164.8	11220.9
37.5°	12599.3	12668.2	12927.5	13016.1	12819.2	12425.4	12303.9	12517.3	13639.7	14804.8	11624.6
40°	13219.6	13311.5	13675.8	14013.8	13918.7	13505.1	13282.0	13459.2	14348.6	15769.7	12389.3
42.5°	13813.6	13977.7	14532.4	15129.7	15218.3	14755.5	14607.9	14666.9	15398.8	17157.9	13455.9
45°	14657.1	14811.3	15526.8	16337.4	16754.2	16393.2	16242.3	16232.4	16839.6	19110.7	15185.5
47.5°	15874.7	16012.5	16856.0	17656.8	18398.5	18447.7	18162.2	18260.6	18651.2	21394.9	17305.6
50°	17368.0	17692.9	18247.5	19081.1	20072.3	20873.1	20961.7	20830.4	21165.1	24040.1	19852.4
52.5°	19537.3	19662.0	20170.7	20856.6	22018.4	23377.2	24430.7	24250.2	24145.1	26560.6	22425.4
55°	21155.3	21322.7	22113.6	23055.5	24758.9	26550.8	28835.0	28897.4	27571.5	28982.7	24942.6
57.5°	20666.3	20922.3	22120.2	24013.9	27758.5	31033.9	32733.9	32776.6	30741.8	31335.8	27784.8
60°	18155.6	18277.1	19993.5	22520.6	28014.5	35891.2	38264.0	37919.4	33967.9	33967.9	30295.5
62.5°	12875.0	13065.4	14456.9	18175.3	25300.4	37578.1	44886.9	44174.7	38411.7	36485.2	31792.0
65°	8227.8	8044.0	8966.2	11473.6	18848.1	35087.1	50653.3	50695.9	42592.9	37492.7	30974.8
67°	5960.0	5887.8	6153.6	7843.8	12779.8	29494.7	50774.7	53022.8	44995.2	36856.0	28362.4
67.5°	5451.3	5507.1	5700.7	7075.8	11611.5	26839.6	50223.3	52885.0	45536.7	36472.1	27417.2
70°	4131.9	4036.8	4246.8	5004.9	6961.0	16931.5	43203.3	48503.6	44863.9	32661.7	21906.9
72.5°	3039.1	3029.2	3321.3	4092.6	5359.4	9018.7	32432.0	38890.8	36652.6	24870.4	13793.9
75°	2051.2	2143.1	2609.1	3419.8	4857.3	5848.4	22110.3	28214.7	25444.8	14122.1	5638.4
77.5°	1168.4	1174.9	1680.3	2747.0	4361.7	4706.3	13101.5	17975.1	13469.0	4696.4	1673.8
80°	505.4	554.6	833.6	1995.4	3616.7	4168.0	7512.3	9878.6	5448.0	994.4	541.5
82.5°	187.1	219.9	367.6	1227.4	2638.7	3432.9	4538.9	4716.1	1847.7	351.2	338.0
85°	0.0	6.6	134.6	574.3	1375.1	1532.7	3032.5	2796.2	817.2	167.4	219.9
87.5°	0.0	0.0	0.0	59.1	180.5	571.1	941.9	1050.2	196.9	59.1	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459507

CATALOG NUMBER: GALN-SA9C-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4	13019.4
2.5°	12920.9	12707.6	12172.7	11637.7	11240.6	10909.1	10410.3	10137.9	9993.5	9780.1	9793.3
5°	12596.0	12162.8	11220.9	10246.2	9458.5	8690.5	7771.6	7400.7	7089.0	6911.7	6793.6
7.5°	12113.6	11473.6	10078.8	8779.2	7568.1	6225.8	5218.3	4545.5	4092.6	3925.2	3764.4
10°	11585.2	10735.2	8920.3	7118.5	5438.2	4053.2	3199.9	2582.9	2363.0	2159.5	2179.2
12.5°	11096.2	10062.4	7856.9	5618.7	3810.3	2576.3	2008.5	1755.8	1683.6	1660.7	1660.7
15°	10695.8	9419.1	6714.8	4223.8	2612.4	1851.0	1608.1	1539.2	1513.0	1506.4	1506.4
17.5°	10269.2	8808.7	5684.3	3121.1	1900.2	1549.1	1467.0	1421.1	1411.2	1404.7	1404.7
20°	9888.4	8195.0	4706.3	2323.6	1535.9	1394.8	1342.3	1312.8	1302.9	1296.4	1299.6
22.5°	9527.4	7650.2	3787.3	1755.8	1352.2	1270.1	1217.6	1188.1	1168.4	1152.0	1155.2
25°	9205.8	7125.1	3045.6	1437.5	1217.6	1145.4	1092.9	1050.2	1007.6	987.9	984.6
27.5°	8979.4	6665.6	2372.8	1230.7	1096.2	1017.4	951.8	899.2	843.5	813.9	807.4
30°	8792.3	6199.6	1877.3	1086.3	974.7	899.2	817.2	741.7	682.6	653.1	640.0
32.5°	8670.9	5756.5	1480.1	968.2	873.0	781.1	689.2	613.7	548.1	518.5	512.0
35°	8651.2	5385.6	1211.0	869.7	781.1	682.6	587.5	505.4	449.6	420.1	413.5
37.5°	8792.3	5100.1	1014.1	790.9	705.6	597.3	492.3	416.8	367.6	344.6	341.3
40°	9169.7	4919.6	879.6	725.3	636.7	518.5	420.1	354.4	305.2	282.2	282.2
42.5°	9888.4	4926.2	790.9	662.9	567.8	443.1	357.7	295.4	252.7	233.0	226.5
45°	11010.9	5149.3	715.5	600.6	502.1	384.0	305.2	242.9	200.2	183.8	183.8
47.5°	12514.0	5592.4	649.8	538.2	443.1	328.2	259.3	196.9	160.8	144.4	144.4
50°	14479.9	6304.6	594.0	485.7	393.8	282.2	210.0	160.8	124.7	111.6	108.3
52.5°	16534.3	7184.1	528.4	439.8	338.0	239.6	170.7	124.7	95.2	85.3	82.0
55°	18802.2	8044.0	466.0	393.8	275.7	200.2	134.6	98.5	68.9	59.1	59.1
57.5°	21089.7	8887.5	390.5	328.2	216.6	147.7	105.0	72.2	45.9	36.1	36.1
60°	23026.0	9159.9	331.5	265.8	164.1	105.0	75.5	45.9	26.3	16.4	16.4
62.5°	23291.8	8240.9	279.0	203.5	118.1	72.2	39.4	26.3	9.8	6.6	6.6
65°	21847.8	6695.1	233.0	154.3	78.8	36.1	16.4	9.8	3.3	0.0	0.0
67°	19576.7	5428.3	190.4	114.9	55.8	23.0	9.8	3.3	0.0	0.0	0.0
67.5°	18995.8	5175.6	183.8	108.3	49.2	19.7	6.6	3.3	0.0	0.0	0.0
70°	14906.5	3876.0	131.3	65.6	29.5	13.1	0.0	0.0	0.0	0.0	0.0
72.5°	9264.9	2192.3	95.2	39.4	19.7	6.6	0.0	0.0	0.0	0.0	0.0
75°	3501.8	768.0	65.6	26.3	13.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1089.6	292.1	39.4	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	367.6	111.6	26.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	226.5	45.9	16.4	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	141.1	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.3	6.6	3.3	0.0	0.0	0.0	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)