

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: P458086

Luminaire Tested: **GALN-SA9C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458086
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-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 44092 lumens
Efficiency: N/A
Efficacy: 91.7 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

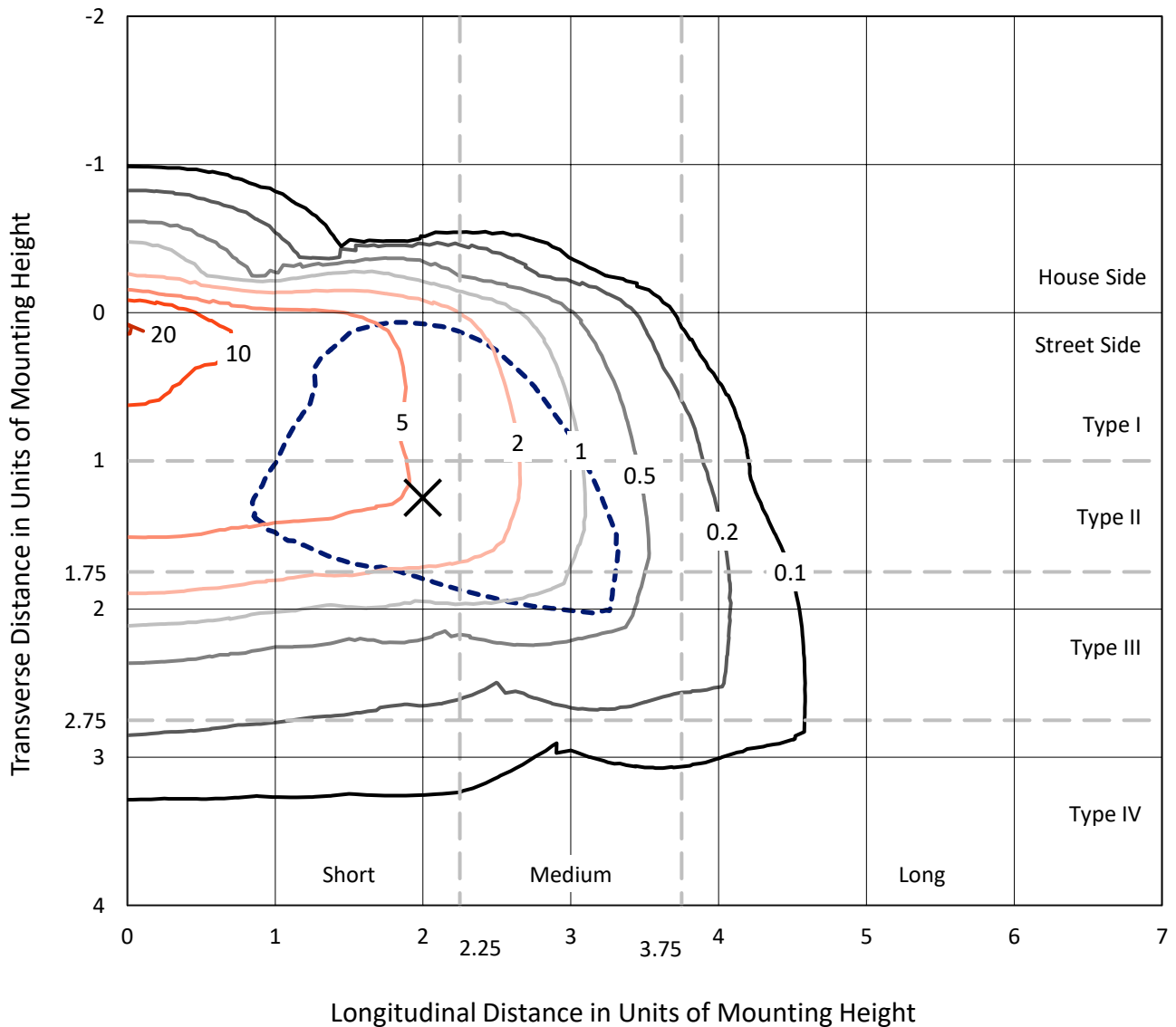
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

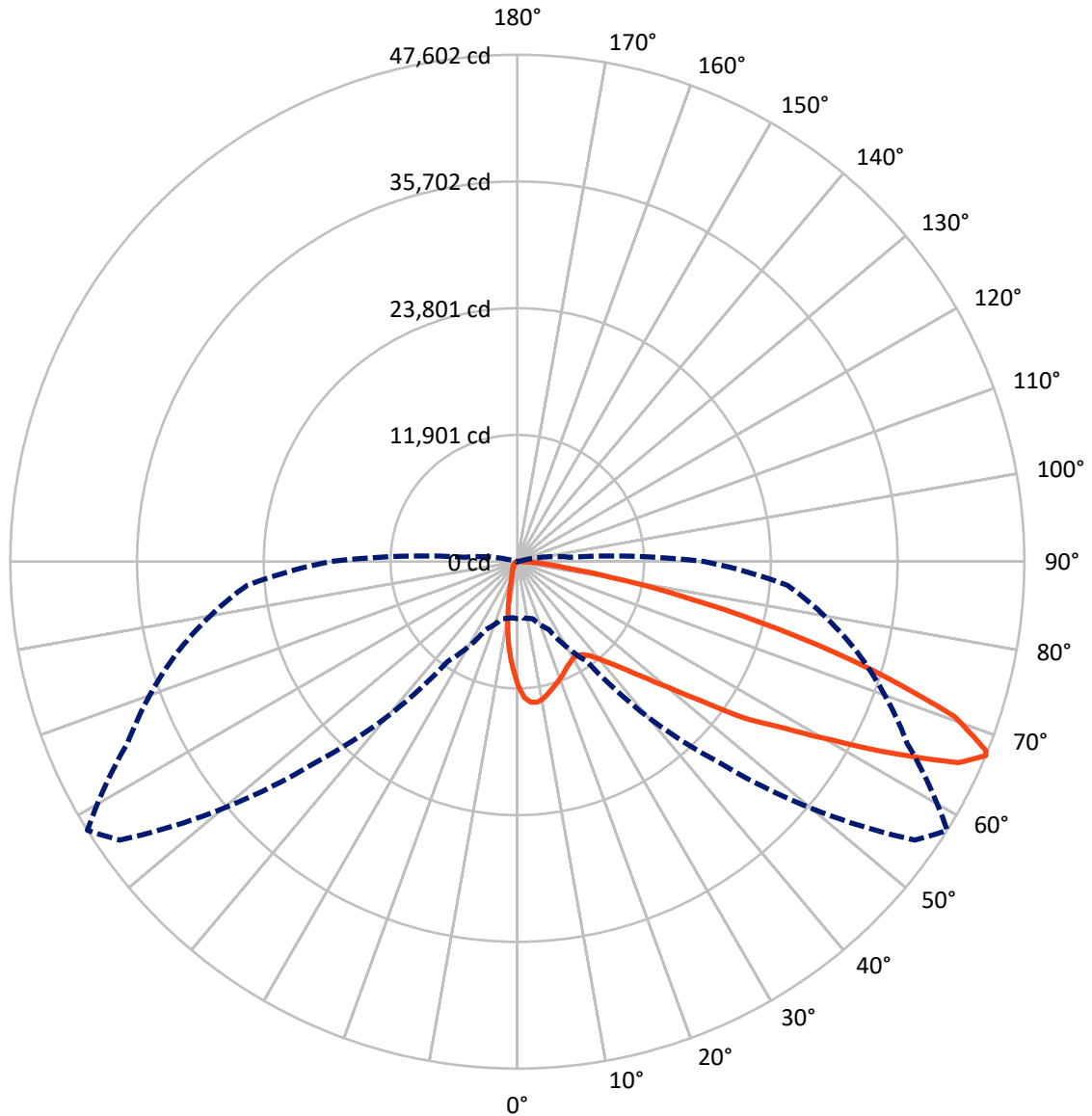
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA9C-727-U-SL3-HSS

Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.9	0.0	3181.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	40910.1	0.0	40910.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	44092.0	0.0	44092.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	948.5	2.2
10°-20°	2048.5	4.6
20°-30°	2775.9	6.3
30°-40°	3850.0	8.7
40°-50°	6140.2	13.9
50°-60°	10613.9	24.1
60°-70°	12124.4	27.5
70°-80°	5054.8	11.5
80°-90°	535.9	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°	44092.0	100.0
0°-180°	44092.0	100.0



REPORT NUMBER: P458086

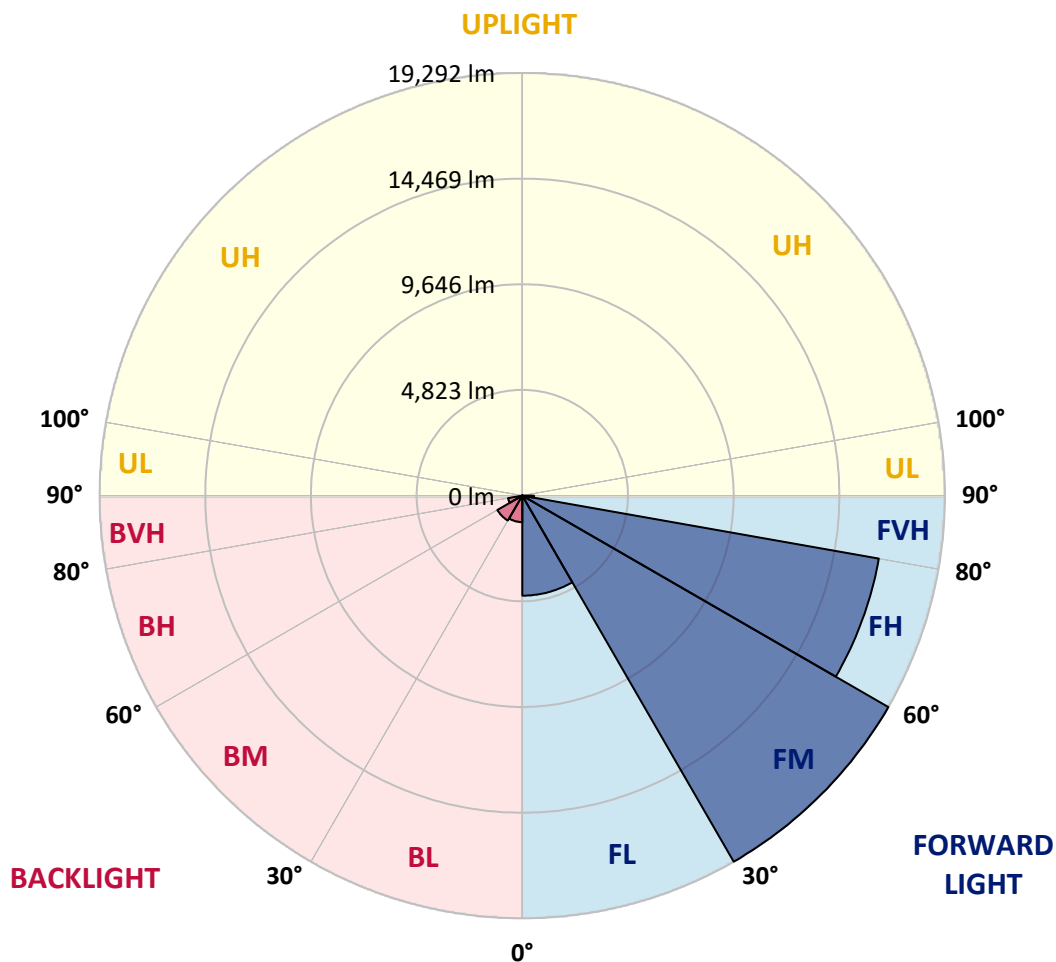
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4564.6	10.4			
FM	(30°-60°)	19292.1	43.8			
FH	(60°-80°)	16521.3	37.5			G5
FVH	(80°-90°)	532.1	1.2			G4/750
BL	(0°-30°)	1208.3	2.7	B3/2500		
BM	(30°-60°)	1312.0	3.0	B2/2500		
BH	(60°-80°)	657.8	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.9	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4
2.5°	13565.2	13585.9	13509.3	13447.4	13288.3	13117.4	12890.5	12769.7	12563.5	12207.0	11812.1
5°	13883.5	13910.0	13898.2	13883.5	13821.6	13656.6	13367.8	13261.8	12958.3	12377.8	11664.8
7.5°	13176.3	13273.5	13285.3	13400.2	13509.3	13524.0	13415.0	13335.4	13055.5	12374.9	11402.6
10°	12239.4	12304.2	12398.5	12531.1	12793.3	13011.3	13117.4	13105.6	12943.6	12283.6	11096.2
12.5°	11293.6	11328.9	11473.3	11700.2	12021.3	12392.6	12675.4	12731.4	12734.4	12174.5	10839.8
15°	10480.4	10465.6	10577.6	10839.8	11290.6	11756.2	12262.9	12351.3	12492.8	12068.5	10601.2
17.5°	9785.0	9861.6	9879.3	10168.0	10583.5	11187.5	11832.8	11988.9	12271.8	11977.1	10403.8
20°	9354.8	9396.1	9434.4	9596.4	9970.6	10607.1	11429.1	11644.2	12065.5	11894.6	10182.8
22.5°	9228.1	9254.7	9222.2	9272.3	9537.5	10103.2	10990.1	11275.9	11868.1	11818.0	10003.0
25°	9325.4	9351.9	9275.3	9216.4	9307.7	9693.7	10565.8	10913.5	11709.0	11803.3	9867.5
27.5°	9561.1	9611.2	9505.1	9399.0	9346.0	9472.7	10232.9	10636.5	11600.0	11874.0	9805.6
30°	9929.4	9958.8	9879.3	9749.7	9628.8	9502.2	10059.0	10445.0	11570.5	12039.0	9799.7
32.5°	10330.1	10392.0	10347.8	10262.3	10106.2	9805.6	10109.1	10450.9	11641.2	12277.7	9873.4
35°	10825.1	10895.8	10937.1	10919.4	10719.0	10344.8	10427.3	10716.1	11829.8	12716.7	10073.8
37.5°	11311.2	11373.1	11605.9	11685.4	11508.7	11155.1	11046.1	11237.6	12245.3	13291.2	10436.2
40°	11868.1	11950.6	12277.7	12581.1	12495.7	12124.5	11924.1	12083.2	12881.7	14157.5	11122.7
42.5°	12401.4	12548.7	13046.7	13582.9	13662.5	13247.0	13114.4	13167.5	13824.5	15403.8	12080.3
45°	13158.6	13297.1	13939.4	14667.2	15041.4	14717.3	14581.8	14572.9	15118.0	17156.9	13633.0
47.5°	14251.8	14375.5	15132.7	15851.7	16517.5	16561.7	16305.4	16393.8	16744.4	19207.6	15536.4
50°	15592.4	15884.1	16382.0	17130.4	18020.2	18739.1	18818.7	18700.8	19001.4	21582.4	17822.8
52.5°	17539.9	17651.9	18108.6	18724.4	19767.4	20987.2	21933.0	21771.0	21676.7	23845.2	20132.8
55°	18992.5	19142.8	19852.9	20698.5	22227.7	23836.4	25887.1	25943.1	24752.7	26019.7	22392.7
57.5°	18553.5	18783.3	19858.8	21558.8	24920.7	27861.2	29387.4	29425.7	27599.0	28132.3	24944.3
60°	16299.5	16408.5	17949.5	20218.2	25150.5	32221.9	34352.1	34042.8	30495.3	30495.3	27198.3
62.5°	11558.7	11729.6	12978.9	16317.2	22713.8	33736.3	40298.0	39658.6	34484.7	32755.2	28541.8
65°	7386.6	7221.6	8049.6	10300.6	16921.2	31500.0	45474.8	45513.1	38238.4	33659.7	27808.2
67°	5350.7	5285.8	5524.5	7041.9	11473.3	26479.3	45583.8	47602.1	40395.2	33088.1	25462.8
67.5°	4894.0	4944.1	5117.9	6352.4	10424.4	24095.7	45088.8	47478.4	40881.4	32743.4	24614.3
70°	3709.5	3624.1	3812.6	4493.3	6249.3	15200.5	38786.5	43544.9	40277.3	29322.6	19667.2
72.5°	2728.4	2719.5	2981.8	3674.2	4811.5	8096.7	29116.4	34914.9	32905.4	22327.8	12383.7
75°	1841.5	1924.0	2342.4	3070.2	4360.7	5250.5	19849.9	25330.2	22843.5	12678.4	5061.9
77.5°	1048.9	1054.8	1508.6	2466.1	3915.8	4225.1	11762.0	16137.5	12092.0	4216.3	1502.7
80°	453.7	497.9	748.4	1791.4	3246.9	3741.9	6744.3	8868.7	4891.0	892.8	486.2
82.5°	167.9	197.4	330.0	1102.0	2368.9	3081.9	4074.9	4234.0	1658.8	315.3	303.5
85°	0.0	5.9	120.8	515.6	1234.5	1376.0	2722.5	2510.3	733.7	150.3	197.4
87.5°	0.0	0.0	0.0	53.0	162.1	512.7	845.6	942.8	176.8	53.0	47.1
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°	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4	11688.4
2.5°	11600.0	11408.5	10928.2	10447.9	10091.4	9793.8	9346.0	9101.4	8971.8	8780.3	8792.1
5°	11308.3	10919.4	10073.8	9198.7	8491.5	7802.1	6977.1	6644.1	6364.2	6205.1	6099.1
7.5°	10875.2	10300.6	9048.4	7881.6	6794.4	5589.3	4684.8	4080.8	3674.2	3523.9	3379.5
10°	10400.8	9637.7	8008.3	6390.8	4882.2	3638.8	2872.7	2318.8	2121.4	1938.7	1956.4
12.5°	9961.8	9033.7	7053.7	5044.2	3420.8	2312.9	1803.2	1576.3	1511.5	1490.9	1490.9
15°	9602.3	8456.2	6028.3	3792.0	2345.3	1661.8	1443.7	1381.9	1358.3	1352.4	1352.4
17.5°	9219.3	7908.1	5103.2	2802.0	1706.0	1390.7	1317.0	1275.8	1267.0	1261.1	1261.1
20°	8877.5	7357.2	4225.1	2086.1	1378.9	1252.2	1205.1	1178.6	1169.7	1163.8	1166.8
22.5°	8553.4	6868.1	3400.2	1576.3	1213.9	1140.3	1093.1	1066.6	1048.9	1034.2	1037.1
25°	8264.7	6396.6	2734.3	1290.5	1093.1	1028.3	981.2	942.8	904.5	886.9	883.9
27.5°	8061.4	5984.1	2130.3	1104.9	984.1	913.4	854.5	807.3	757.2	730.7	724.8
30°	7893.4	5565.8	1685.3	975.3	875.1	807.3	733.7	665.9	612.9	586.3	574.5
32.5°	7784.4	5168.0	1328.8	869.2	783.7	701.2	618.7	551.0	492.0	465.5	459.6
35°	7766.7	4835.0	1087.2	780.8	701.2	612.9	527.4	453.7	403.7	377.1	371.2
37.5°	7893.4	4578.7	910.4	710.1	633.5	536.2	442.0	374.2	330.0	309.4	306.4
40°	8232.3	4416.7	789.6	651.2	571.6	465.5	377.1	318.2	274.0	253.4	253.4
42.5°	8877.5	4422.6	710.1	595.2	509.7	397.8	321.2	265.2	226.9	209.2	203.3
45°	9885.2	4622.9	642.3	539.2	450.8	344.7	274.0	218.0	179.7	165.0	165.0
47.5°	11234.6	5020.7	583.4	483.2	397.8	294.6	232.8	176.8	144.4	129.6	129.6
50°	12999.5	5660.0	533.3	436.1	353.6	253.4	188.6	144.4	112.0	100.2	97.2
52.5°	14844.0	6449.7	474.4	394.8	303.5	215.1	153.2	112.0	85.4	76.6	73.7
55°	16879.9	7221.6	418.4	353.6	247.5	179.7	120.8	88.4	61.9	53.0	53.0
57.5°	18933.6	7978.9	350.6	294.6	194.5	132.6	94.3	64.8	41.2	32.4	32.4
60°	20672.0	8223.4	297.6	238.7	147.3	94.3	67.8	41.2	23.6	14.7	14.7
62.5°	20910.6	7398.4	250.4	182.7	106.1	64.8	35.4	23.6	8.8	5.9	5.9
65°	19614.2	6010.7	209.2	138.5	70.7	32.4	14.7	8.8	2.9	0.0	0.0
67°	17575.3	4873.4	170.9	103.1	50.1	20.6	8.8	2.9	0.0	0.0	0.0
67.5°	17053.8	4646.5	165.0	97.2	44.2	17.7	5.9	2.9	0.0	0.0	0.0
70°	13382.6	3479.7	117.9	58.9	26.5	11.8	0.0	0.0	0.0	0.0	0.0
72.5°	8317.7	1968.2	85.4	35.4	17.7	5.9	0.0	0.0	0.0	0.0	0.0
75°	3143.8	689.5	58.9	23.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	978.2	262.2	35.4	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	330.0	100.2	23.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	203.3	41.2	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	126.7	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.6	5.9	2.9	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)