

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: P458099

Luminaire Tested: **GALN-SA9C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458099
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-SA9C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 39133 lumens
Efficiency: N/A
Efficacy: 81.4 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

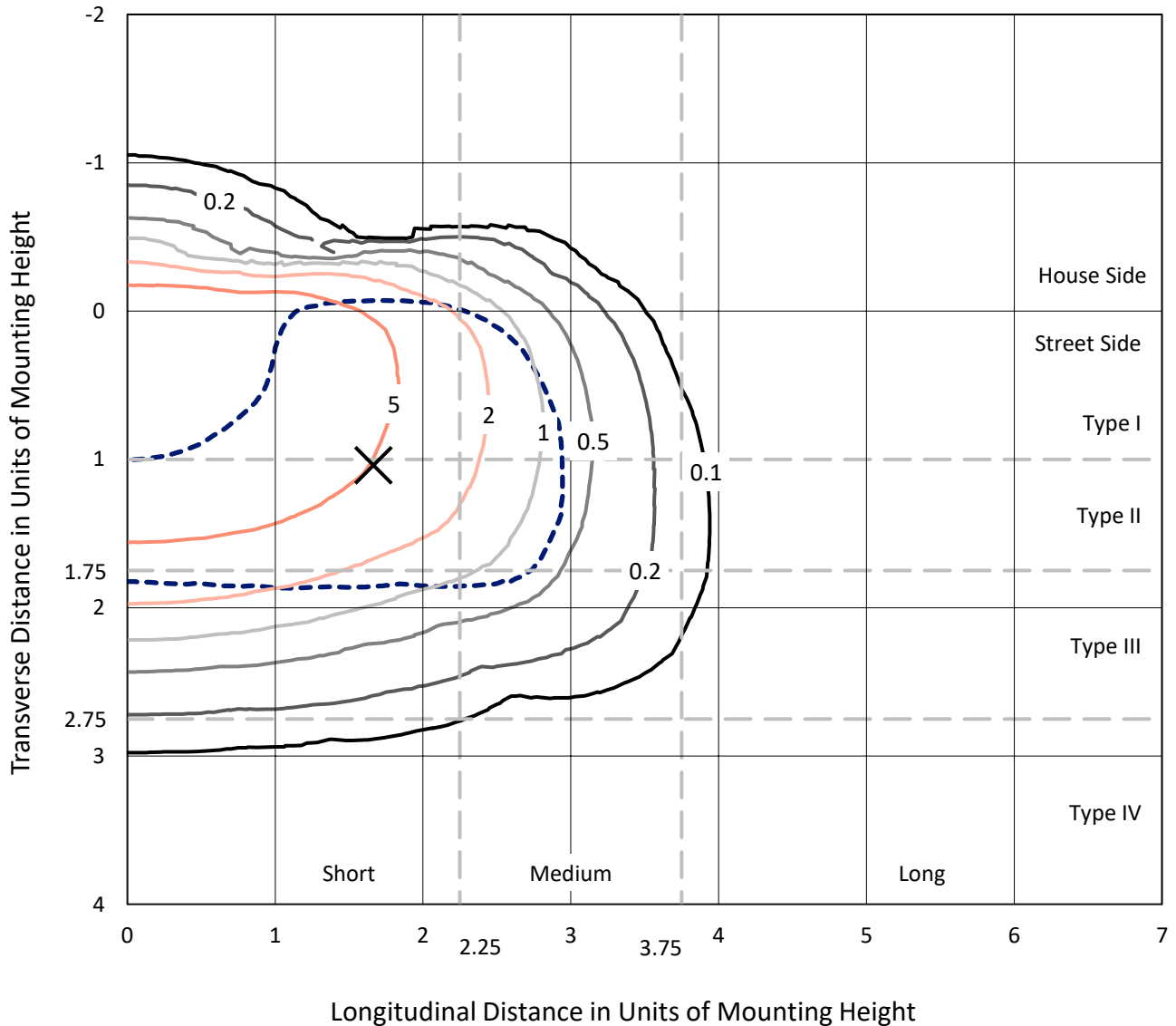
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

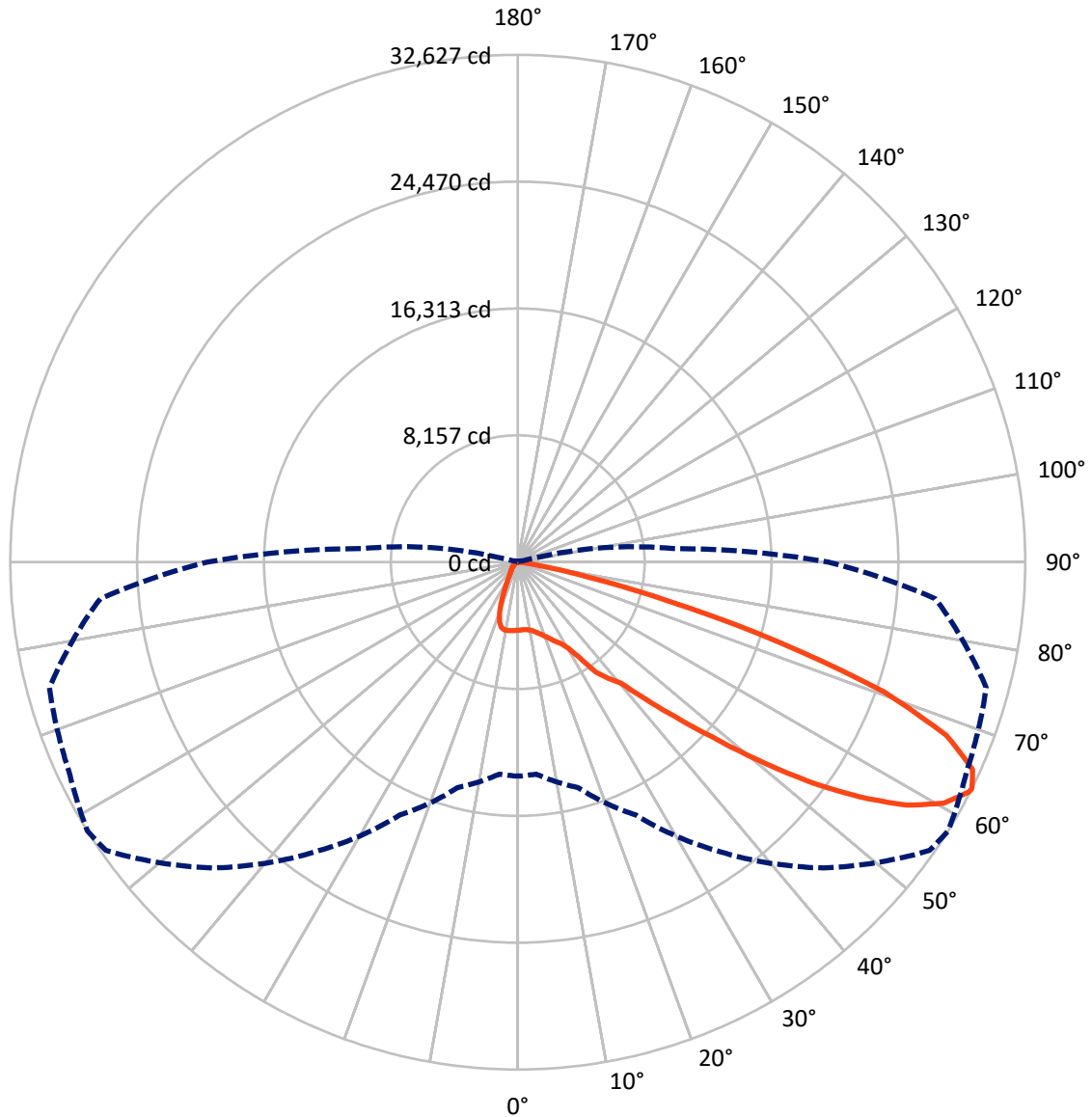
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4052.0	0.0	4052.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	35081.0	0.0	35081.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	39133.0	0.0	39133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	1.0
10°-20°	1117.0	2.9
20°-30°	1938.7	5.0
30°-40°	3562.6	9.1
40°-50°	6706.4	17.1
50°-60°	11470.8	29.3
60°-70°	10983.3	28.1
70°-80°	2800.8	7.2
80°-90°	143.2	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°	39133.0	100.0
0°-180°	39133.0	100.0



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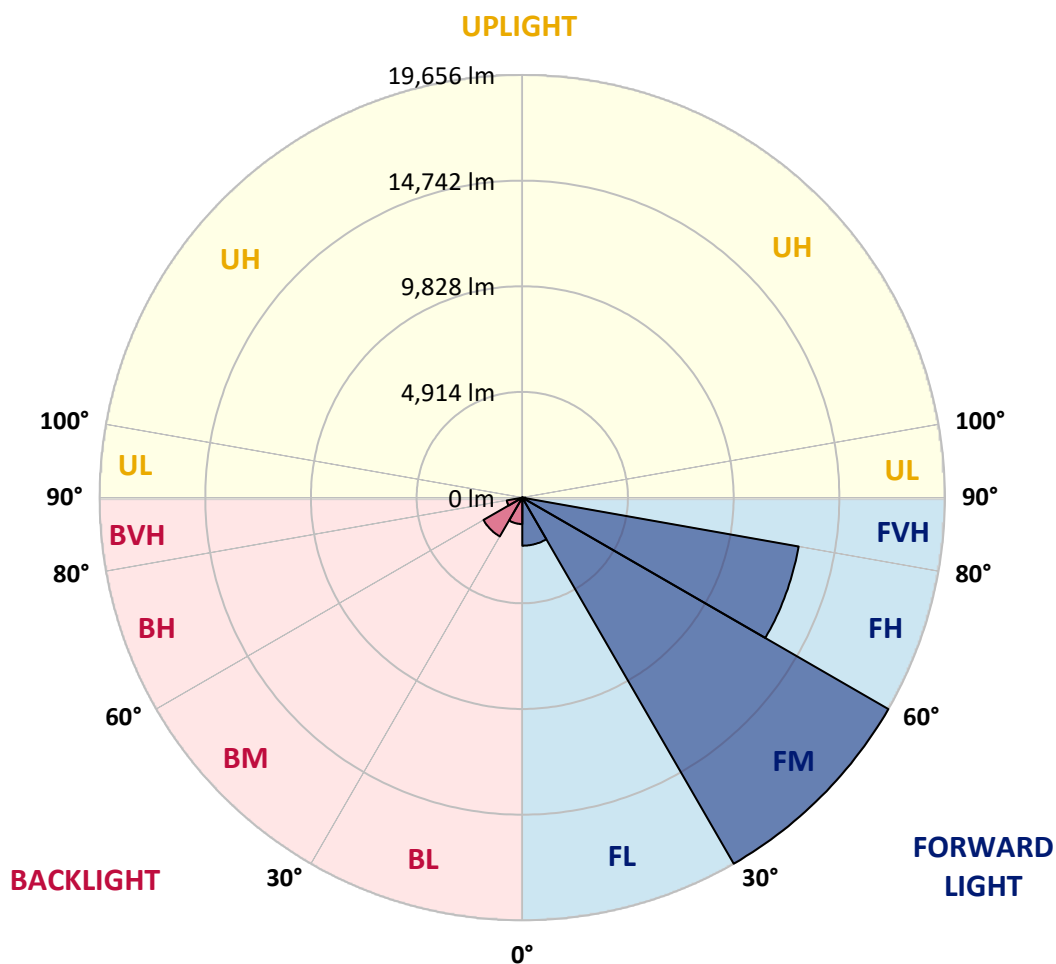
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.0	5.7			
FM (30°-60°)	19655.7	50.2			
FH (60°-80°)	13050.6	33.3			G5
FVH (80°-90°)	137.7	0.4			G2/225
BL (0°-30°)	1228.8	3.1	B3/2500		
BM (30°-60°)	2084.1	5.3	B2/2500		
BH (60°-80°)	733.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1
2.5°	4272.1	4286.8	4301.5	4307.4	4328.1	4348.7	4363.4	4360.5	4384.0	4395.8	4395.8
5°	4101.2	4101.2	4139.5	4174.9	4233.8	4292.7	4348.7	4360.5	4404.7	4445.9	4460.6
7.5°	3956.8	3965.7	3995.1	4059.9	4139.5	4242.6	4354.6	4381.1	4457.7	4549.0	4587.3
10°	3889.1	3895.0	3933.3	4001.0	4101.2	4242.6	4398.8	4448.9	4566.7	4711.1	4764.1
12.5°	3874.3	3883.2	3921.5	3998.1	4113.0	4283.9	4496.0	4549.0	4719.9	4905.5	4985.1
15°	3900.9	3906.7	3945.0	4027.5	4154.2	4357.5	4625.6	4699.3	4902.6	5117.7	5220.8
17.5°	3995.1	3989.2	4015.8	4083.5	4224.9	4448.9	4781.8	4870.2	5108.8	5403.4	5471.2
20°	4395.8	4357.5	4334.0	4275.0	4331.0	4578.5	4970.3	5100.0	5394.6	5695.1	5742.3
22.5°	5259.1	5173.6	5005.7	4775.9	4599.1	4755.3	5197.2	5347.5	5727.5	6022.2	6022.2
25°	6358.0	6249.0	6081.1	5580.2	5147.1	5046.9	5453.5	5642.1	6089.9	6387.5	6290.3
27.5°	7733.9	7648.5	7321.5	6738.1	6075.2	5556.6	5751.1	5924.9	6411.1	6770.5	6567.2
30°	8853.5	8812.3	8544.2	8022.7	7292.0	6534.8	6305.0	6419.9	6838.3	7253.7	7044.5
32.5°	9799.3	9799.3	9525.3	9039.1	8355.6	7683.8	7244.9	7327.4	7728.0	8208.3	7819.4
35°	10839.3	10803.9	10583.0	10120.4	9354.4	8762.2	8582.5	8694.4	9056.8	9413.3	8455.8
37.5°	11932.4	11920.6	11690.8	11242.9	10618.3	9872.9	9451.6	9481.1	9666.7	9884.7	9201.2
40°	13119.7	13137.4	12836.9	12559.9	11970.7	11207.6	10400.3	10214.7	10388.5	11004.3	10577.1
42.5°	14522.1	14480.9	14351.2	13974.1	13499.8	13043.1	12073.8	12006.0	12159.2	12819.2	12356.6
45°	16151.4	16210.3	15986.4	15777.2	15459.0	15079.0	14268.7	14150.9	14318.8	15344.1	14687.1
47.5°	17783.6	17727.7	17872.0	17833.7	18004.6	17721.8	17005.8	16764.2	17167.9	18140.1	17173.8
50°	19027.0	19088.8	19389.3	19828.3	20562.0	20721.1	20034.6	19952.1	20131.8	20756.4	19398.2
52.5°	19834.2	20040.5	20511.9	21640.3	22963.2	23991.4	23469.9	23425.7	23352.1	23520.0	21525.4
55°	20361.6	20570.8	21186.6	22848.3	25125.7	26796.2	26822.8	26634.2	26148.1	26027.3	23514.1
57.5°	20037.5	20078.8	20956.8	23178.2	26324.8	28796.8	29663.0	29474.4	28575.8	28119.1	25270.1
60°	18010.5	18095.9	19318.6	21929.0	25803.4	29450.8	31545.6	31460.2	30476.1	29960.5	26637.1
62.5°	14419.0	14666.5	15924.5	18835.4	23378.6	28348.9	32308.7	32550.3	31784.3	31074.2	27067.3
63°	13759.0	13679.5	15008.3	17933.9	22736.3	27803.9	32320.5	32626.9	31843.2	31180.3	26949.5
65°	10185.2	10423.9	11287.1	14142.1	18920.9	25267.1	31592.8	32134.9	31625.2	30711.8	25644.3
67.5°	5718.7	5706.9	6661.5	9254.2	13243.4	19819.5	28567.0	29713.0	29607.0	27559.3	21257.3
70°	2798.9	2843.1	3235.0	4796.5	7680.9	13673.6	23738.0	24975.5	25013.8	21646.2	14698.9
72.5°	1266.9	1287.5	1567.4	2336.4	3948.0	7280.2	16357.6	17539.1	17321.1	13794.4	8117.0
75°	668.8	713.0	863.3	1175.6	1903.3	3002.2	8897.7	10040.9	9584.2	6302.1	2987.5
77.5°	495.0	509.7	586.3	748.4	1019.4	1169.7	3839.0	4566.7	4278.0	2280.4	989.9
80°	362.4	374.2	436.0	530.3	642.3	595.1	1446.6	1658.7	1487.9	774.9	303.5
82.5°	221.0	223.9	318.2	394.8	403.6	332.9	477.3	512.6	536.2	436.0	165.0
85°	79.5	100.2	215.1	285.8	238.6	167.9	200.3	221.0	241.6	276.9	97.2
87.5°	8.8	11.8	103.1	138.5	67.8	61.9	73.7	82.5	88.4	103.1	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°	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1	4381.1
2.5°	4407.6	4419.4	4410.6	4395.8	4392.9	4384.0	4366.4	4366.4	4366.4	4372.3	4366.4
5°	4472.4	4481.3	4460.6	4431.2	4398.8	4357.5	4313.3	4286.8	4283.9	4278.0	4263.2
7.5°	4596.2	4608.0	4560.8	4490.1	4401.7	4301.5	4207.3	4118.9	4077.6	4045.2	4045.2
10°	4775.9	4787.7	4693.4	4566.7	4389.9	4186.6	3962.7	3759.4	3600.3	3526.7	3509.0
12.5°	4991.0	4996.9	4840.7	4619.7	4328.1	3936.2	3458.9	3014.0	2704.7	2563.2	2548.5
15°	5226.7	5185.4	4979.2	4640.4	4151.3	3420.6	2595.7	2050.6	1729.5	1635.2	1670.5
17.5°	5465.3	5388.7	5085.2	4608.0	3753.5	2595.7	1744.2	1399.5	1299.3	1272.8	1272.8
20°	5689.2	5583.2	5161.8	4466.5	3064.1	1788.4	1293.4	1210.9	1193.2	1175.6	1178.5
22.5°	5913.1	5751.1	5229.6	4151.3	2283.4	1278.7	1157.9	1131.4	1107.8	1084.2	1081.3
25°	6131.2	5907.3	5256.1	3567.9	1555.6	1099.0	1057.7	1022.4	975.2	948.7	942.8
27.5°	6358.0	6095.8	5238.5	2831.4	1134.3	984.1	942.8	892.7	836.7	789.6	789.6
30°	6794.1	6455.3	5176.6	2035.9	954.6	866.2	813.2	733.6	671.7	624.6	621.7
32.5°	7389.2	6923.7	4964.5	1431.9	848.5	763.1	683.5	595.1	530.3	495.0	495.0
35°	7919.6	7395.1	4566.7	1054.8	763.1	662.9	565.7	480.2	430.2	406.6	397.7
37.5°	8726.8	8084.5	4018.7	857.4	680.6	574.5	474.3	394.8	353.6	335.9	335.9
40°	9937.7	8927.2	3347.0	751.3	601.0	489.1	394.8	332.9	300.5	279.9	279.9
42.5°	11440.3	9958.4	2666.4	674.7	527.4	421.3	330.0	282.8	253.4	238.6	235.7
45°	13331.8	11045.5	2053.5	604.0	468.5	359.4	279.9	238.6	209.2	200.3	203.3
47.5°	15305.8	12003.1	1591.0	542.1	406.6	303.5	238.6	206.2	185.6	173.8	173.8
50°	16991.1	12663.0	1208.0	471.4	359.4	256.3	209.2	185.6	167.9	162.0	159.1
52.5°	18399.4	12854.5	925.1	409.5	315.2	221.0	185.6	167.9	153.2	144.4	144.4
55°	19598.5	12686.6	724.8	344.7	265.2	191.5	165.0	150.3	132.6	123.7	120.8
57.5°	20299.7	12147.4	553.9	285.8	215.1	159.1	144.4	126.7	106.1	91.3	91.3
60°	20653.3	11363.7	424.3	235.7	165.0	126.7	117.9	94.3	73.7	61.9	58.9
62.5°	20229.0	10323.7	321.1	185.6	123.7	94.3	79.5	67.8	47.1	35.4	35.4
63°	19966.8	10023.2	309.4	176.8	114.9	88.4	73.7	61.9	41.2	32.4	29.5
65°	18202.0	8712.1	253.4	141.4	91.3	61.9	50.1	44.2	29.5	14.7	11.8
67.5°	14454.4	6664.4	200.3	106.1	64.8	44.2	29.5	26.5	8.8	0.0	0.0
70°	9772.7	4304.5	156.2	76.6	44.2	26.5	14.7	11.8	2.9	0.0	0.0
72.5°	5097.0	2206.7	120.8	56.0	26.5	17.7	8.8	2.9	0.0	0.0	0.0
75°	1803.1	751.3	88.4	35.4	17.7	8.8	2.9	0.0	0.0	0.0	0.0
77.5°	545.1	279.9	56.0	26.5	11.8	5.9	0.0	0.0	0.0	0.0	0.0
80°	191.5	103.1	32.4	17.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	94.3	50.1	20.6	14.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	53.0	32.4	17.7	14.7	8.8	5.9	0.0	0.0	0.0	0.0	0.0
87.5°	38.3	23.6	17.7	14.7	11.8	5.9	2.9	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)