

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: P459451

Luminaire Tested: **GALN-SA9A-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459451
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-SA9A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 31768 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

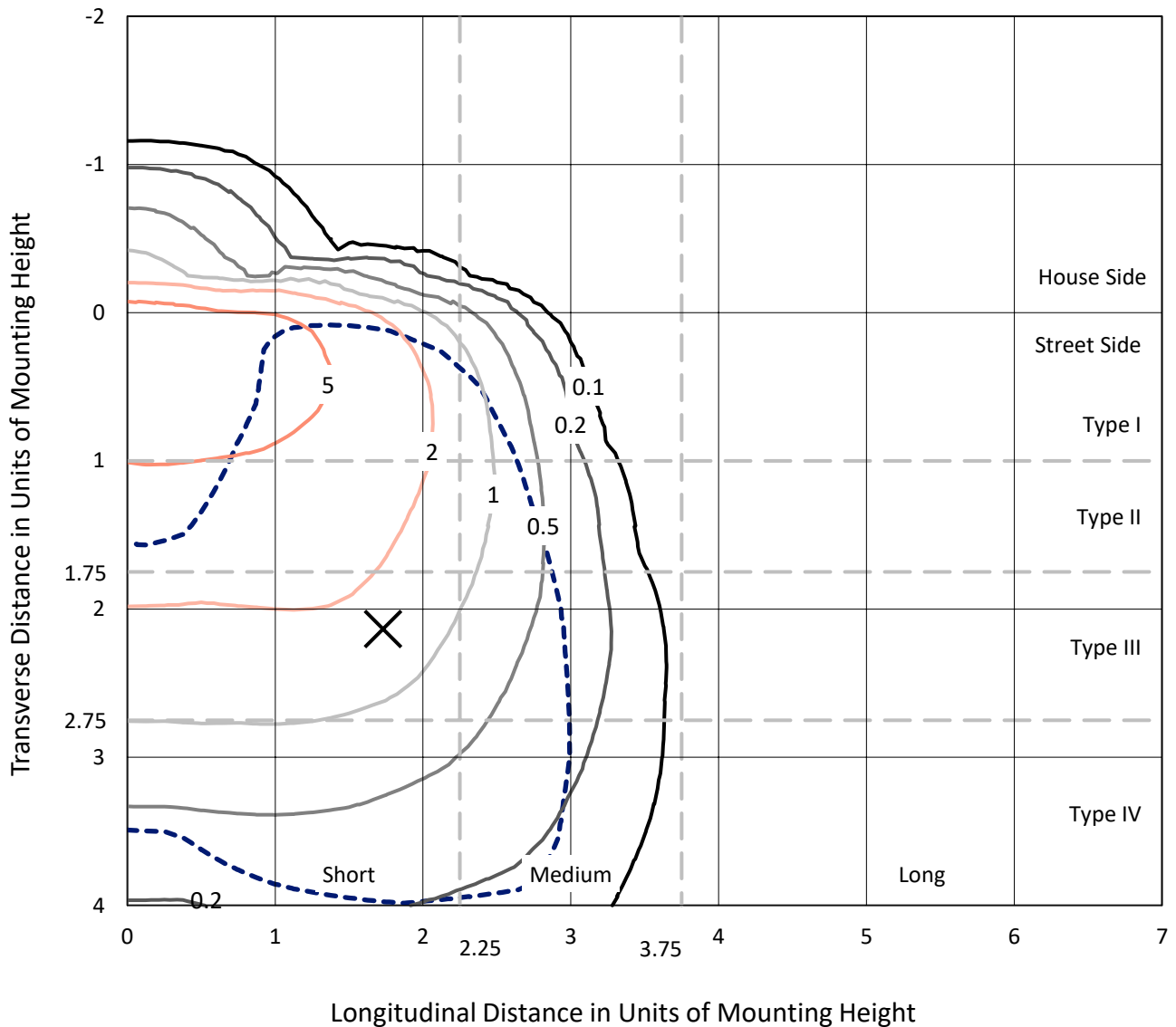
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

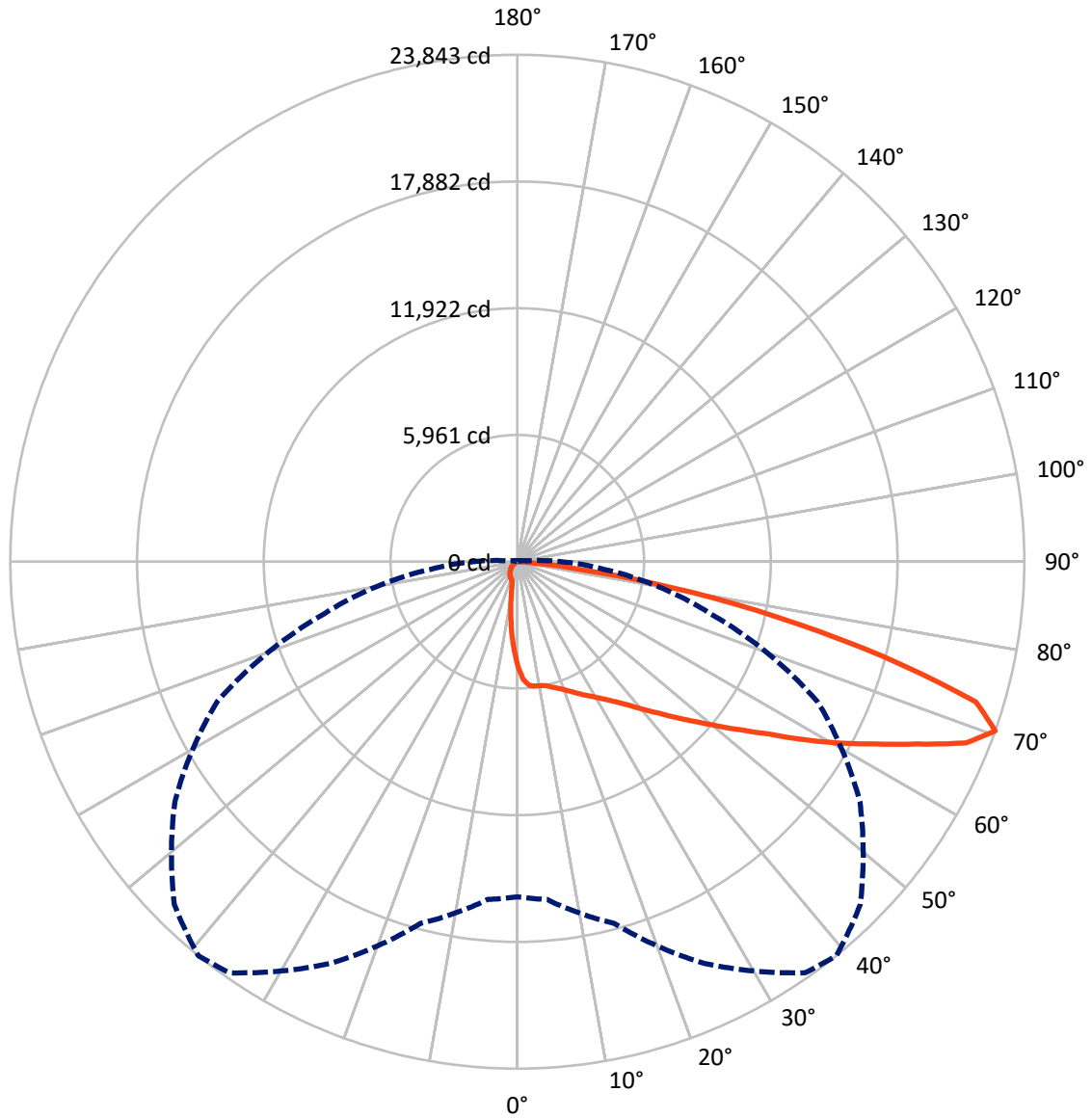
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2071.4	0.0	2071.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29696.6	0.0	29696.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	31768.0	0.0	31768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.3
10°-20°	1098.7	3.5
20°-30°	1840.6	5.8
30°-40°	2854.6	9.0
40°-50°	4523.7	14.2
50°-60°	6631.1	20.9
60°-70°	8499.4	26.8
70°-80°	5340.8	16.8
80°-90°	556.4	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°	31768.0	100.0
0°-180°	31768.0	100.0

Coefficient of Utilization



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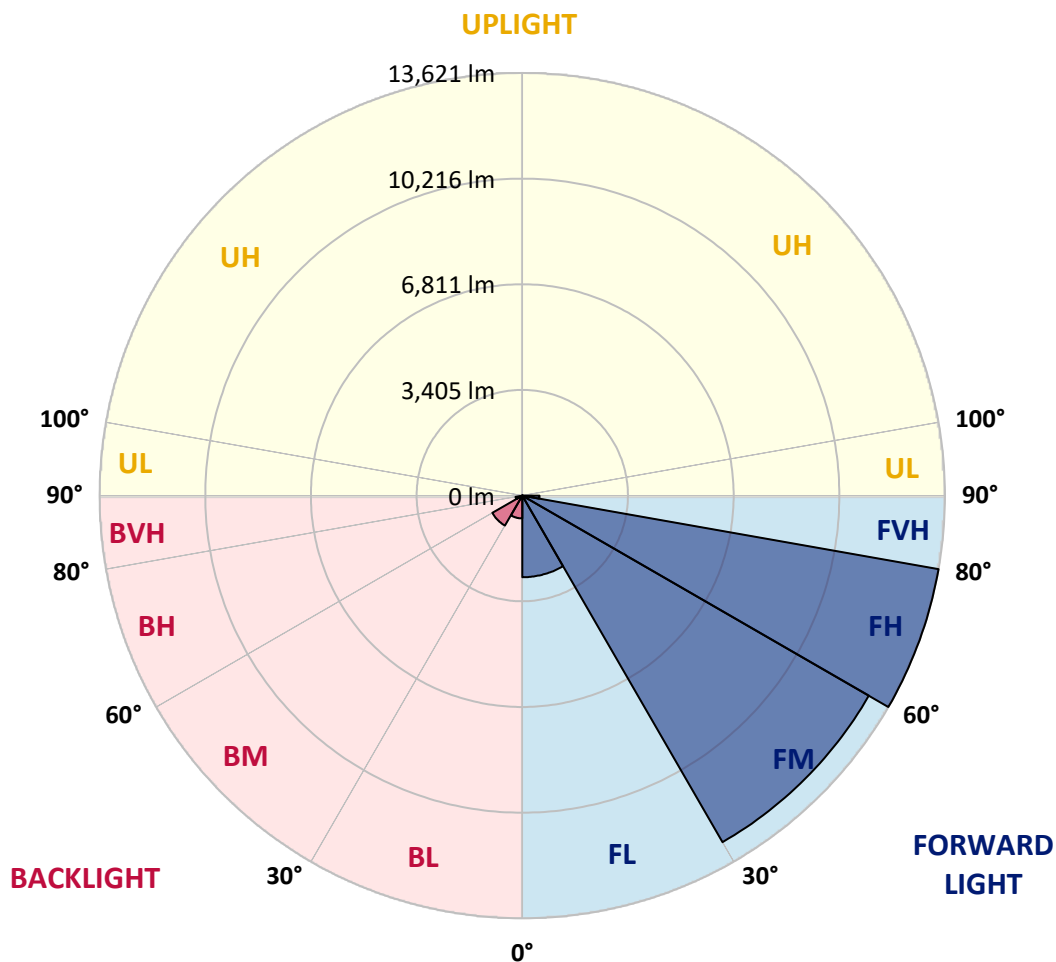
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2628.6	8.3			
FM	(30°-60°)	12894.6	40.6			
FH	(60°-80°)	13621.1	42.9			G5
FVH	(80°-90°)	552.3	1.7			G4/750
BL	(0°-30°)	733.5	2.3	B2/1000		
BM	(30°-60°)	1114.8	3.5	B2/2500		
BH	(60°-80°)	219.1	0.7	B1/500		G1/500
BVH	(80°-90°)	4.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9
2.5°	5727.5	5708.3	5682.7	5652.8	5567.4	5552.5	5501.3	5392.4	5262.2	5155.4	5008.1
5°	5998.7	6009.3	5990.1	5936.7	5874.8	5838.6	5774.5	5605.9	5437.2	5221.6	4980.4
7.5°	6060.6	6081.9	6058.4	6007.2	5947.4	5909.0	5857.8	5712.6	5516.2	5270.7	4939.8
10°	6054.2	6079.8	6064.8	6017.9	5968.8	5932.5	5877.0	5761.7	5603.7	5345.4	4952.6
12.5°	6043.5	6077.6	6075.5	6052.0	6011.5	5983.7	5949.6	5847.1	5699.8	5454.3	5023.1
15°	6013.6	6056.3	6094.7	6113.9	6116.1	6116.1	6073.4	5964.5	5823.6	5597.3	5114.9
17.5°	6026.4	6075.5	6171.6	6227.1	6265.5	6261.2	6216.4	6099.0	5943.2	5744.6	5210.9
20°	6105.4	6171.6	6306.1	6417.1	6455.5	6442.7	6382.9	6246.3	6069.1	5870.6	5304.9
22.5°	6299.7	6359.4	6528.1	6658.3	6686.0	6651.9	6566.5	6380.8	6220.7	6007.2	5418.0
25°	6590.0	6660.4	6816.3	6914.5	6914.5	6895.3	6775.7	6558.0	6391.5	6197.2	5565.3
27.5°	6942.2	7002.0	7155.7	7243.2	7192.0	7136.5	7016.9	6754.4	6594.3	6436.3	5742.5
30°	7298.7	7337.1	7499.4	7537.8	7484.4	7414.0	7285.9	7023.3	6882.4	6760.8	5998.7
32.5°	7636.0	7719.3	7853.8	7845.2	7772.6	7738.5	7621.1	7341.4	7262.4	7249.6	6357.3
35°	7973.3	8037.3	8156.9	8186.8	8122.7	8116.3	8030.9	7823.9	7826.0	7909.3	6916.6
37.5°	8263.6	8321.3	8462.2	8528.3	8541.1	8573.2	8539.0	8402.4	8596.7	8825.1	7657.4
40°	8507.0	8588.1	8767.4	8882.7	9015.1	9132.5	9138.9	9168.8	9559.4	9952.2	8624.4
42.5°	8697.0	8810.1	9070.6	9284.0	9587.2	9736.6	9856.2	10020.5	10678.0	11265.1	9764.4
45°	8944.6	9074.8	9399.3	9734.5	10208.4	10453.9	10620.4	11060.2	11993.0	12793.6	10934.2
47.5°	9354.5	9422.8	9753.7	10242.5	10865.9	11216.0	11540.5	12206.5	13404.1	14121.4	11907.7
50°	9881.8	9926.6	10176.4	10855.2	11662.2	12123.3	12714.6	13498.0	14868.6	15222.9	12458.4
52.5°	10464.6	10479.5	10667.4	11529.8	12554.5	13135.1	13796.9	14764.0	16061.9	16008.5	12823.5
55°	11141.3	11119.9	11280.0	12262.0	13611.2	14275.1	15045.7	16059.8	17097.2	16565.7	13032.7
57.5°	11916.2	11858.6	12014.4	13233.3	14964.6	15758.8	16542.2	17178.4	17899.9	17033.2	13133.0
60°	12727.4	12612.1	12797.8	14324.2	16559.3	17312.9	17964.0	18134.7	18745.3	17404.6	12960.1
62.5°	13374.2	13376.4	13722.2	15485.5	18198.8	18858.4	19204.2	19357.9	19473.2	17323.5	12050.7
65°	14384.0	14418.1	14971.0	17097.2	20096.6	20668.7	20905.6	20406.1	19505.2	16315.9	10684.4
67.5°	15425.7	15534.6	16546.5	19317.4	22289.0	22750.1	22444.8	20608.9	18634.3	14016.8	8101.4
70°	15765.2	15944.5	17611.7	20845.9	23604.0	23843.1	22809.8	19663.2	15577.3	9371.6	4077.4
72.5°	14445.9	14736.2	16999.0	20288.7	22765.0	22557.9	20408.2	16491.0	9903.1	3558.6	1244.6
75°	10187.0	10315.1	14127.8	16830.4	18309.8	17722.7	15523.9	10631.1	4073.1	999.1	427.0
77.5°	5260.0	5198.1	8402.4	11166.9	13058.3	12449.9	10165.7	5503.4	1543.4	416.3	264.7
80°	2719.7	2764.5	3635.5	5851.4	7971.2	7335.0	5420.1	2551.0	821.9	230.6	202.8
82.5°	1524.2	1430.3	2089.9	2555.3	3727.3	2922.5	2079.2	1806.0	358.6	138.8	192.1
85°	277.5	290.3	1146.4	1381.2	1293.7	821.9	670.3	1206.1	104.6	76.9	134.5
87.5°	4.3	4.3	222.0	397.1	251.9	115.3	211.3	172.9	21.3	29.9	23.5
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°	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9	4956.9
2.5°	4933.4	4852.3	4700.7	4551.3	4361.3	4205.5	4100.9	3992.0	3881.0	3889.5	3915.1
5°	4848.0	4707.1	4408.3	4092.3	3789.2	3515.9	3247.0	3005.7	2907.5	2817.9	2822.1
7.5°	4762.6	4564.1	4126.5	3631.2	3172.2	2706.9	2369.6	2092.1	1944.8	1833.8	1801.7
10°	4724.2	4461.6	3868.2	3187.2	2536.1	2028.0	1594.7	1368.4	1193.3	1137.8	1152.8
12.5°	4741.3	4410.4	3635.5	2785.9	2010.9	1413.2	1110.1	994.8	956.4	950.0	945.7
15°	4773.3	4374.1	3407.1	2341.8	1477.2	1050.3	932.9	911.5	907.3	903.0	905.1
17.5°	4816.0	4342.1	3163.7	1925.5	1133.6	917.9	883.8	873.1	871.0	871.0	871.0
20°	4858.7	4305.8	2892.6	1554.1	945.7	866.7	845.4	839.0	836.8	836.8	834.7
22.5°	4907.8	4273.8	2617.2	1221.1	871.0	830.4	811.2	806.9	804.8	802.7	802.7
25°	4978.2	4233.2	2324.7	999.1	824.0	796.3	777.1	772.8	770.6	762.1	764.2
27.5°	5072.2	4203.3	2023.7	862.4	781.3	753.6	740.8	734.4	730.1	723.7	725.8
30°	5200.3	4177.7	1703.5	787.7	732.2	708.7	695.9	691.7	687.4	681.0	681.0
32.5°	5422.3	4188.4	1366.2	728.0	687.4	659.6	646.8	642.6	638.3	631.9	631.9
35°	5755.3	4250.3	1093.0	676.7	634.0	606.3	593.5	593.5	587.1	578.5	576.4
37.5°	6299.7	4408.3	877.4	627.6	582.8	557.2	542.2	538.0	531.6	518.7	516.6
40°	6942.2	4653.8	738.6	578.5	535.8	510.2	497.4	484.6	467.5	454.7	452.6
42.5°	7749.2	4905.7	640.4	529.4	491.0	467.5	452.6	431.2	405.6	388.5	386.4
45°	8590.2	5136.2	574.2	484.6	448.3	429.1	412.0	377.9	345.8	324.5	322.3
47.5°	9217.9	5178.9	520.9	441.9	412.0	392.8	369.3	326.6	283.9	264.7	258.3
50°	9514.6	4971.8	465.4	399.2	375.7	354.4	324.5	275.4	228.4	204.9	200.7
52.5°	9619.2	4613.2	420.5	360.8	339.4	313.8	277.5	222.0	179.3	155.8	153.7
55°	9576.5	4160.6	380.0	324.5	296.7	266.8	230.6	177.2	132.4	113.1	108.9
57.5°	9352.4	3584.3	339.4	288.2	254.0	224.1	183.6	132.4	89.7	72.6	70.4
60°	8748.2	2798.7	298.9	247.6	215.6	183.6	145.2	93.9	55.5	40.6	40.6
62.5°	7727.8	2077.1	260.4	207.1	181.5	147.3	102.5	59.8	29.9	21.3	19.2
65°	6457.6	1532.8	217.7	175.0	151.6	115.3	72.6	36.3	14.9	6.4	4.3
67.5°	4506.5	945.7	181.5	143.0	123.8	83.3	44.8	14.9	6.4	0.0	0.0
70°	2047.2	450.4	138.8	108.9	93.9	59.8	23.5	8.5	4.3	0.0	0.0
72.5°	636.2	237.0	98.2	79.0	64.0	38.4	12.8	6.4	4.3	0.0	0.0
75°	294.6	151.6	61.9	42.7	36.3	19.2	8.5	4.3	2.1	0.0	0.0
77.5°	219.9	117.4	36.3	23.5	19.2	12.8	6.4	4.3	2.1	0.0	0.0
80°	192.1	59.8	21.3	14.9	10.7	8.5	4.3	2.1	0.0	0.0	0.0
82.5°	172.9	29.9	12.8	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0
85°	93.9	17.1	8.5	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.1	8.5	6.4	4.3	4.3	2.1	2.1	2.1	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)