

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: P459161

Luminaire Tested: **GALN-SA6C-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459161
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-SA6C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 31945 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

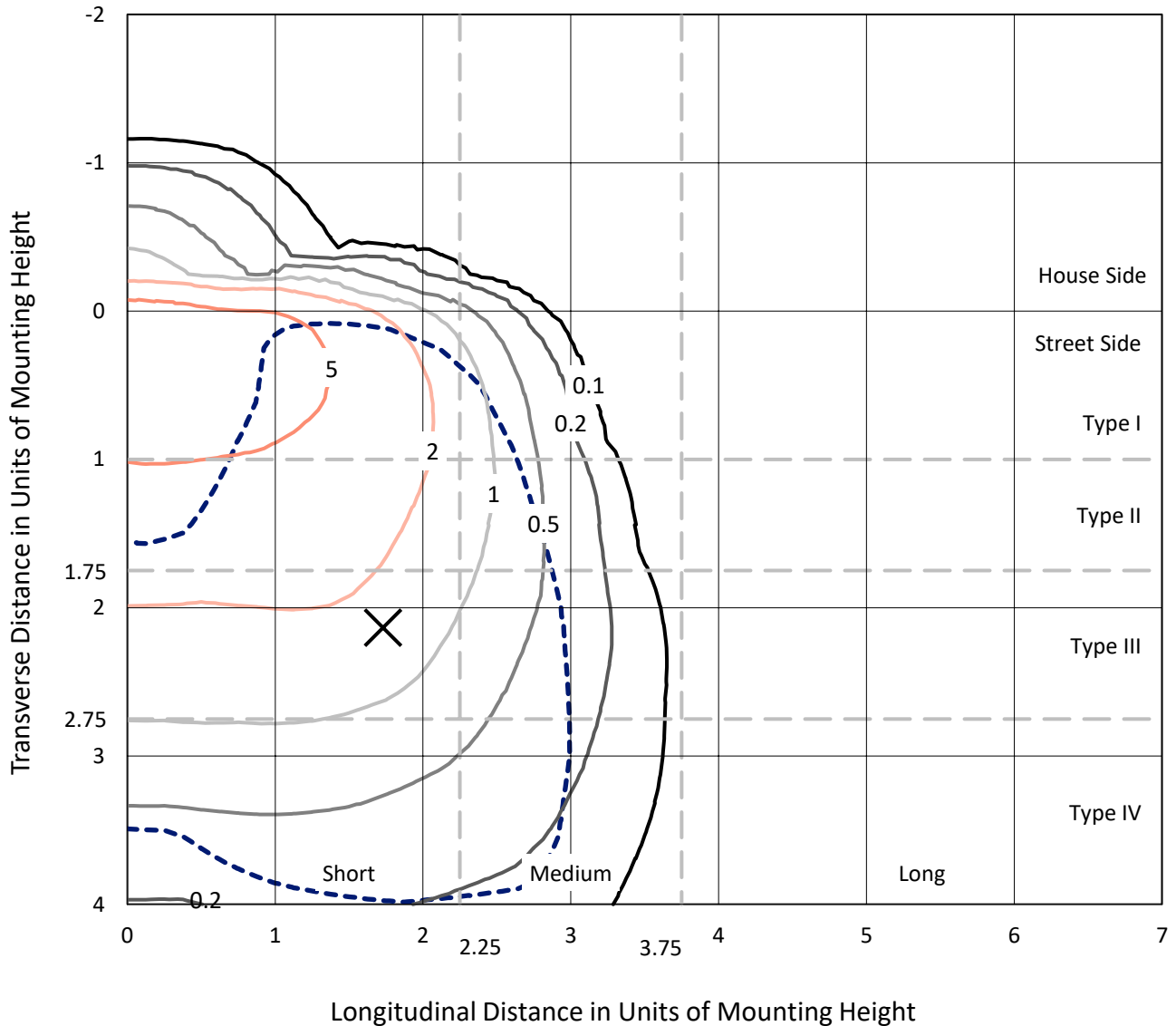
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

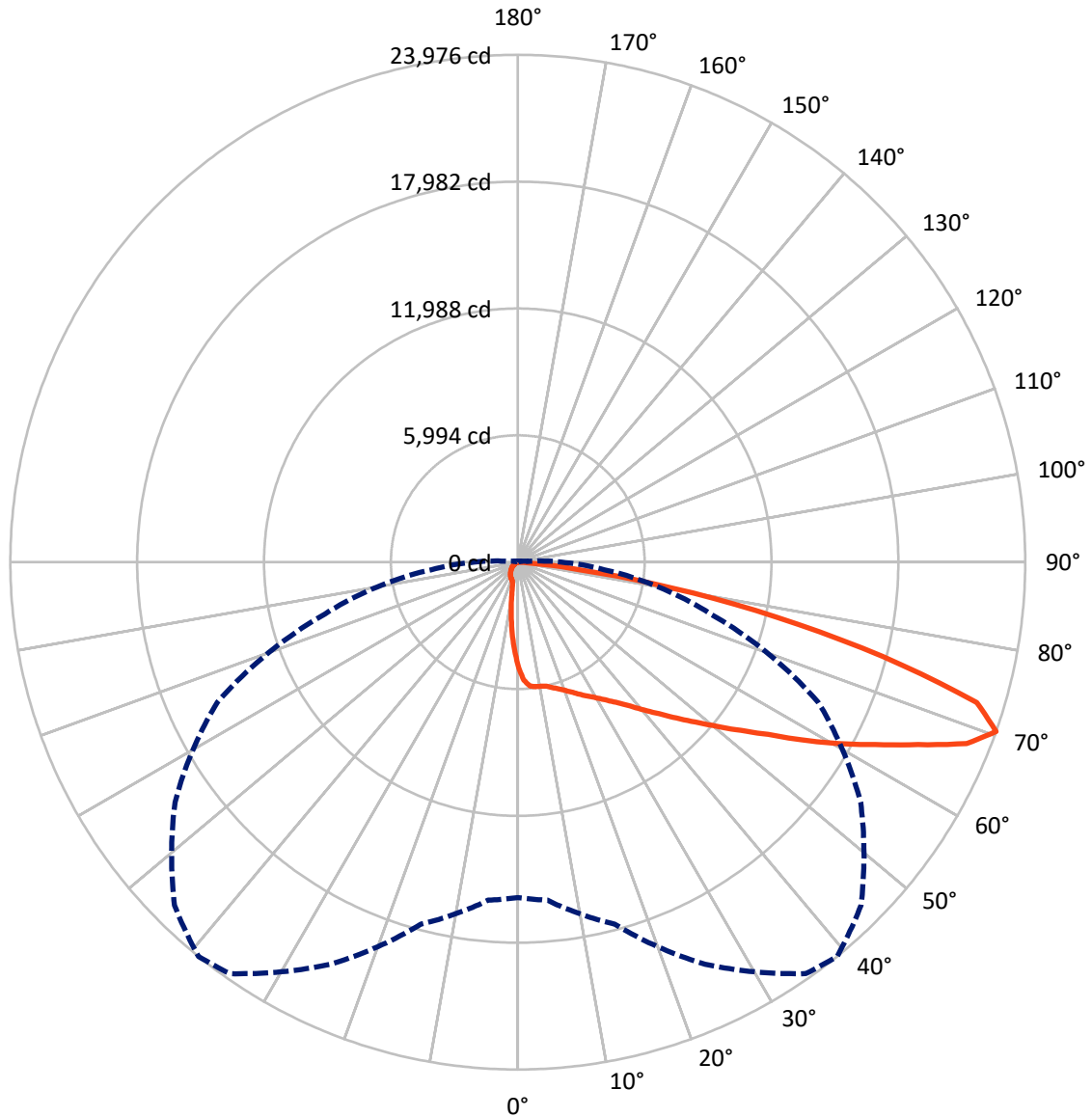
× Max cd
 - - - 1/2 Max cd



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	2083.0	0.0	2083.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29862.0	0.0	29862.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	31945.0	0.0	31945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	1.3
10°-20°	1104.8	3.5
20°-30°	1850.9	5.8
30°-40°	2870.5	9.0
40°-50°	4548.9	14.2
50°-60°	6668.0	20.9
60°-70°	8546.8	26.8
70°-80°	5370.5	16.8
80°-90°	559.5	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°	31945.0	100.0
0°-180°	31945.0	100.0

Coefficient of Utilization



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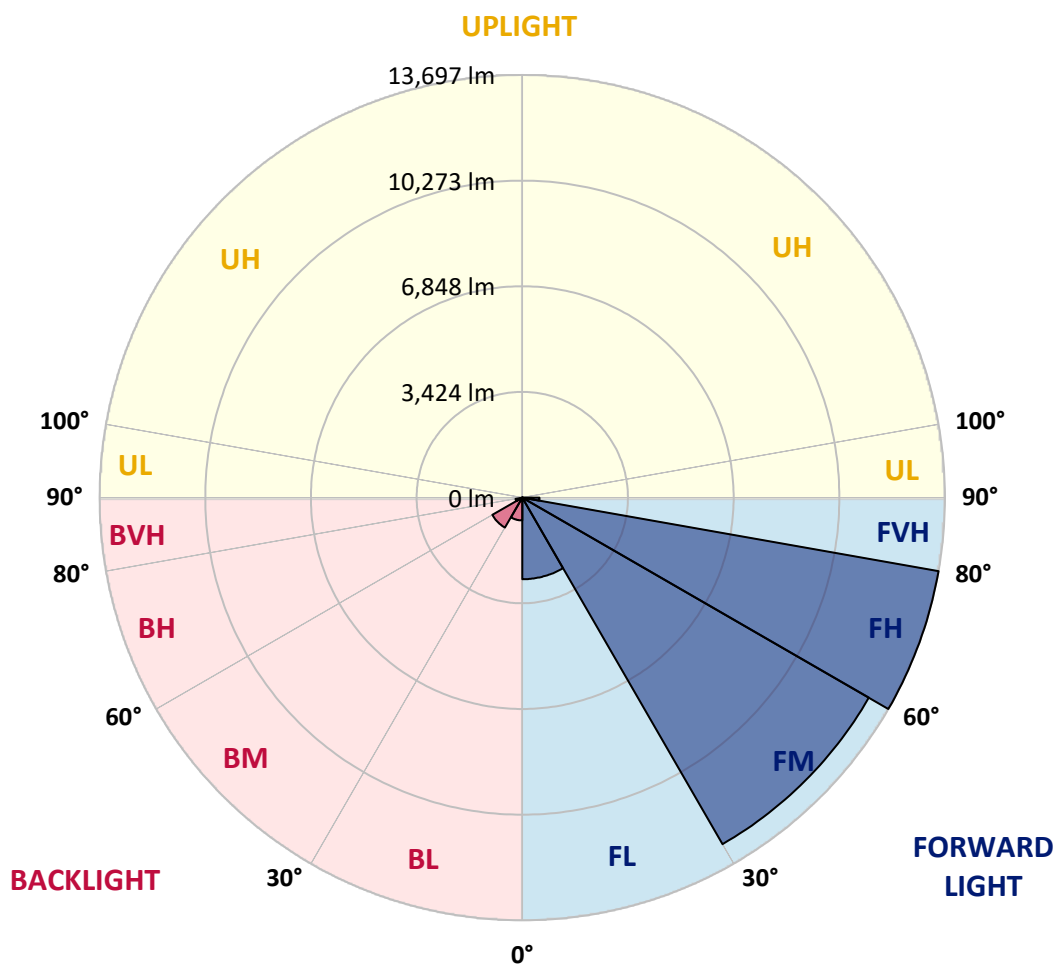
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.3	8.3			
FM (30°-60°)	12966.4	40.6			
FH (60°-80°)	13697.0	42.9			G5
FVH (80°-90°)	555.4	1.7			G4/750
BL (0°-30°)	737.6	2.3	B2/1000		
BM (30°-60°)	1121.0	3.5	B2/2500		
BH (60°-80°)	220.3	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°	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5
2.5°	5759.5	5740.1	5714.4	5684.3	5598.5	5583.4	5531.9	5422.4	5291.5	5184.2	5036.0
5°	6032.1	6042.8	6023.5	5969.8	5907.6	5871.1	5806.7	5637.1	5467.5	5250.7	5008.1
7.5°	6094.3	6115.8	6092.2	6040.7	5980.6	5941.9	5890.4	5744.4	5546.9	5300.1	4967.3
10°	6087.9	6113.7	6098.6	6051.4	6002.0	5965.5	5909.7	5793.8	5634.9	5375.2	4980.2
12.5°	6077.2	6111.5	6109.4	6085.7	6045.0	6017.1	5982.7	5879.7	5731.5	5484.7	5051.1
15°	6047.1	6090.0	6128.7	6148.0	6150.1	6150.1	6107.2	5997.7	5856.1	5628.5	5143.4
17.5°	6060.0	6109.4	6206.0	6261.8	6300.4	6296.1	6251.0	6133.0	5976.3	5776.6	5240.0
20°	6139.4	6206.0	6341.2	6452.8	6491.5	6478.6	6418.5	6281.1	6102.9	5903.3	5334.4
22.5°	6334.8	6394.9	6564.4	6695.4	6723.3	6689.0	6603.1	6416.3	6255.3	6040.7	5448.2
25°	6626.7	6697.5	6854.2	6953.0	6953.0	6933.7	6813.5	6594.5	6427.1	6231.7	5596.3
27.5°	6980.9	7041.0	7195.6	7283.6	7232.1	7176.2	7056.0	6792.0	6631.0	6472.1	5774.5
30°	7339.4	7378.0	7541.2	7579.8	7526.1	7455.3	7326.5	7062.5	6920.8	6798.4	6032.1
32.5°	7678.6	7762.3	7897.5	7888.9	7815.9	7781.6	7663.5	7382.3	7302.9	7290.0	6392.7
35°	8017.7	8082.1	8202.3	8232.4	8168.0	8161.6	8075.7	7867.5	7869.6	7953.3	6955.1
37.5°	8309.7	8367.6	8509.3	8575.9	8588.7	8620.9	8586.6	8449.2	8644.5	8874.2	7700.0
40°	8554.4	8636.0	8816.3	8932.2	9065.3	9183.4	9189.8	9219.9	9612.7	10007.7	8672.5
42.5°	8745.4	8859.2	9121.1	9335.8	9640.6	9790.9	9911.1	10076.4	10737.5	11327.9	9818.8
45°	8994.5	9125.4	9451.7	9788.7	10265.3	10512.1	10679.6	11121.8	12059.9	12864.9	10995.1
47.5°	9406.6	9475.3	9808.0	10299.6	10926.4	11278.5	11604.8	12274.5	13478.8	14200.1	11974.0
50°	9936.8	9981.9	10233.1	10915.7	11727.1	12190.8	12785.4	13573.3	14951.4	15307.7	12527.8
52.5°	10522.9	10537.9	10726.8	11594.0	12624.4	13208.3	13873.8	14846.2	16151.4	16097.7	12894.9
55°	11203.4	11181.9	11342.9	12330.3	13687.0	14354.6	15129.6	16149.2	17192.5	16658.0	13105.3
57.5°	11982.6	11924.6	12081.3	13307.1	15048.0	15846.6	16634.4	17274.1	17999.6	17128.1	13206.2
60°	12798.3	12682.4	12869.2	14404.0	16651.5	17409.3	18064.0	18235.8	18849.7	17501.6	13032.3
62.5°	13448.7	13450.9	13798.7	15571.8	18300.2	18963.5	19311.2	19465.8	19581.7	17420.0	12117.8
65°	14464.1	14498.5	15054.4	17192.5	20208.5	20783.8	21022.1	20519.8	19613.9	16406.8	10744.0
67.5°	15511.7	15621.2	16638.7	19425.0	22413.1	22876.8	22569.9	20723.7	18738.1	14094.9	8146.5
70°	15853.0	16033.3	17709.8	20962.0	23735.5	23975.9	22936.9	19772.8	15664.1	9423.8	4100.1
72.5°	14526.4	14818.3	17093.8	20401.7	22891.9	22683.6	20522.0	16582.9	9958.3	3578.5	1251.5
75°	10243.8	10372.6	14206.5	16924.2	18411.8	17821.5	15610.4	10690.3	4095.8	1004.6	429.3
77.5°	5289.3	5227.1	8449.2	11229.1	13131.0	12519.2	10222.3	5534.1	1552.0	418.6	266.2
80°	2734.8	2779.9	3655.7	5884.0	8015.6	7375.9	5450.3	2565.2	826.5	231.8	203.9
82.5°	1532.7	1438.3	2101.6	2569.5	3748.0	2938.8	2090.8	1816.1	360.6	139.5	193.2
85°	279.1	291.9	1152.7	1388.9	1300.9	826.5	674.0	1212.9	105.2	77.3	135.2
87.5°	4.3	4.3	223.3	399.3	253.3	115.9	212.5	173.9	21.5	30.1	23.6
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°	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5	4984.5
2.5°	4960.9	4879.3	4726.9	4576.7	4385.6	4228.9	4123.7	4014.2	3902.6	3911.2	3937.0
5°	4875.0	4733.4	4432.8	4115.1	3810.3	3535.5	3265.1	3022.5	2923.7	2833.6	2837.9
7.5°	4789.2	4589.5	4149.5	3651.4	3189.9	2721.9	2382.8	2103.7	1955.6	1844.0	1811.8
10°	4750.5	4486.5	3889.7	3204.9	2550.2	2039.3	1603.5	1376.0	1200.0	1144.2	1159.2
12.5°	4767.7	4435.0	3655.7	2801.4	2022.1	1421.1	1116.3	1000.3	961.7	955.3	951.0
15°	4799.9	4398.5	3426.0	2354.9	1485.5	1056.2	938.1	916.6	912.3	908.0	910.2
17.5°	4842.8	4366.3	3181.3	1936.3	1139.9	923.1	888.7	878.0	875.8	875.8	875.8
20°	4885.8	4329.8	2908.7	1562.8	951.0	871.5	850.1	843.6	841.5	841.5	839.3
22.5°	4935.1	4297.6	2631.8	1227.9	875.8	835.0	815.7	811.4	809.3	807.1	807.1
25°	5006.0	4256.8	2337.7	1004.6	828.6	800.7	781.4	777.1	774.9	766.4	768.5
27.5°	5100.4	4226.7	2035.0	867.2	785.7	757.8	744.9	738.4	734.2	727.7	729.9
30°	5229.2	4201.0	1713.0	792.1	736.3	712.7	699.8	695.5	691.2	684.8	684.8
32.5°	5452.5	4211.7	1373.9	732.0	691.2	663.3	650.4	646.1	641.8	635.4	635.4
35°	5787.4	4274.0	1099.1	680.5	637.6	609.6	596.8	596.8	590.3	581.7	579.6
37.5°	6334.8	4432.8	882.3	631.1	586.0	560.3	545.2	541.0	534.5	521.6	519.5
40°	6980.9	4679.7	742.7	581.7	538.8	513.0	500.2	487.3	470.1	457.2	455.1
42.5°	7792.3	4933.0	644.0	532.4	493.7	470.1	455.1	433.6	407.9	390.7	388.5
45°	8638.1	5164.8	577.4	487.3	450.8	431.5	414.3	380.0	347.8	326.3	324.1
47.5°	9269.2	5207.8	523.8	444.4	414.3	395.0	371.4	328.4	285.5	266.2	259.7
50°	9567.6	4999.5	468.0	401.4	377.8	356.3	326.3	276.9	229.7	206.1	201.8
52.5°	9672.8	4638.9	422.9	362.8	341.3	315.6	279.1	223.3	180.3	156.7	154.6
55°	9629.9	4183.8	382.1	326.3	298.4	268.3	231.8	178.2	133.1	113.8	109.5
57.5°	9404.5	3604.2	341.3	289.8	255.5	225.4	184.6	133.1	90.2	73.0	70.8
60°	8797.0	2814.3	300.5	249.0	216.8	184.6	146.0	94.5	55.8	40.8	40.8
62.5°	7770.9	2088.7	261.9	208.2	182.5	148.1	103.0	60.1	30.1	21.5	19.3
65°	6493.6	1541.3	219.0	176.0	152.4	115.9	73.0	36.5	15.0	6.4	4.3
67.5°	4531.6	951.0	182.5	143.8	124.5	83.7	45.1	15.0	6.4	0.0	0.0
70°	2058.6	452.9	139.5	109.5	94.5	60.1	23.6	8.6	4.3	0.0	0.0
72.5°	639.7	238.3	98.7	79.4	64.4	38.6	12.9	6.4	4.3	0.0	0.0
75°	296.2	152.4	62.3	42.9	36.5	19.3	8.6	4.3	2.1	0.0	0.0
77.5°	221.1	118.1	36.5	23.6	19.3	12.9	6.4	4.3	2.1	0.0	0.0
80°	193.2	60.1	21.5	15.0	10.7	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	173.9	30.1	12.9	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0
85°	94.5	17.2	8.6	6.4	4.3	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.2	8.6	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)