

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: P458922

Luminaire Tested: **GALN-SA4C-735-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21227 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

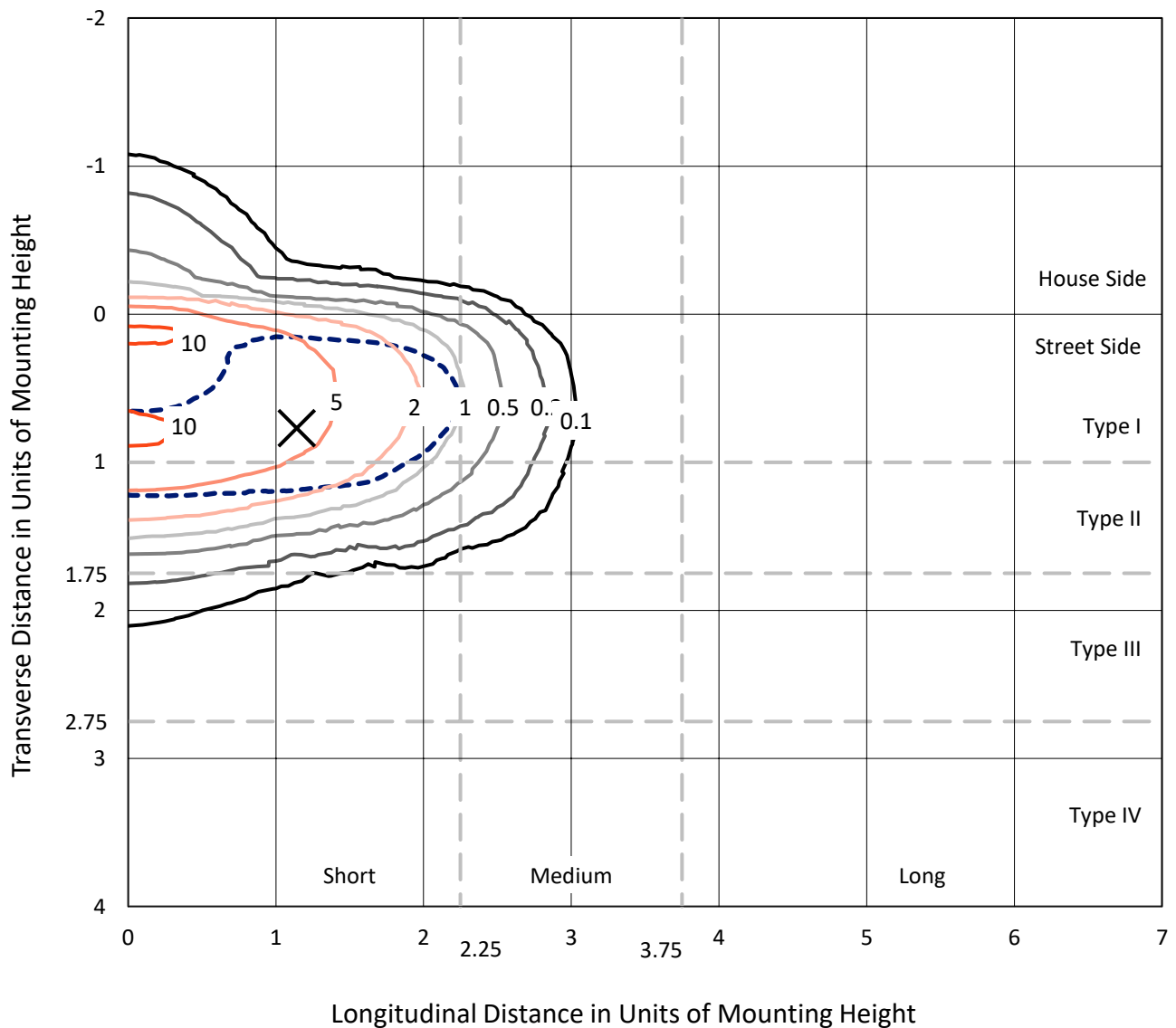
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

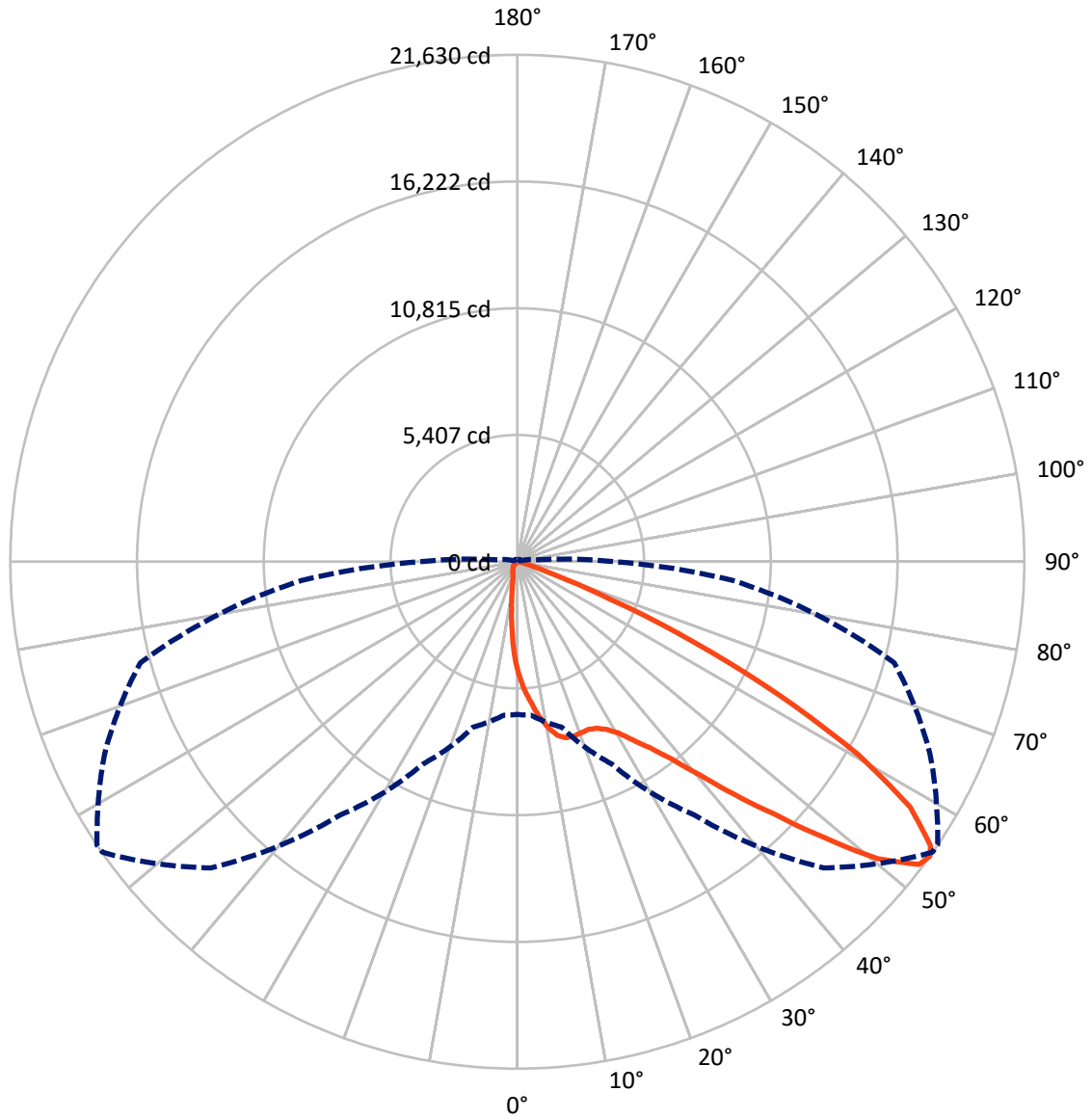
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1003.8	0.0	1003.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	20223.2	0.0	20223.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	21227.0	0.0	21227.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.7	2.0
10°-20°	1126.6	5.3
20°-30°	1951.1	9.2
30°-40°	3368.0	15.9
40°-50°	5732.4	27.0
50°-60°	5672.9	26.7
60°-70°	2589.2	12.2
70°-80°	332.5	1.6
80°-90°	37.5	0.2
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°	21227.0	100.0
0°-180°	21227.0	100.0

**Coefficient of Utilization**



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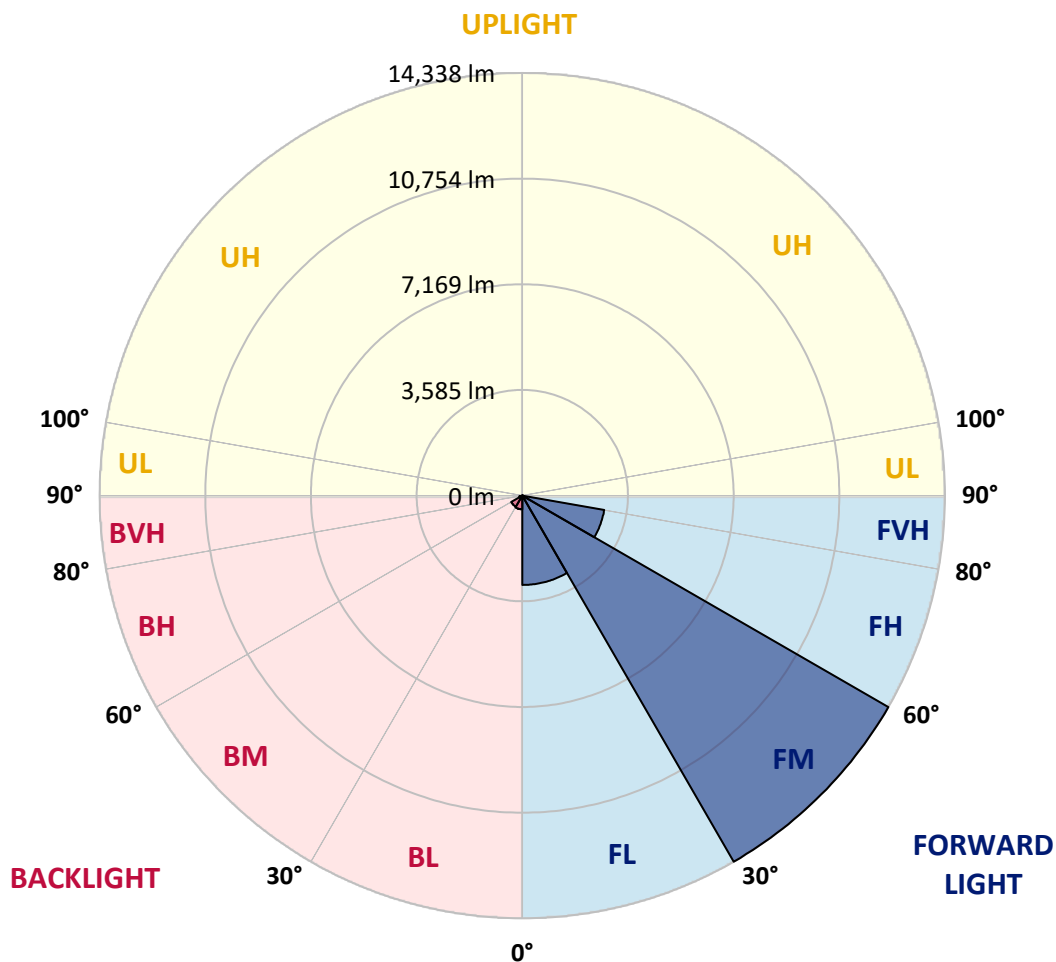
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3030.2	14.3			
FM	(30°-60°)	14338.3	67.5			
FH	(60°-80°)	2821.3	13.3			G2/5000
FVH	(80°-90°)	33.5	0.2			G1/100
BL	(0°-30°)	464.2	2.2	B1/500		
BM	(30°-60°)	435.0	2.0	B1/1000		
BH	(60°-80°)	100.5	0.5	B0/110		G0/110
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
2.5°	5993.5	5952.0	5894.7	5850.3	5745.7	5595.4	5436.4	5436.4	5283.2	5069.8	4852.1
5°	6912.9	6885.7	6829.9	6715.3	6597.9	6387.3	6068.0	6012.1	5738.6	5351.9	4945.2
7.5°	7286.7	7299.6	7302.5	7272.4	7216.5	7008.9	6692.4	6653.7	6216.9	5698.5	5066.9
10°	6928.7	6991.7	7053.3	7177.9	7354.0	7404.2	7225.1	7185.0	6755.4	6049.3	5198.7
12.5°	6395.9	6430.3	6464.7	6660.9	7014.6	7419.9	7607.5	7606.1	7242.3	6398.8	5366.2
15°	6148.2	6178.2	6181.1	6268.5	6574.9	7165.0	7770.8	7792.3	7717.8	6829.9	5546.7
17.5°	6199.7	6224.1	6204.0	6225.5	6385.9	6884.3	7752.2	7823.8	8103.0	7243.8	5709.9
20°	6536.3	6583.5	6506.2	6446.1	6494.7	6809.8	7689.1	7789.4	8375.1	7647.6	5858.9
22.5°	7140.6	7166.4	7069.0	6904.3	6818.4	6965.9	7672.0	7770.8	8607.1	7978.4	5944.8
25°	7812.3	7803.7	7696.3	7511.6	7331.1	7281.0	7785.1	7873.9	8799.1	8276.3	5970.6
27.5°	8484.0	8509.8	8329.3	8100.2	7883.9	7753.6	8038.6	8104.5	9015.3	8615.7	6002.1
30°	9264.5	9223.0	9045.4	8783.3	8535.5	8353.7	8446.7	8465.4	9313.2	9065.4	6085.2
32.5°	10279.9	10165.3	9966.2	9508.0	9330.4	9022.5	9045.4	9068.3	9675.5	9510.8	6185.4
35°	11657.6	11651.9	11262.3	10645.1	10212.6	9830.2	9729.9	9748.6	10224.0	10172.5	6407.4
37.5°	13316.0	13338.9	12895.0	12273.4	11477.2	10869.9	10663.7	10666.6	11057.5	11086.2	6745.4
40°	14666.5	14726.7	14461.7	14042.1	13255.9	12306.4	11959.8	11928.3	12229.0	12193.2	7228.0
42.5°	15248.0	15303.8	15402.6	15548.7	15116.2	14332.8	13515.1	13558.0	13649.7	13399.1	7769.3
45°	14963.0	15051.8	15439.9	16342.1	16748.8	16485.3	15510.1	15359.7	14971.6	14709.5	8313.6
47.5°	13775.7	13992.0	14640.7	16143.1	17566.6	18457.4	17761.4	17562.3	16294.9	15666.2	8660.1
50°	11823.7	11836.6	12740.3	14660.8	17142.7	19701.9	20060.0	19911.0	17527.9	16203.2	8834.9
52.5°	8571.3	8853.5	9681.3	11905.4	15306.7	19512.9	21525.0	21463.4	18799.7	16478.2	9086.9
54°	6516.2	6570.6	7306.8	9513.7	13197.1	18474.6	21615.3	21629.6	19431.2	16644.3	9235.9
55°	5341.9	5211.5	5984.9	8104.5	11757.8	17556.6	21320.2	21389.0	19714.8	16730.2	9346.1
57.5°	2532.0	2533.5	3124.9	4274.9	7364.1	13632.5	19517.2	19760.6	19746.3	16877.7	9685.5
60°	1281.8	1290.4	1420.7	1973.5	3637.6	9062.6	16137.3	16717.3	18226.8	16899.2	9797.3
62.5°	896.5	886.5	865.0	949.5	1531.0	4605.8	12014.2	12518.3	15485.7	16081.5	9442.1
65°	767.6	746.1	686.0	673.1	773.4	1834.6	7482.9	8305.0	11823.7	13924.7	8431.0
67.5°	655.9	647.3	592.9	560.0	547.1	799.1	3861.0	4293.5	8081.6	10009.2	6385.9
70°	557.1	552.8	519.9	478.3	442.5	478.3	1432.1	1774.4	4504.1	5389.1	3013.2
72.5°	452.6	456.9	462.6	409.6	372.4	339.4	611.5	711.8	1884.7	1926.2	1054.1
75°	396.7	392.4	392.4	356.6	310.8	252.1	336.6	362.3	577.2	535.6	244.9
77.5°	279.3	269.2	315.1	293.6	259.2	179.0	191.9	203.4	239.2	204.8	114.6
80°	193.3	193.3	201.9	263.5	233.4	130.3	117.4	126.0	141.8	121.7	65.9
82.5°	108.8	111.7	131.8	140.3	136.1	87.4	77.3	78.8	94.5	83.1	41.5
85°	12.9	21.5	75.9	74.5	55.9	38.7	43.0	44.4	58.7	51.6	24.3
87.5°	1.4	2.9	15.8	20.0	14.3	15.8	15.8	15.8	20.0	22.9	17.2
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°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
2.5°	4734.6	4625.8	4366.6	4065.8	3873.9	3561.7	3298.2	3107.7	3060.5	2968.8	2996.0
5°	4728.9	4502.6	3974.2	3415.6	2819.9	2375.9	2045.1	1784.4	1669.9	1594.0	1541.0
7.5°	4731.8	4378.0	3530.2	2640.9	1929.1	1493.7	1187.2	1028.3	922.3	877.9	883.6
10°	4740.4	4237.7	3014.6	1956.3	1301.8	965.3	777.7	701.7	665.9	660.2	658.8
12.5°	4760.4	4084.5	2522.0	1452.2	910.8	701.7	630.1	604.4	592.9	592.9	588.6
15°	4781.9	3915.5	2112.4	1079.8	701.7	602.9	570.0	557.1	549.9	549.9	548.5
17.5°	4781.9	3720.7	1730.0	837.8	604.4	554.2	528.5	511.3	505.5	505.5	504.1
20°	4751.8	3494.4	1390.6	674.5	548.5	508.4	482.6	464.0	456.9	454.0	452.6
22.5°	4647.3	3192.2	1107.0	580.0	502.7	468.3	435.4	413.9	408.2	405.3	406.7
25°	4461.1	2851.4	876.5	509.8	461.1	419.6	391.0	375.2	369.5	369.5	370.9
27.5°	4269.2	2494.8	694.6	456.9	411.0	373.8	350.9	340.8	339.4	343.7	345.1
30°	4091.6	2136.7	562.8	413.9	366.6	335.1	319.4	316.5	316.5	317.9	319.4
32.5°	3894.0	1823.1	471.2	376.7	330.8	303.6	295.0	295.0	297.9	297.9	300.7
35°	3769.4	1553.9	413.9	340.8	303.6	280.7	275.0	276.4	280.7	286.4	289.3
37.5°	3702.1	1339.0	376.7	312.2	277.8	262.1	256.4	259.2	269.2	279.3	280.7
40°	3707.8	1177.2	346.6	287.9	257.8	240.6	236.3	244.9	254.9	264.9	266.4
42.5°	3770.8	1056.9	317.9	259.2	240.6	216.3	214.8	223.4	227.7	237.7	239.2
45°	3845.3	969.6	287.9	229.1	209.1	187.6	189.0	196.2	201.9	217.7	220.5
47.5°	3868.2	909.4	253.5	194.8	171.9	164.7	166.1	170.4	181.9	196.2	197.6
50°	3894.0	872.2	220.5	164.7	146.1	144.6	146.1	148.9	156.1	161.8	160.4
52.5°	4004.3	870.7	193.3	143.2	124.6	127.5	128.9	127.5	121.7	113.1	110.3
54°	4107.4	875.0	180.4	133.2	114.6	118.9	117.4	110.3	96.0	87.4	83.1
55°	4190.4	879.3	173.3	126.0	108.8	110.3	111.7	97.4	78.8	70.2	67.3
57.5°	4353.7	869.3	156.1	110.3	96.0	90.2	88.8	64.4	43.0	37.2	34.4
60°	4272.1	784.8	141.8	94.5	81.6	73.0	60.1	35.8	21.5	15.8	15.8
62.5°	3951.3	665.9	126.0	77.3	67.3	55.9	31.5	20.0	10.0	5.7	4.3
65°	3534.5	560.0	113.1	61.6	53.0	35.8	17.2	12.9	4.3	0.0	0.0
67.5°	2628.0	415.3	96.0	48.7	40.1	22.9	11.5	7.2	1.4	0.0	0.0
70°	1217.3	253.5	81.6	37.2	28.6	17.2	8.6	4.3	0.0	0.0	0.0
72.5°	349.4	159.0	67.3	27.2	20.0	14.3	7.2	2.9	1.4	0.0	0.0
75°	121.7	127.5	50.1	20.0	15.8	10.0	5.7	2.9	1.4	0.0	0.0
77.5°	73.0	103.1	31.5	17.2	12.9	8.6	5.7	2.9	1.4	1.4	0.0
80°	41.5	68.7	20.0	14.3	11.5	7.2	4.3	2.9	1.4	1.4	0.0
82.5°	22.9	32.9	15.8	12.9	10.0	7.2	4.3	2.9	1.4	1.4	1.4
85°	18.6	17.2	12.9	11.5	8.6	5.7	4.3	1.4	0.0	0.0	0.0
87.5°	14.3	11.5	11.5	11.5	8.6	5.7	4.3	1.4	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)