

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: P646879

Luminaire Tested: **GALN-SA4C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646879
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-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 17841.4 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

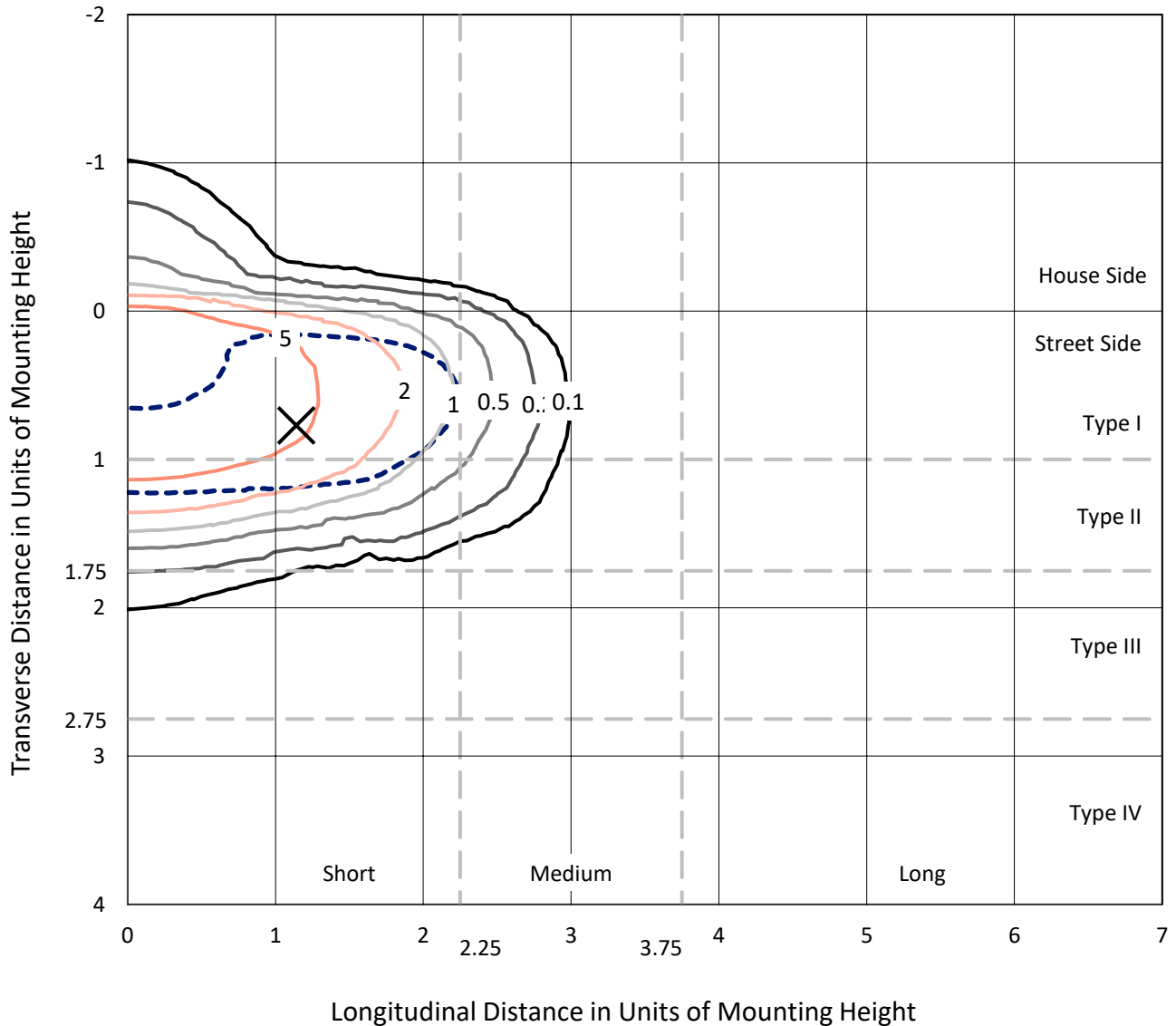
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

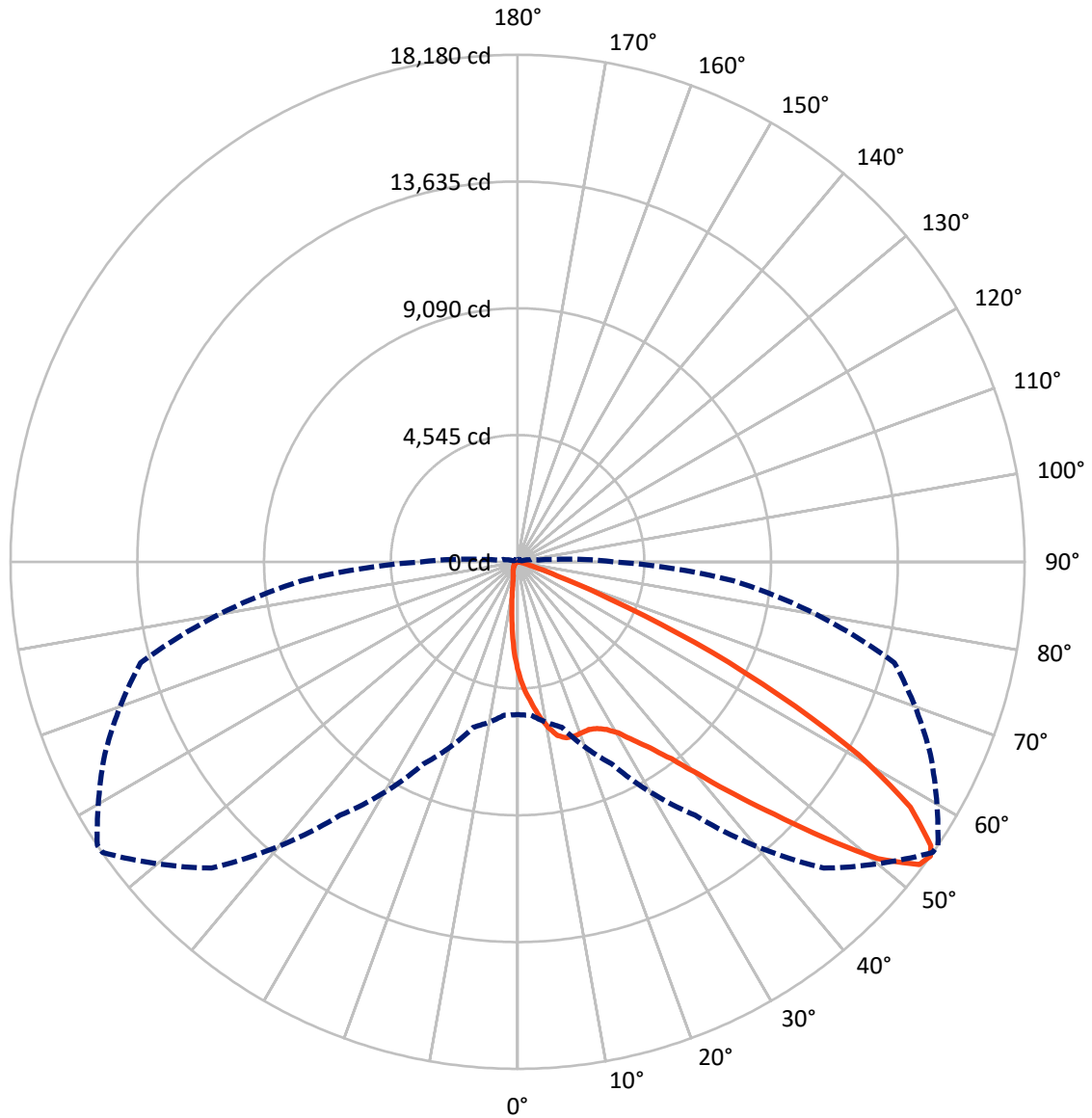
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type 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
House Side	Lumens	843.7	0.0	843.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16997.8	0.0	16997.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	17841.4	0.0	17841.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.3	2.0
10°-20°	946.9	5.3
20°-30°	1639.9	9.2
30°-40°	2830.8	15.9
40°-50°	4818.1	27.0
50°-60°	4768.1	26.7
60°-70°	2176.3	12.2
70°-80°	279.5	1.6
80°-90°	31.5	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°	17841.4	100.0
0°-180°	17841.4	100.0

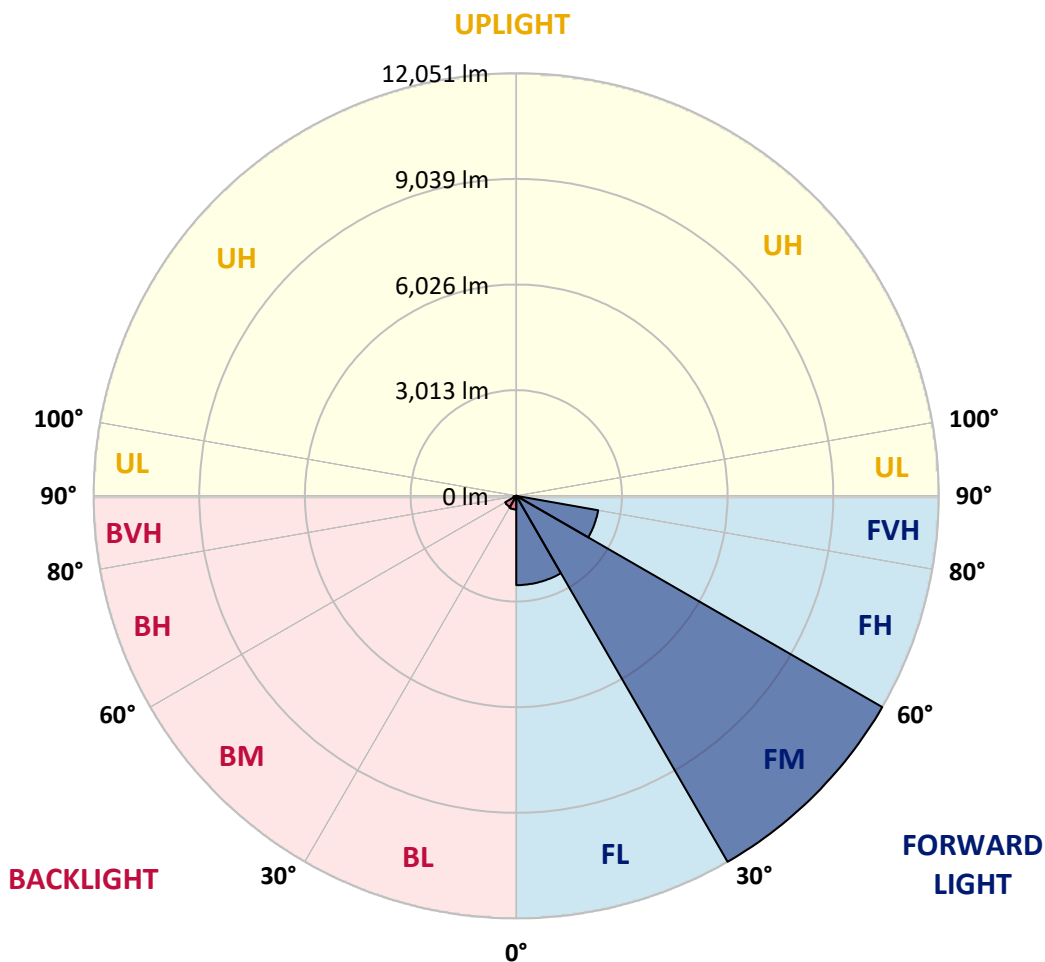


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2546.9	14.3			
FM (30°-60°)	12051.4	67.5			
FH (60°-80°)	2371.3	13.3			G2/5000
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	390.2	2.2	B1/500		
BM (30°-60°)	365.6	2.0	B1/1000		
BH (60°-80°)	84.5	0.5	B0/110		G0/110
BVH (80°-90°)	3.4	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°	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9
2.5°	5037.6	5002.7	4954.5	4917.2	4829.3	4702.9	4569.4	4569.4	4440.5	4261.2	4078.2
5°	5810.3	5787.5	5740.6	5644.3	5545.5	5368.6	5100.1	5053.2	4823.3	4498.3	4156.5
7.5°	6124.5	6135.4	6137.8	6112.5	6065.6	5891.0	5625.0	5592.5	5225.4	4789.6	4258.7
10°	5823.6	5876.6	5928.3	6033.0	6181.1	6223.2	6072.8	6039.0	5677.9	5084.5	4369.5
12.5°	5375.8	5404.7	5433.6	5598.5	5895.8	6236.5	6394.1	6393.0	6087.2	5378.2	4510.3
15°	5167.6	5192.9	5195.3	5268.7	5526.3	6022.2	6531.4	6549.5	6486.8	5740.6	4662.0
17.5°	5210.9	5231.4	5214.5	5232.6	5367.4	5786.3	6515.7	6575.9	6810.7	6088.5	4799.2
20°	5493.8	5533.5	5468.5	5418.0	5458.8	5723.7	6462.8	6547.1	7039.3	6427.9	4924.4
22.5°	6001.8	6023.4	5941.6	5803.1	5730.9	5854.9	6448.3	6531.4	7234.4	6705.9	4996.6
25°	6566.3	6559.1	6468.8	6313.5	6161.8	6119.7	6543.5	6618.1	7395.7	6956.3	5018.3
27.5°	7130.9	7152.5	7000.9	6808.3	6626.5	6516.9	6756.5	6811.9	7577.4	7241.6	5044.8
30°	7786.9	7751.9	7602.7	7382.4	7174.2	7021.3	7099.5	7115.2	7827.8	7619.5	5114.6
32.5°	8640.3	8544.0	8376.7	7991.5	7842.2	7583.4	7602.7	7622.0	8132.3	7993.9	5198.9
35°	9798.3	9793.5	9466.1	8947.3	8583.7	8262.4	8178.1	8193.7	8593.3	8550.0	5385.5
37.5°	11192.2	11211.5	10838.3	10315.9	9646.6	9136.3	8962.9	8965.4	9293.9	9318.0	5669.5
40°	12327.3	12377.9	12155.2	11802.5	11141.6	10343.6	10052.3	10025.8	10278.6	10248.5	6075.2
42.5°	12816.0	12863.0	12946.0	13068.8	12705.3	12046.8	11359.5	11395.6	11472.7	11262.0	6530.2
45°	12576.5	12651.1	12977.3	13735.7	14077.6	13856.0	13036.3	12909.9	12583.7	12363.4	6987.6
47.5°	11578.6	11760.3	12305.6	13568.4	14764.9	15513.6	14928.5	14761.3	13695.9	13167.5	7278.9
50°	9937.9	9948.7	10708.3	12322.5	14408.5	16559.6	16860.5	16735.4	14732.4	13618.9	7425.7
52.5°	7204.3	7441.4	8137.2	10006.5	12865.4	16400.7	18091.9	18040.2	15801.3	13850.0	7637.6
54°	5476.9	5522.7	6141.4	7996.3	11092.3	15528.0	18167.8	18179.8	16332.1	13989.6	7762.8
55°	4489.9	4380.3	5030.4	6811.9	9882.6	14756.4	17919.8	17977.6	16570.4	14061.9	7855.4
57.5°	2128.2	2129.4	2626.5	3593.1	6189.5	11458.2	16404.3	16608.9	16596.9	14185.8	8140.8
60°	1077.3	1084.5	1194.1	1658.7	3057.5	7617.2	13563.5	14051.0	15319.8	14203.9	8234.7
62.5°	753.6	745.1	727.0	798.0	1286.8	3871.2	10098.0	10521.7	13015.8	13516.6	7936.1
65°	645.2	627.1	576.6	565.7	650.0	1542.0	6289.4	6980.4	9937.9	11703.8	7086.3
67.5°	551.3	544.1	498.4	470.7	459.9	671.7	3245.2	3608.8	6792.6	8412.8	5367.4
70°	468.2	464.6	436.9	402.1	371.9	402.1	1203.7	1491.4	3785.7	4529.6	2532.6
72.5°	380.4	384.0	388.8	344.3	313.0	285.2	514.0	598.2	1584.1	1619.0	886.0
75°	333.4	329.8	329.8	299.7	261.2	211.9	282.9	304.5	485.1	450.2	205.9
77.5°	234.7	226.3	264.8	246.8	217.9	150.5	161.3	170.9	201.0	172.1	96.3
80°	162.5	162.5	169.8	221.5	196.2	109.5	98.7	105.9	119.2	102.3	55.4
82.5°	91.5	93.9	110.7	118.0	114.3	73.4	65.0	66.2	79.5	69.8	34.9
85°	10.8	18.1	63.8	62.6	47.0	32.5	36.1	37.3	49.3	43.3	20.4
87.5°	1.2	2.4	13.2	16.8	12.1	13.2	13.2	13.2	16.8	19.3	14.4
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°	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9	3963.9
2.5°	3979.5	3888.0	3670.2	3417.4	3256.1	2993.6	2772.1	2612.1	2572.4	2495.3	2518.2
5°	3974.7	3784.5	3340.4	2870.9	2370.1	1997.0	1718.9	1499.8	1403.5	1339.7	1295.2
7.5°	3977.1	3679.8	2967.2	2219.6	1621.4	1255.5	997.9	864.3	775.2	737.9	742.7
10°	3984.3	3561.8	2533.9	1644.3	1094.2	811.3	653.6	589.8	559.8	554.9	553.7
12.5°	4001.2	3433.0	2119.7	1220.5	765.5	589.8	529.6	507.9	498.4	498.4	494.7
15°	4019.2	3290.9	1775.5	907.6	589.8	506.8	479.1	468.2	462.2	462.2	461.0
17.5°	4019.2	3127.3	1454.1	704.2	507.9	465.8	444.2	429.7	424.9	424.9	423.7
20°	3993.9	2937.1	1168.8	567.0	461.0	427.3	405.7	390.0	384.0	381.6	380.4
22.5°	3906.1	2683.1	930.4	487.5	422.5	393.6	365.9	347.9	343.0	340.7	341.9
25°	3749.6	2396.6	736.6	428.5	387.6	352.7	328.6	315.4	310.5	310.5	311.8
27.5°	3588.3	2096.9	583.8	384.0	345.5	314.1	294.9	286.5	285.2	288.9	290.1
30°	3439.0	1796.0	473.1	347.9	308.2	281.6	268.4	266.0	266.0	267.2	268.4
32.5°	3272.9	1532.3	396.0	316.6	278.0	255.2	248.0	248.0	250.4	250.4	252.8
35°	3168.2	1306.0	347.9	286.5	255.2	235.9	231.1	232.3	235.9	240.8	243.1
37.5°	3111.6	1125.5	316.6	262.4	233.5	220.3	215.5	217.9	226.3	234.7	235.9
40°	3116.4	989.5	291.3	241.9	216.7	202.2	198.6	205.9	214.2	222.7	223.9
42.5°	3169.4	888.3	267.2	217.9	202.2	181.7	180.6	187.8	191.4	199.8	201.0
45°	3232.0	814.9	241.9	192.6	175.7	157.7	158.9	164.9	169.8	183.0	185.3
47.5°	3251.3	764.4	213.1	163.7	144.5	138.4	139.6	143.2	152.8	164.9	166.2
50°	3272.9	733.0	185.3	138.4	122.8	121.6	122.8	125.2	131.2	136.0	134.8
52.5°	3365.6	731.9	162.5	120.3	104.7	107.1	108.4	107.1	102.3	95.1	92.7
54°	3452.2	735.5	151.7	112.0	96.3	99.9	98.7	92.7	80.6	73.4	69.8
55°	3522.1	739.1	145.6	105.9	91.5	92.7	93.9	81.8	66.2	59.0	56.6
57.5°	3659.4	730.7	131.2	92.7	80.6	75.9	74.6	54.2	36.1	31.3	28.9
60°	3590.7	659.7	119.2	79.5	68.6	61.4	50.6	30.1	18.1	13.2	13.2
62.5°	3321.1	559.8	105.9	65.0	56.6	47.0	26.5	16.8	8.5	4.8	3.6
65°	2970.8	470.7	95.1	51.8	44.6	30.1	14.4	10.8	3.6	0.0	0.0
67.5°	2208.8	349.1	80.6	41.0	33.7	19.3	9.6	6.0	1.2	0.0	0.0
70°	1023.1	213.1	68.6	31.3	24.0	14.4	7.2	3.6	0.0	0.0	0.0
72.5°	293.7	133.6	56.6	22.9	16.8	12.1	6.0	2.4	1.2	0.0	0.0
75°	102.3	107.1	42.1	16.8	13.2	8.5	4.8	2.4	1.2	0.0	0.0
77.5°	61.4	86.7	26.5	14.4	10.8	7.2	4.8	2.4	1.2	1.2	0.0
80°	34.9	57.8	16.8	12.1	9.6	6.0	3.6	2.4	1.2	1.2	0.0
82.5°	19.3	27.7	13.2	10.8	8.5	6.0	3.6	2.4	1.2	1.2	1.2
85°	15.7	14.4	10.8	9.6	7.2	4.8	3.6	1.2	0.0	0.0	0.0
87.5°	12.1	9.6	9.6	9.6	7.2	4.8	3.6	1.2	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)