

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: P456689

Luminaire Tested: **GALN-SA8A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456689
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-SA8A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 25303 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

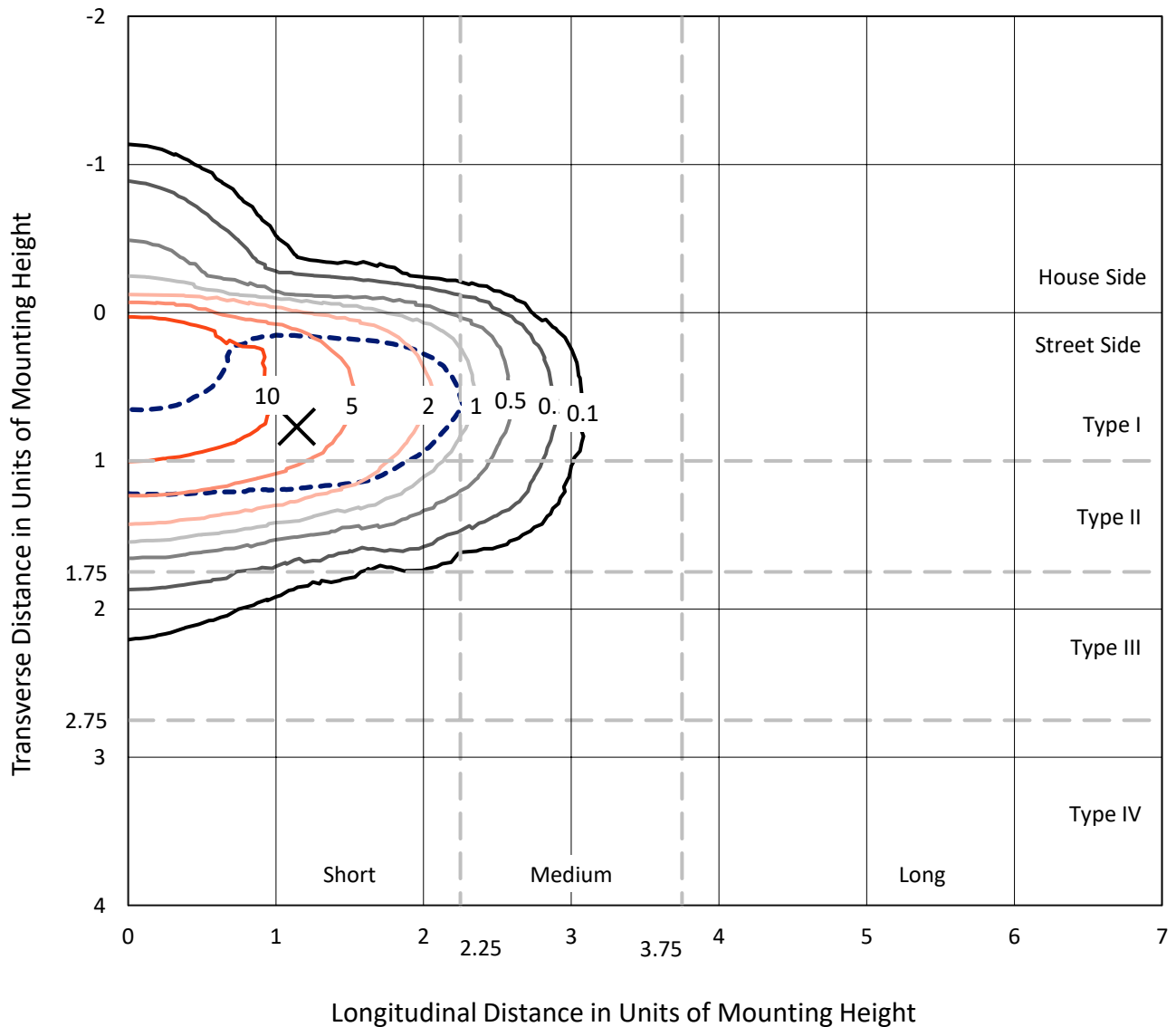
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

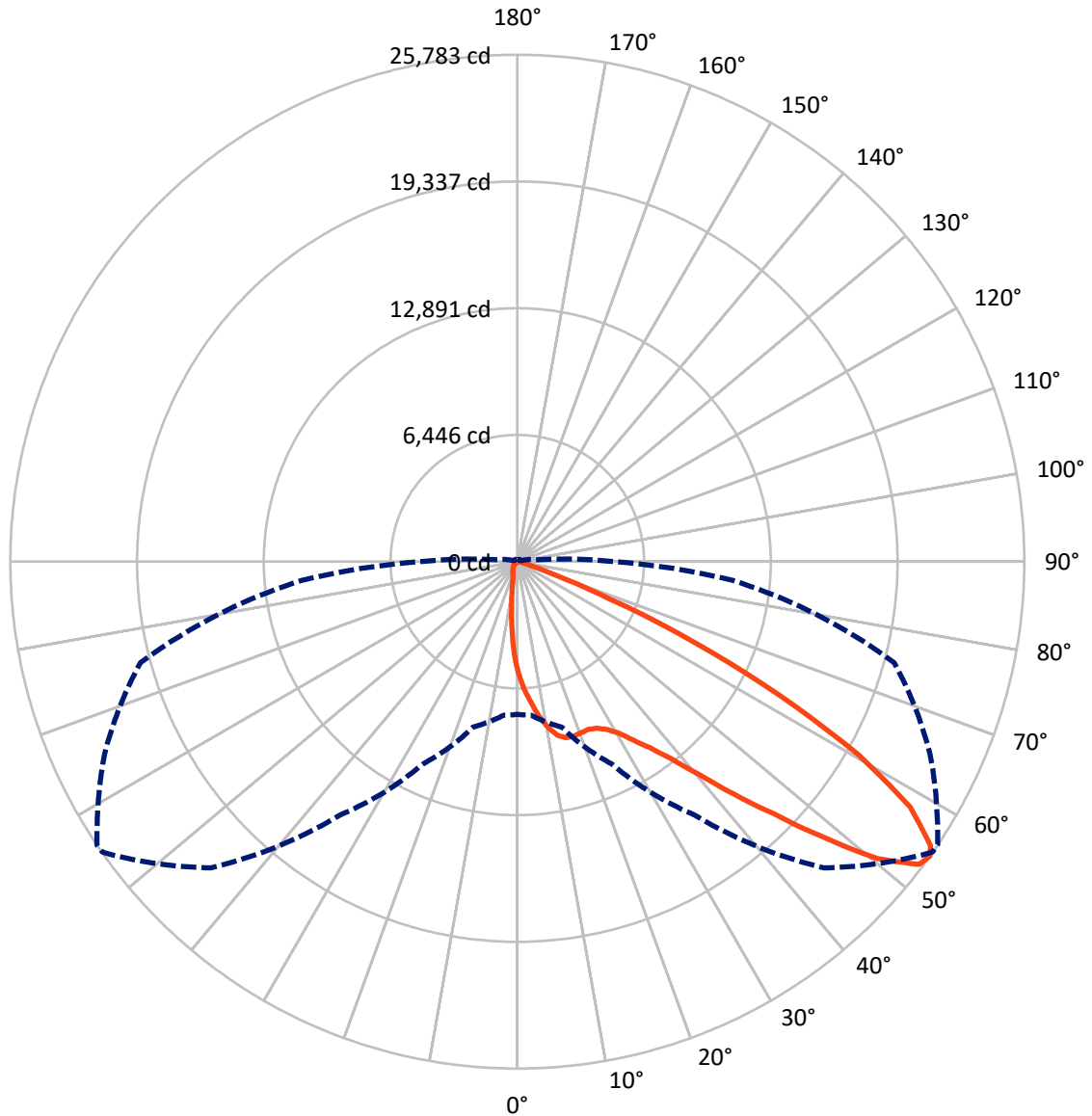
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	1196.5	0.0	1196.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24106.5	0.0	24106.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	25303.0	0.0	25303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.8	2.0
10°-20°	1342.9	5.3
20°-30°	2325.8	9.2
30°-40°	4014.7	15.9
40°-50°	6833.1	27.0
50°-60°	6762.2	26.7
60°-70°	3086.4	12.2
70°-80°	396.4	1.6
80°-90°	44.7	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°	25303.0	100.0
0°-180°	25303.0	100.0

Coefficient of Utilization



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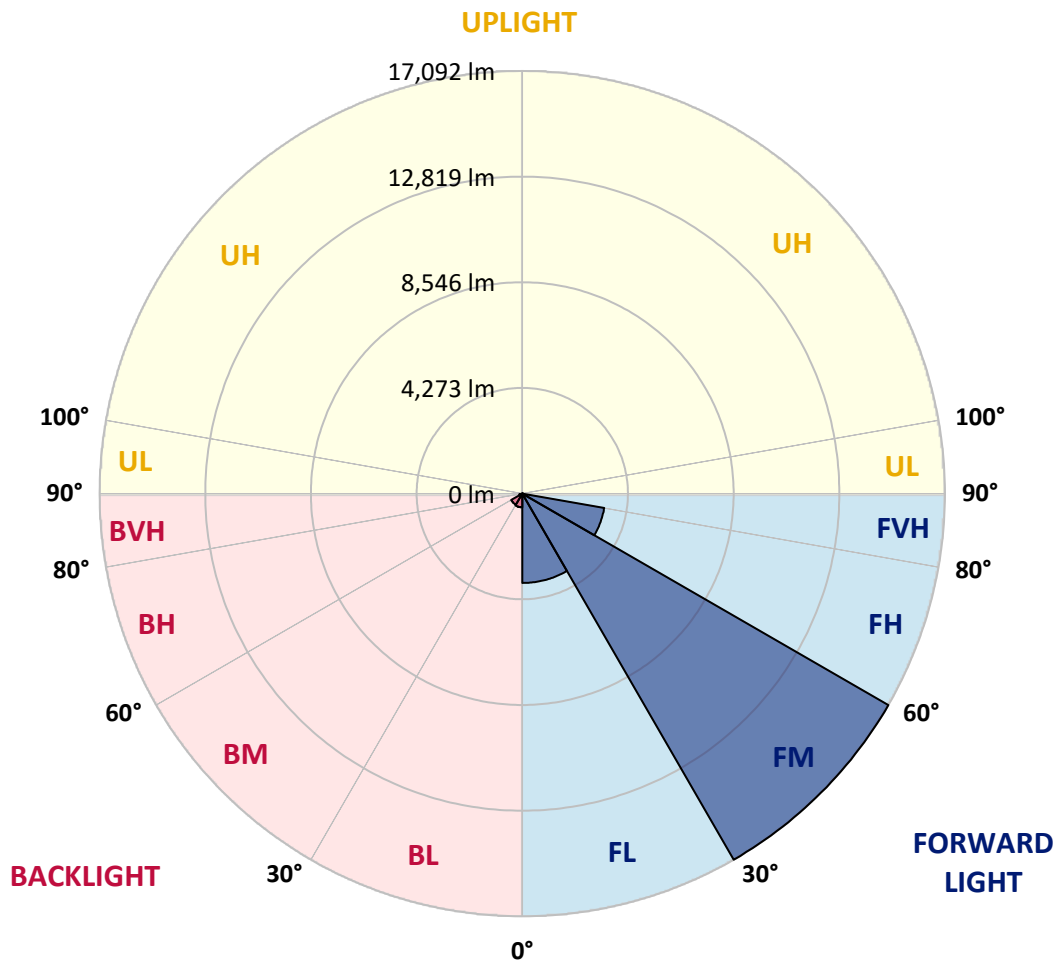
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3612.1	14.3			
FM (30°-60°)	17091.5	67.5			
FH (60°-80°)	3363.0	13.3			G2/5000
FVH (80°-90°)	39.9	0.2			G1/100
BL (0°-30°)	553.4	2.2	B2/1000		
BM (30°-60°)	518.6	2.0	B1/1000		
BH (60°-80°)	119.8	0.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6
2.5°	7144.4	7094.9	7026.6	6973.7	6849.0	6669.8	6480.3	6480.3	6297.6	6043.3	5783.8
5°	8240.3	8207.9	8141.3	8004.8	7864.8	7613.8	7233.1	7166.6	6840.5	6379.6	5894.7
7.5°	8685.9	8701.3	8704.7	8668.8	8602.3	8354.7	7977.4	7931.4	7410.7	6792.7	6039.8
10°	8259.1	8334.2	8407.6	8556.2	8766.1	8825.9	8612.5	8564.7	8052.6	7210.9	6196.9
12.5°	7624.1	7665.0	7706.0	7939.9	8361.6	8844.7	9068.3	9066.6	8633.0	7627.5	6396.6
15°	7328.7	7364.6	7368.0	7472.1	7837.5	8540.8	9262.9	9288.5	9199.8	8141.3	6611.7
17.5°	7390.2	7419.2	7395.3	7420.9	7612.1	8206.2	9240.7	9326.1	9659.0	8634.7	6806.4
20°	7791.4	7847.7	7755.5	7683.8	7741.9	8117.4	9165.6	9285.1	9983.3	9116.1	6983.9
22.5°	8511.8	8542.5	8426.4	8230.1	8127.7	8303.5	9145.1	9262.9	10259.9	9510.5	7086.3
25°	9312.4	9302.2	9174.1	8953.9	8738.8	8679.1	9280.0	9385.8	10488.6	9865.5	7117.1
27.5°	10113.1	10143.8	9928.7	9655.6	9397.8	9242.4	9582.2	9660.7	10746.4	10270.1	7154.6
30°	11043.5	10994.0	10782.3	10469.9	10174.5	9957.7	10068.7	10090.9	11101.5	10806.2	7253.6
32.5°	12253.8	12117.3	11880.0	11333.7	11122.0	10755.0	10782.3	10809.6	11533.4	11337.1	7373.1
35°	13896.1	13889.3	13424.9	12689.1	12173.6	11717.8	11598.3	11620.5	12187.2	12125.8	7637.7
37.5°	15873.0	15900.3	15371.1	14630.2	13681.0	12957.2	12711.3	12714.7	13180.8	13214.9	8040.6
40°	17482.8	17554.5	17238.7	16738.5	15801.3	14669.4	14256.3	14218.7	14577.2	14534.6	8615.9
42.5°	18175.9	18242.5	18360.2	18534.4	18018.8	17085.0	16110.2	16161.5	16270.7	15972.0	9261.2
45°	17836.2	17942.0	18404.6	19480.1	19965.0	19650.8	18488.3	18309.0	17846.4	17534.0	9909.9
47.5°	16420.9	16678.7	17452.1	19242.8	20939.7	22001.6	21171.9	20934.6	19423.8	18674.4	10323.1
50°	14094.1	14109.5	15186.7	17476.0	20434.4	23485.1	23911.9	23734.3	20893.6	19314.5	10531.3
52.5°	10217.2	10553.5	11540.2	14191.4	18245.9	23259.7	25658.3	25584.8	22409.6	19642.3	10831.8
54°	7767.5	7832.3	8709.8	11340.5	15731.3	22022.1	25765.8	25782.9	23162.4	19840.3	11009.3
55°	6367.6	6212.3	7134.1	9660.7	14015.6	20927.8	25414.1	25496.1	23500.4	19942.8	11140.8
57.5°	3018.2	3019.9	3725.0	5095.8	8778.1	16250.2	23264.9	23555.1	23538.0	20118.6	11545.4
60°	1527.9	1538.1	1693.5	2352.4	4336.1	10802.8	19236.0	19927.4	21726.7	20144.2	11678.5
62.5°	1068.7	1056.7	1031.1	1131.8	1824.9	5490.1	14321.2	14922.1	18459.3	19169.4	11255.1
65°	915.0	889.4	817.7	802.4	921.9	2186.8	8919.8	9899.7	14094.1	16598.5	10049.9
67.5°	781.9	771.6	706.8	667.5	652.1	952.6	4602.4	5118.0	9633.4	11931.2	7612.1
70°	664.1	659.0	619.7	570.2	527.5	570.2	1707.1	2115.1	5368.9	6424.0	3591.8
72.5°	539.5	544.6	551.4	488.2	443.9	404.6	728.9	848.4	2246.6	2296.1	1256.5
75°	472.9	467.8	467.8	425.1	370.4	300.5	401.2	431.9	688.0	638.5	291.9
77.5°	332.9	320.9	375.6	350.0	309.0	213.4	228.8	242.4	285.1	244.1	136.6
80°	230.5	230.5	240.7	314.1	278.3	155.3	140.0	150.2	169.0	145.1	78.5
82.5°	129.7	133.2	157.1	167.3	162.2	104.1	92.2	93.9	112.7	99.0	49.5
85°	15.4	25.6	90.5	88.8	66.6	46.1	51.2	52.9	70.0	61.5	29.0
87.5°	1.7	3.4	18.8	23.9	17.1	18.8	18.8	18.8	23.9	27.3	20.5
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°	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6	5621.6
2.5°	5643.8	5514.0	5205.1	4846.6	4617.8	4245.6	3931.5	3704.5	3648.1	3538.9	3571.3
5°	5637.0	5367.2	4737.3	4071.5	3361.4	2832.1	2437.8	2127.1	1990.5	1900.0	1836.9
7.5°	5640.4	5218.7	4208.1	3148.0	2299.5	1780.5	1415.2	1225.7	1099.4	1046.5	1053.3
10°	5650.6	5051.4	3593.5	2331.9	1551.8	1150.6	927.0	836.5	793.8	787.0	785.3
12.5°	5674.5	4868.8	3006.3	1731.0	1085.7	836.5	751.1	720.4	706.8	706.8	701.6
15°	5700.1	4667.3	2518.0	1287.2	836.5	718.7	679.4	664.1	655.5	655.5	653.8
17.5°	5700.1	4435.1	2062.2	998.7	720.4	660.7	629.9	609.4	602.6	602.6	600.9
20°	5664.3	4165.4	1657.6	804.1	653.8	606.0	575.3	553.1	544.6	541.2	539.5
22.5°	5539.7	3805.2	1319.6	691.4	599.2	558.2	519.0	493.4	486.5	483.1	484.8
25°	5317.7	3398.9	1044.8	607.7	549.7	500.2	466.0	447.3	440.4	440.4	442.1
27.5°	5089.0	2973.8	828.0	544.6	489.9	445.6	418.2	406.3	404.6	409.7	411.4
30°	4877.3	2547.0	670.9	493.4	437.0	399.5	380.7	377.3	377.3	379.0	380.7
32.5°	4641.7	2173.2	561.6	449.0	394.3	361.9	351.7	351.7	355.1	355.1	358.5
35°	4493.2	1852.2	493.4	406.3	361.9	334.6	327.8	329.5	334.6	341.4	344.8
37.5°	4412.9	1596.2	449.0	372.2	331.2	312.4	305.6	309.0	320.9	332.9	334.6
40°	4419.8	1403.3	413.1	343.1	307.3	286.8	281.7	291.9	303.9	315.8	317.5
42.5°	4494.9	1259.9	379.0	309.0	286.8	257.8	256.1	266.3	271.4	283.4	285.1
45°	4583.7	1155.7	343.1	273.1	249.2	223.6	225.3	233.9	240.7	259.5	262.9
47.5°	4611.0	1084.0	302.2	232.2	204.9	196.3	198.0	203.1	216.8	233.9	235.6
50°	4641.7	1039.6	262.9	196.3	174.1	172.4	174.1	177.5	186.1	192.9	191.2
52.5°	4773.2	1037.9	230.5	170.7	148.5	151.9	153.6	151.9	145.1	134.9	131.4
54°	4896.1	1043.1	215.1	158.8	136.6	141.7	140.0	131.4	114.4	104.1	99.0
55°	4995.1	1048.2	206.6	150.2	129.7	131.4	133.2	116.1	93.9	83.6	80.2
57.5°	5189.7	1036.2	186.1	131.4	114.4	107.5	105.8	76.8	51.2	44.4	41.0
60°	5092.4	935.5	169.0	112.7	97.3	87.1	71.7	42.7	25.6	18.8	18.8
62.5°	4710.0	793.8	150.2	92.2	80.2	66.6	37.6	23.9	11.9	6.8	5.1
65°	4213.2	667.5	134.9	73.4	63.2	42.7	20.5	15.4	5.1	0.0	0.0
67.5°	3132.6	495.1	114.4	58.0	47.8	27.3	13.7	8.5	1.7	0.0	0.0
70°	1451.1	302.2	97.3	44.4	34.1	20.5	10.2	5.1	0.0	0.0	0.0
72.5°	416.5	189.5	80.2	32.4	23.9	17.1	8.5	3.4	1.7	0.0	0.0
75°	145.1	151.9	59.7	23.9	18.8	11.9	6.8	3.4	1.7	0.0	0.0
77.5°	87.1	122.9	37.6	20.5	15.4	10.2	6.8	3.4	1.7	1.7	0.0
80°	49.5	81.9	23.9	17.1	13.7	8.5	5.1	3.4	1.7	1.7	0.0
82.5°	27.3	39.3	18.8	15.4	11.9	8.5	5.1	3.4	1.7	1.7	1.7
85°	22.2	20.5	15.4	13.7	10.2	6.8	5.1	1.7	0.0	0.0	0.0
87.5°	17.1	13.7	13.7	13.7	10.2	6.8	5.1	1.7	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)