

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: P453963

Luminaire Tested: **GALN-SA5A-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453963
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-SA5A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 18764 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

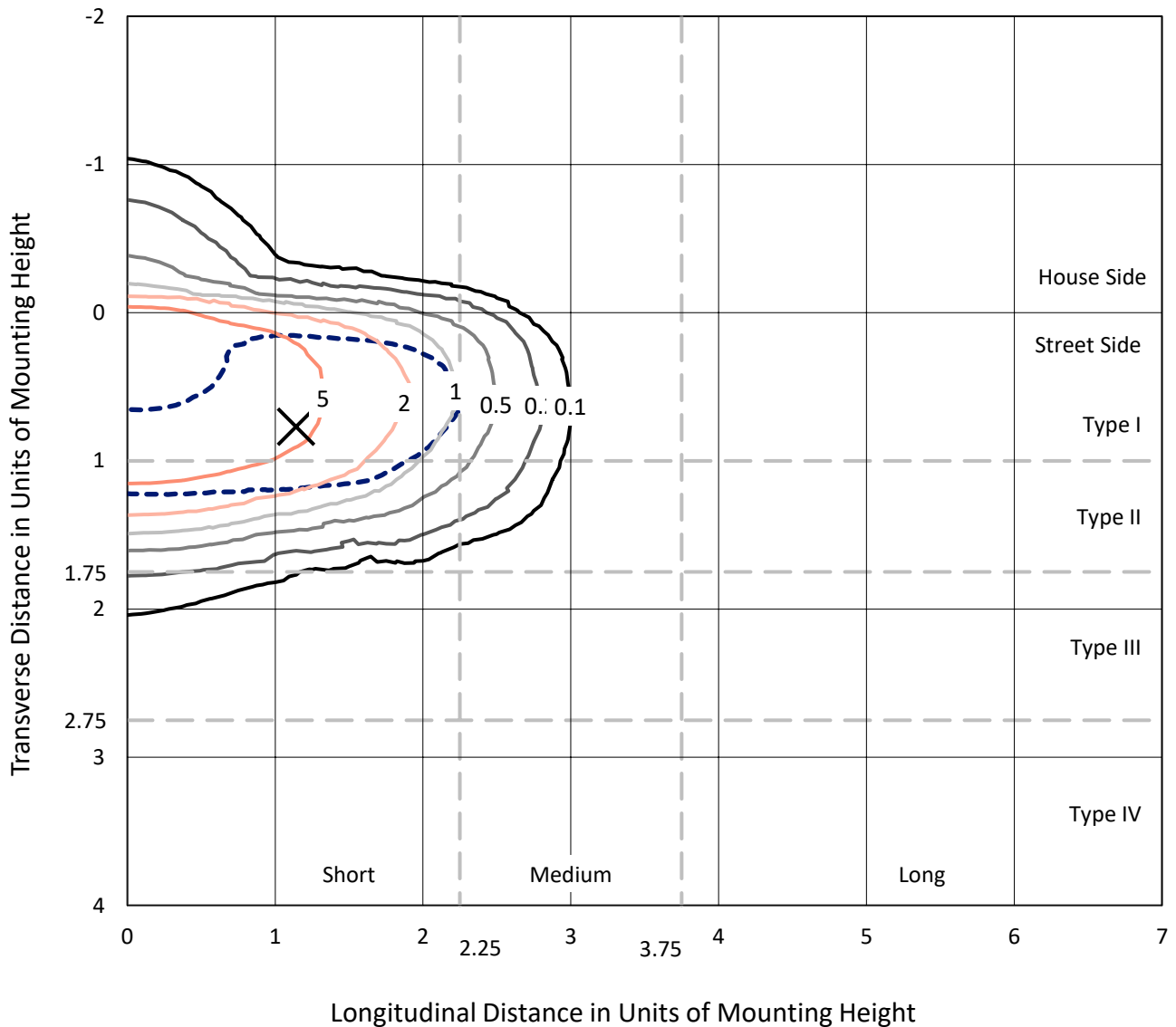
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

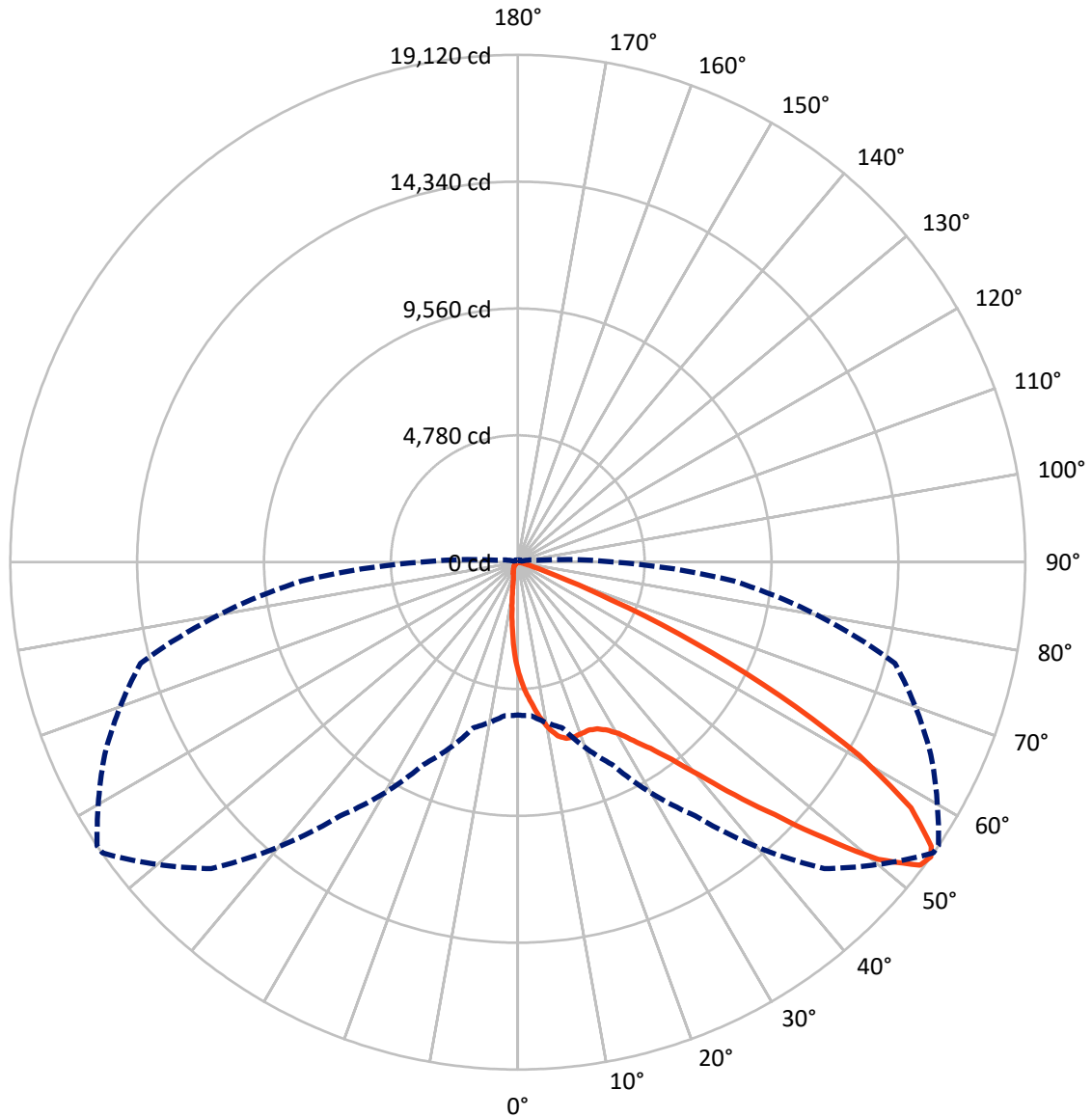
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	887.3	0.0	887.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17876.7	0.0	17876.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	18764.0	0.0	18764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.4	2.0
10°-20°	995.9	5.3
20°-30°	1724.7	9.2
30°-40°	2977.2	15.9
40°-50°	5067.3	27.0
50°-60°	5014.7	26.7
60°-70°	2288.8	12.2
70°-80°	293.9	1.6
80°-90°	33.1	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°	18764.0	100.0
0°-180°	18764.0	100.0

Coefficient of Utilization



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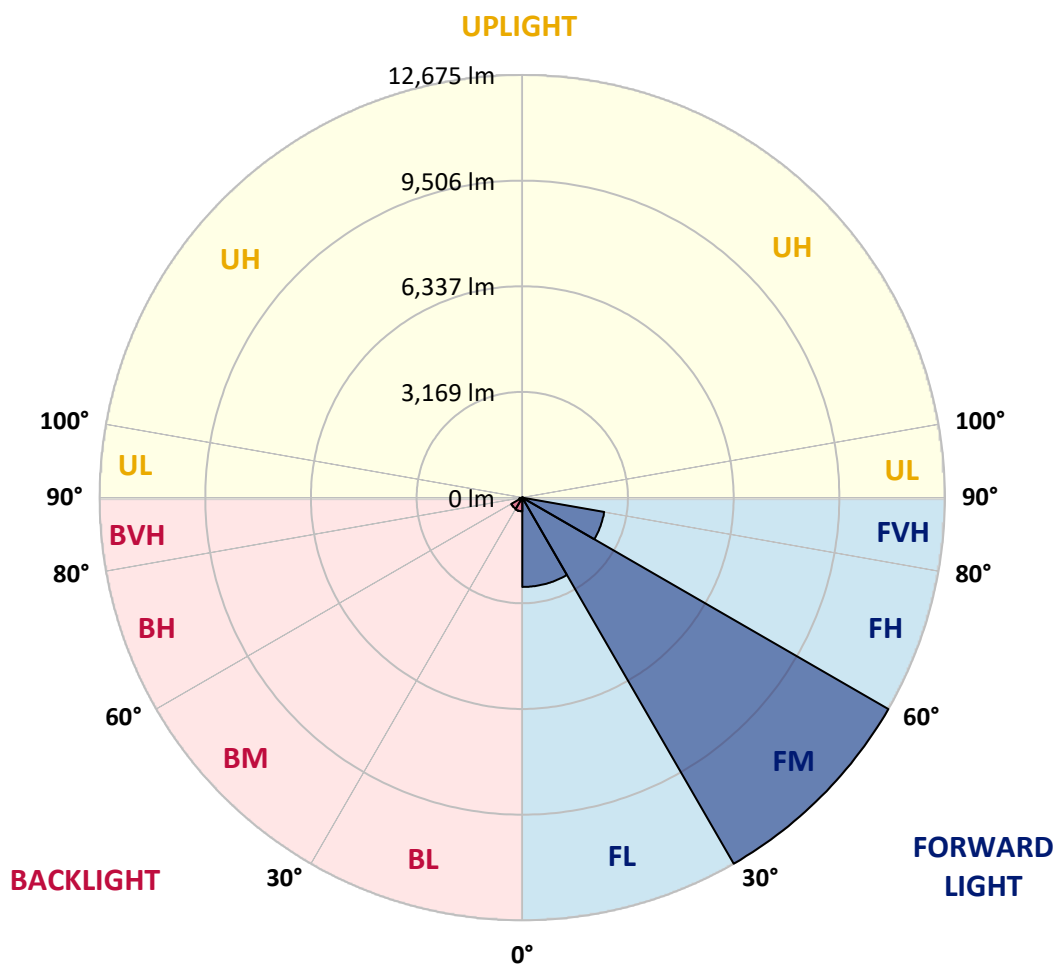
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.6	14.3			
FM (30°-60°)	12674.6	67.5			
FH (60°-80°)	2493.9	13.3			G2/5000
FVH (80°-90°)	29.6	0.2			G1/100
BL (0°-30°)	410.4	2.2	B1/500		
BM (30°-60°)	384.5	2.0	B1/1000		
BH (60°-80°)	88.9	0.5	B0/110		G0/110
BVH (80°-90°)	3.6	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°	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8
2.5°	5298.1	5261.3	5210.7	5171.5	5079.0	4946.1	4805.6	4805.6	4670.1	4481.5	4289.1
5°	6110.8	6086.8	6037.4	5936.1	5832.3	5646.2	5363.9	5314.5	5072.7	4730.9	4371.4
7.5°	6441.2	6452.6	6455.2	6428.6	6379.2	6195.6	5915.9	5881.7	5495.6	5037.3	4479.0
10°	6124.7	6180.4	6234.9	6345.0	6500.7	6545.0	6386.8	6351.3	5971.6	5347.4	4595.5
12.5°	5653.8	5684.2	5714.6	5888.0	6200.7	6559.0	6724.8	6723.5	6402.0	5656.3	4743.6
15°	5434.8	5461.4	5463.9	5541.1	5812.0	6333.6	6869.1	6888.1	6822.3	6037.4	4903.1
17.5°	5480.4	5501.9	5484.2	5503.1	5644.9	6085.5	6852.7	6916.0	7162.8	6403.2	5047.4
20°	5777.9	5819.6	5751.3	5698.1	5741.1	6019.7	6797.0	6885.6	7403.4	6760.3	5179.1
22.5°	6312.1	6334.9	6248.8	6103.2	6027.3	6157.7	6781.8	6869.1	7608.4	7052.7	5255.0
25°	6905.8	6898.2	6803.3	6640.0	6480.5	6436.2	6881.8	6960.3	7778.1	7316.0	5277.8
27.5°	7499.6	7522.4	7362.9	7160.3	6969.1	6853.9	7105.9	7164.1	7969.2	7616.0	5305.7
30°	8189.5	8152.8	7995.8	7764.2	7545.1	7384.4	7466.7	7483.1	8232.6	8013.6	5379.1
32.5°	9087.1	8985.8	8809.8	8404.7	8247.8	7975.6	7995.8	8016.1	8552.9	8407.3	5467.7
35°	10305.0	10299.9	9955.5	9409.9	9027.6	8689.6	8601.0	8617.4	9037.7	8992.1	5663.9
37.5°	11770.9	11791.2	11398.7	10849.3	10145.4	9608.7	9426.4	9428.9	9774.5	9799.8	5962.7
40°	12964.7	13017.9	12783.7	12412.8	11717.8	10878.4	10572.1	10544.2	10810.1	10778.4	6389.3
42.5°	13478.7	13528.1	13615.4	13744.6	13362.3	12669.8	11946.9	11984.9	12065.9	11844.4	6867.9
45°	13226.8	13305.3	13648.4	14445.9	14805.5	14572.5	13710.4	13577.5	13234.4	13002.7	7348.9
47.5°	12177.3	12368.5	12942.0	14270.0	15528.3	16315.8	15700.5	15524.5	14404.1	13848.4	7655.3
50°	10451.8	10463.2	11262.0	12959.7	15153.6	17415.9	17732.4	17600.7	15494.1	14323.1	7809.7
52.5°	7576.8	7826.2	8557.9	10524.0	13530.6	17248.8	19027.4	18973.0	16618.3	14566.2	8032.5
54°	5760.1	5808.2	6459.0	8409.8	11665.9	16330.9	19107.2	19119.9	17176.6	14713.0	8164.2
55°	4722.0	4606.8	5290.5	7164.1	10393.6	15519.5	18846.4	18907.2	17427.3	14789.0	8261.7
57.5°	2238.2	2239.5	2762.3	3778.9	6509.6	12050.7	17252.6	17467.8	17455.1	14919.4	8561.7
60°	1133.0	1140.6	1255.8	1744.5	3215.6	8011.0	14264.9	14777.6	16111.9	14938.4	8660.5
62.5°	792.5	783.6	764.6	839.3	1353.3	4071.3	10620.2	11065.8	13688.9	14215.5	8346.5
65°	678.6	659.6	606.4	595.0	683.6	1621.7	6614.7	7341.3	10451.8	12309.0	7452.7
67.5°	579.8	572.2	524.1	495.0	483.6	706.4	3413.0	3795.4	7143.8	8847.8	5644.9
70°	492.5	488.7	459.5	422.8	391.2	422.8	1266.0	1568.5	3981.5	4763.8	2663.6
72.5°	400.0	403.8	408.9	362.1	329.2	300.0	540.6	629.2	1666.0	1702.7	931.7
75°	350.7	346.9	346.9	315.2	274.7	222.8	297.5	320.3	510.2	473.5	216.5
77.5°	246.9	238.0	278.5	259.5	229.1	158.2	169.6	179.8	211.4	181.0	101.3
80°	170.9	170.9	178.5	232.9	206.4	115.2	103.8	111.4	125.3	107.6	58.2
82.5°	96.2	98.7	116.5	124.1	120.3	77.2	68.4	69.6	83.6	73.4	36.7
85°	11.4	19.0	67.1	65.8	49.4	34.2	38.0	39.2	51.9	45.6	21.5
87.5°	1.3	2.5	13.9	17.7	12.7	13.9	13.9	13.9	17.7	20.3	15.2
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°	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8	4168.8
2.5°	4185.3	4089.1	3859.9	3594.1	3424.4	3148.5	2915.5	2747.1	2705.4	2624.3	2648.4
5°	4180.2	3980.2	3513.1	3019.3	2492.7	2100.2	1807.8	1577.4	1476.1	1409.0	1362.2
7.5°	4182.7	3870.1	3120.6	2334.4	1705.3	1320.4	1049.5	909.0	815.3	776.0	781.1
10°	4190.3	3746.0	2664.9	1729.3	1150.8	853.3	687.4	620.3	588.7	583.6	582.3
12.5°	4208.1	3610.5	2229.4	1283.7	805.2	620.3	557.0	534.2	524.1	524.1	520.3
15°	4227.1	3461.1	1867.3	954.5	620.3	533.0	503.9	492.5	486.1	486.1	484.9
17.5°	4227.1	3289.0	1529.3	740.6	534.2	489.9	467.1	451.9	446.9	446.9	445.6
20°	4200.5	3089.0	1229.3	596.3	484.9	449.4	426.6	410.2	403.8	401.3	400.0
22.5°	4108.1	2821.8	978.6	512.7	444.4	414.0	384.9	365.9	360.8	358.3	359.5
25°	3943.5	2520.5	774.8	450.7	407.6	370.9	345.6	331.7	326.6	326.6	327.9
27.5°	3773.8	2205.3	614.0	403.8	363.3	330.4	310.2	301.3	300.0	303.8	305.1
30°	3616.9	1888.8	497.5	365.9	324.1	296.2	282.3	279.8	279.8	281.0	282.3
32.5°	3442.2	1611.6	416.5	332.9	292.4	268.4	260.8	260.8	263.3	263.3	265.9
35°	3332.0	1373.6	365.9	301.3	268.4	248.1	243.1	244.3	248.1	253.2	255.7
37.5°	3272.5	1183.7	332.9	276.0	245.6	231.7	226.6	229.1	238.0	246.9	248.1
40°	3277.6	1040.6	306.4	254.5	227.9	212.7	208.9	216.5	225.3	234.2	235.5
42.5°	3333.3	934.3	281.0	229.1	212.7	191.2	189.9	197.5	201.3	210.2	211.4
45°	3399.1	857.1	254.5	202.6	184.8	165.8	167.1	173.4	178.5	192.4	195.0
47.5°	3419.4	803.9	224.1	172.2	151.9	145.6	146.9	150.6	160.8	173.4	174.7
50°	3442.2	771.0	195.0	145.6	129.1	127.9	129.1	131.7	138.0	143.1	141.8
52.5°	3539.6	769.7	170.9	126.6	110.1	112.7	113.9	112.7	107.6	100.0	97.5
54°	3630.8	773.5	159.5	117.7	101.3	105.1	103.8	97.5	84.8	77.2	73.4
55°	3704.2	777.3	153.2	111.4	96.2	97.5	98.7	86.1	69.6	62.0	59.5
57.5°	3848.5	768.4	138.0	97.5	84.8	79.8	78.5	57.0	38.0	32.9	30.4
60°	3776.4	693.7	125.3	83.6	72.2	64.6	53.2	31.6	19.0	13.9	13.9
62.5°	3492.8	588.7	111.4	68.4	59.5	49.4	27.9	17.7	8.9	5.1	3.8
65°	3124.4	495.0	100.0	54.4	46.8	31.6	15.2	11.4	3.8	0.0	0.0
67.5°	2323.0	367.1	84.8	43.0	35.4	20.3	10.1	6.3	1.3	0.0	0.0
70°	1076.1	224.1	72.2	32.9	25.3	15.2	7.6	3.8	0.0	0.0	0.0
72.5°	308.9	140.5	59.5	24.1	17.7	12.7	6.3	2.5	1.3	0.0	0.0
75°	107.6	112.7	44.3	17.7	13.9	8.9	5.1	2.5	1.3	0.0	0.0
77.5°	64.6	91.1	27.9	15.2	11.4	7.6	5.1	2.5	1.3	1.3	0.0
80°	36.7	60.8	17.7	12.7	10.1	6.3	3.8	2.5	1.3	1.3	0.0
82.5°	20.3	29.1	13.9	11.4	8.9	6.3	3.8	2.5	1.3	1.3	1.3
85°	16.5	15.2	11.4	10.1	7.6	5.1	3.8	1.3	0.0	0.0	0.0
87.5°	12.7	10.1	10.1	10.1	7.6	5.1	3.8	1.3	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)