

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: P458980

Luminaire Tested: **GALN-SA5A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458980
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 17479 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

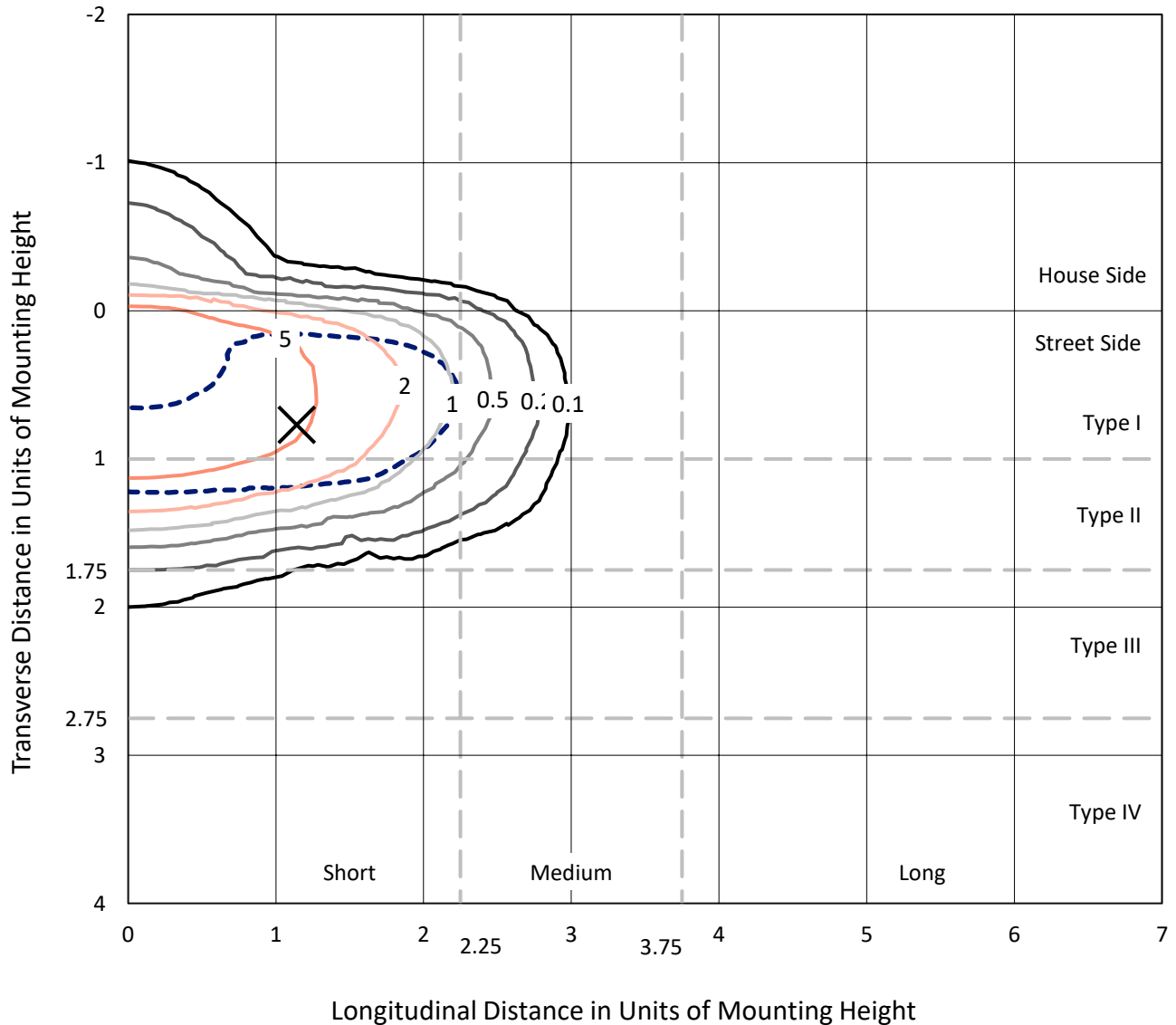
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

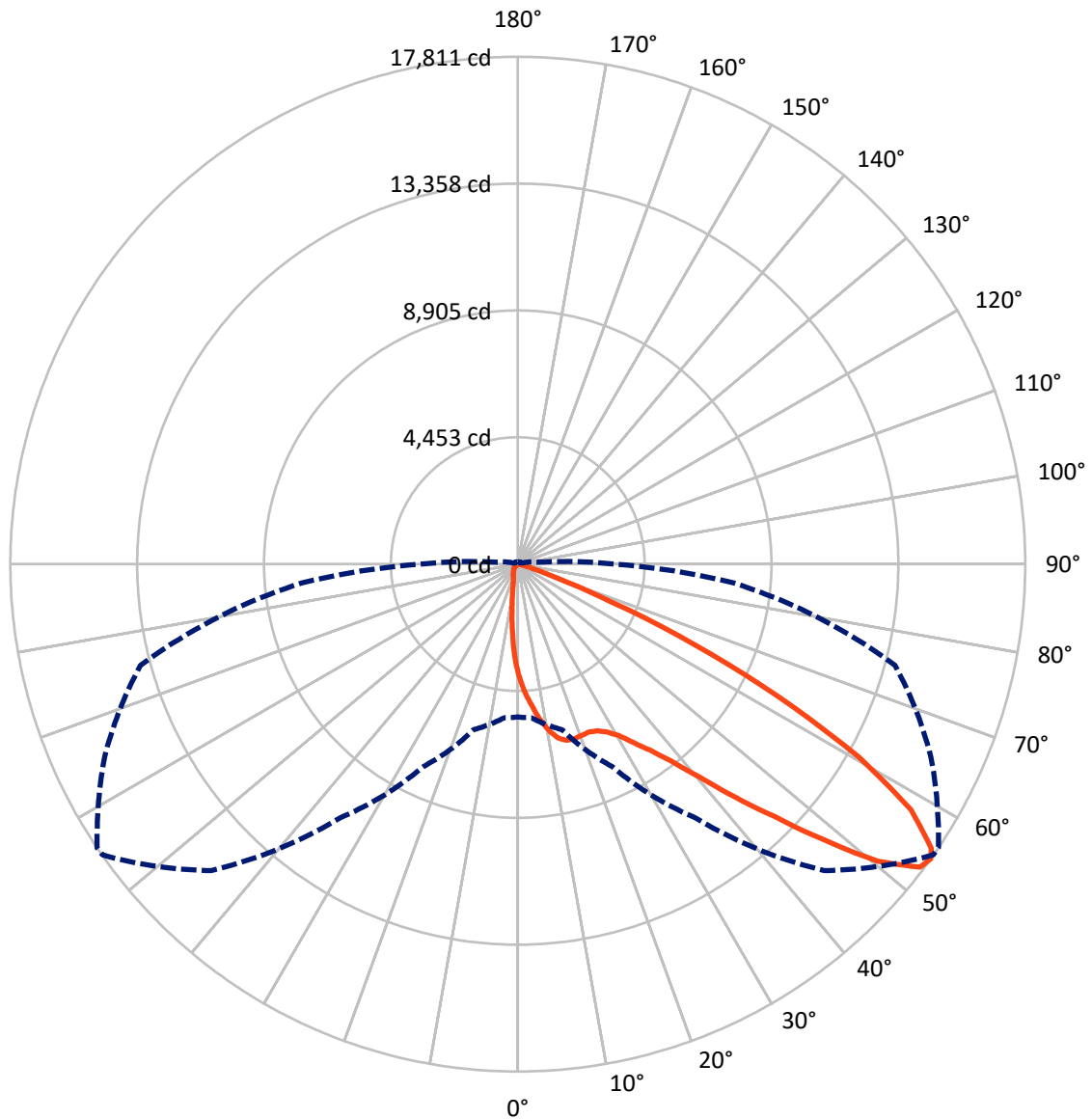
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	826.5	0.0	826.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16652.5	0.0	16652.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	17479.0	0.0	17479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.2	2.0
10°-20°	927.7	5.3
20°-30°	1606.6	9.2
30°-40°	2773.3	15.9
40°-50°	4720.3	27.0
50°-60°	4671.3	26.7
60°-70°	2132.1	12.2
70°-80°	273.8	1.6
80°-90°	30.9	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°	17479.0	100.0
0°-180°	17479.0	100.0

Coefficient of Utilization



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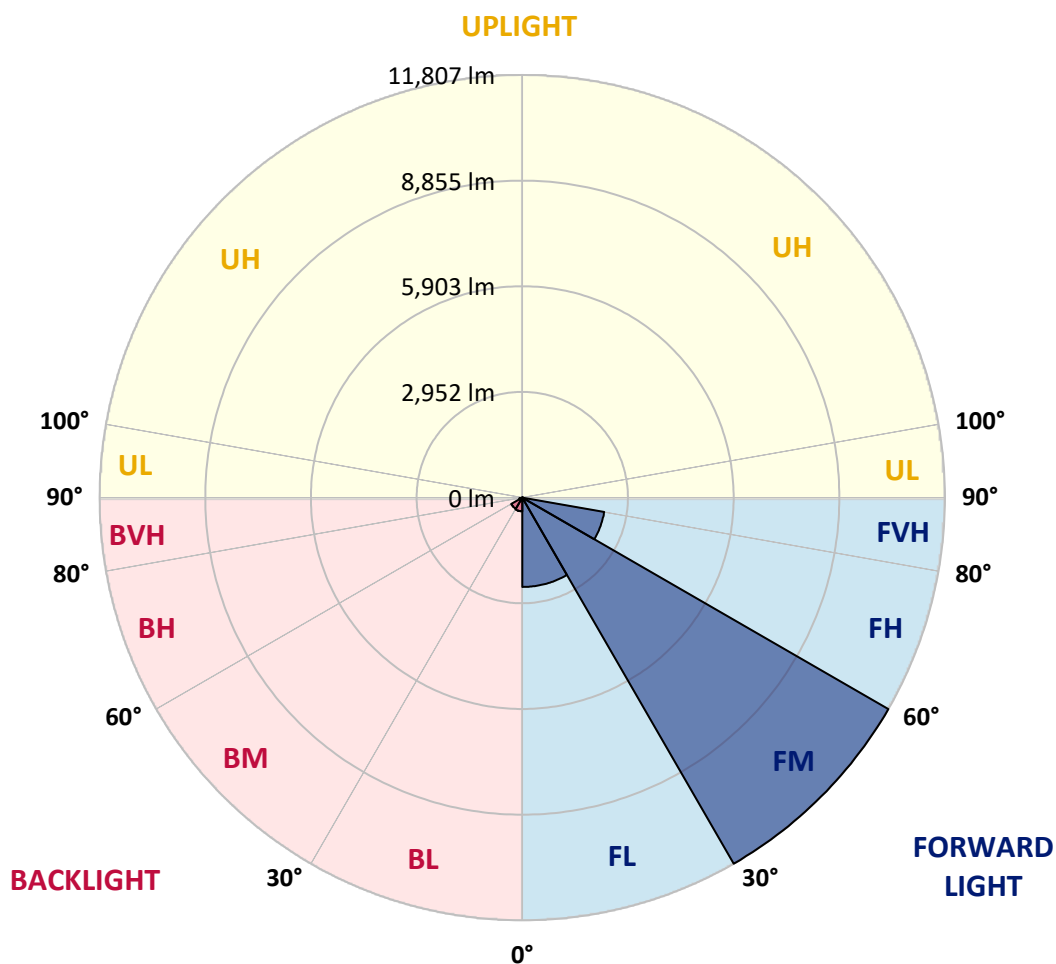
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.2	14.3			
FM (30°-60°)	11806.6	67.5			
FH (60°-80°)	2323.1	13.3			G2/5000
FVH (80°-90°)	27.5	0.2			G1/100
BL (0°-30°)	382.3	2.2	B1/500		
BM (30°-60°)	358.2	2.0	B1/1000		
BH (60°-80°)	82.8	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	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°	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3
2.5°	4935.2	4901.0	4853.9	4817.3	4731.2	4607.4	4476.5	4476.5	4350.3	4174.6	3995.4
5°	5692.3	5669.9	5623.9	5529.6	5432.9	5259.5	4996.6	4950.6	4725.3	4406.9	4072.0
7.5°	6000.1	6010.7	6013.1	5988.3	5942.3	5771.3	5510.7	5478.9	5119.2	4692.3	4172.3
10°	5705.3	5757.2	5807.9	5910.5	6055.5	6096.8	5949.4	5916.4	5562.6	4981.2	4280.7
12.5°	5266.6	5294.9	5323.2	5484.8	5776.1	6109.8	6264.3	6263.1	5963.6	5269.0	4418.7
15°	5062.6	5087.4	5089.7	5161.7	5414.0	5899.9	6398.7	6416.4	6355.1	5623.9	4567.3
17.5°	5105.1	5125.1	5108.6	5126.3	5258.4	5668.7	6383.4	6442.3	6672.3	5964.7	4701.7
20°	5382.2	5421.1	5357.4	5307.9	5348.0	5607.4	6331.5	6414.0	6896.4	6297.3	4824.4
22.5°	5879.8	5901.1	5820.9	5685.3	5614.5	5736.0	6317.3	6398.7	7087.4	6569.7	4895.1
25°	6432.9	6425.8	6337.4	6185.3	6036.7	5995.4	6410.5	6483.6	7245.4	6815.0	4916.4
27.5°	6986.0	7007.2	6858.6	6669.9	6491.9	6384.6	6619.2	6673.5	7423.5	7094.5	4942.3
30°	7628.7	7594.5	7448.3	7232.5	7028.4	6878.7	6955.3	6970.7	7668.8	7464.8	5010.7
32.5°	8464.8	8370.4	8206.5	7829.2	7682.9	7429.4	7448.3	7467.1	7967.1	7831.5	5093.3
35°	9599.2	9594.5	9273.8	8765.5	8409.4	8094.5	8012.0	8027.3	8418.8	8376.3	5276.0
37.5°	10964.8	10983.7	10618.1	10106.3	9450.7	8950.6	8780.8	8783.2	9105.1	9128.7	5554.4
40°	12076.9	12126.4	11908.3	11562.7	10915.3	10133.5	9848.1	9822.1	10069.8	10040.3	5951.8
42.5°	12555.7	12601.7	12683.0	12803.3	12447.2	11802.1	11128.8	11164.1	11239.6	11033.2	6397.5
45°	12321.0	12394.1	12713.7	13456.6	13791.5	13574.6	12771.5	12647.7	12328.1	12112.3	6845.7
47.5°	11343.4	11521.5	12055.7	13292.7	14464.9	15198.4	14625.3	14461.4	13417.7	12900.0	7131.0
50°	9736.0	9746.7	10490.8	12072.2	14115.8	16223.2	16518.0	16395.4	14433.1	13342.2	7274.9
52.5°	7057.9	7290.2	7971.9	9803.3	12604.0	16067.5	17724.4	17673.7	15480.3	13568.7	7482.5
54°	5365.7	5410.5	6016.6	7833.9	10867.0	15212.6	17798.7	17810.5	16000.3	13705.5	7605.1
55°	4398.7	4291.4	4928.2	6673.5	9681.8	14456.7	17555.8	17612.4	16233.8	13776.2	7695.9
57.5°	2084.9	2086.1	2573.2	3520.1	6063.8	11225.5	16071.1	16271.5	16259.8	13897.7	7975.4
60°	1055.4	1062.5	1169.8	1625.0	2995.3	7462.4	13288.0	13765.6	15008.6	13915.4	8067.4
62.5°	738.2	730.0	712.3	781.9	1260.6	3792.5	9892.9	10308.0	12751.4	13242.0	7774.9
65°	632.1	614.4	564.9	554.3	636.8	1510.6	6161.7	6838.6	9736.0	11466.0	6942.4
67.5°	540.1	533.0	488.2	461.1	450.5	658.0	3179.3	3535.4	6654.6	8241.9	5258.4
70°	458.7	455.2	428.1	393.9	364.4	393.9	1179.3	1461.1	3708.8	4437.6	2481.2
72.5°	372.6	376.2	380.9	337.3	306.6	279.5	503.5	586.1	1551.9	1586.1	867.9
75°	326.7	323.1	323.1	293.6	255.9	207.6	277.1	298.4	475.2	441.0	201.7
77.5°	230.0	221.7	259.4	241.8	213.4	147.4	158.0	167.5	196.9	168.6	94.3
80°	159.2	159.2	166.3	217.0	192.2	107.3	96.7	103.8	116.7	100.2	54.2
82.5°	89.6	92.0	108.5	115.6	112.0	71.9	63.7	64.9	77.8	68.4	34.2
85°	10.6	17.7	62.5	61.3	46.0	31.8	35.4	36.6	48.4	42.5	20.0
87.5°	1.2	2.4	13.0	16.5	11.8	13.0	13.0	13.0	16.5	18.9	14.2
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°	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3	3883.3
2.5°	3898.7	3809.0	3595.6	3347.9	3189.9	2932.8	2715.9	2559.0	2520.1	2444.6	2467.0
5°	3893.9	3707.6	3272.5	2812.6	2322.0	1956.4	1684.0	1469.4	1375.0	1312.5	1268.9
7.5°	3896.3	3605.0	2906.9	2174.6	1588.5	1230.0	977.6	846.7	759.4	722.9	727.6
10°	3903.4	3489.5	2482.4	1610.9	1072.0	794.8	640.3	577.8	548.4	543.6	542.5
12.5°	3919.9	3363.3	2076.7	1195.8	750.0	577.8	518.9	497.7	488.2	488.2	484.7
15°	3937.6	3224.1	1739.4	889.2	577.8	496.5	469.3	458.7	452.8	452.8	451.7
17.5°	3937.6	3063.7	1424.6	689.9	497.7	456.4	435.2	421.0	416.3	416.3	415.1
20°	3912.8	2877.4	1145.1	555.4	451.7	418.6	397.4	382.1	376.2	373.8	372.6
22.5°	3826.7	2628.6	911.6	477.6	413.9	385.6	358.5	340.8	336.1	333.7	334.9
25°	3673.4	2347.9	721.7	419.8	379.7	345.5	321.9	309.0	304.3	304.3	305.4
27.5°	3515.4	2054.3	571.9	376.2	338.5	307.8	288.9	280.7	279.5	283.0	284.2
30°	3369.2	1759.5	463.5	340.8	301.9	275.9	263.0	260.6	260.6	261.8	263.0
32.5°	3206.4	1501.2	388.0	310.1	272.4	250.0	242.9	242.9	245.3	245.3	247.6
35°	3103.8	1279.5	340.8	280.7	250.0	231.1	226.4	227.6	231.1	235.9	238.2
37.5°	3048.4	1102.6	310.1	257.1	228.8	215.8	211.1	213.4	221.7	230.0	231.1
40°	3053.1	969.4	285.4	237.0	212.3	198.1	194.6	201.7	209.9	218.2	219.3
42.5°	3105.0	870.3	261.8	213.4	198.1	178.1	176.9	184.0	187.5	195.8	196.9
45°	3166.3	798.4	237.0	188.7	172.2	154.5	155.7	161.6	166.3	179.2	181.6
47.5°	3185.2	748.8	208.7	160.4	141.5	135.6	136.8	140.3	149.8	161.6	162.7
50°	3206.4	718.2	181.6	135.6	120.3	119.1	120.3	122.6	128.5	133.3	132.1
52.5°	3297.2	717.0	159.2	117.9	102.6	105.0	106.1	105.0	100.2	93.2	90.8
54°	3382.1	720.5	148.6	109.7	94.3	97.9	96.7	90.8	79.0	71.9	68.4
55°	3450.5	724.1	142.7	103.8	89.6	90.8	92.0	80.2	64.9	57.8	55.4
57.5°	3585.0	715.8	128.5	90.8	79.0	74.3	73.1	53.1	35.4	30.7	28.3
60°	3517.8	646.2	116.7	77.8	67.2	60.1	49.5	29.5	17.7	13.0	13.0
62.5°	3253.6	548.4	103.8	63.7	55.4	46.0	25.9	16.5	8.3	4.7	3.5
65°	2910.4	461.1	93.2	50.7	43.6	29.5	14.2	10.6	3.5	0.0	0.0
67.5°	2164.0	342.0	79.0	40.1	33.0	18.9	9.4	5.9	1.2	0.0	0.0
70°	1002.4	208.7	67.2	30.7	23.6	14.2	7.1	3.5	0.0	0.0	0.0
72.5°	287.7	130.9	55.4	22.4	16.5	11.8	5.9	2.4	1.2	0.0	0.0
75°	100.2	105.0	41.3	16.5	13.0	8.3	4.7	2.4	1.2	0.0	0.0
77.5°	60.1	84.9	25.9	14.2	10.6	7.1	4.7	2.4	1.2	1.2	0.0
80°	34.2	56.6	16.5	11.8	9.4	5.9	3.5	2.4	1.2	1.2	0.0
82.5°	18.9	27.1	13.0	10.6	8.3	5.9	3.5	2.4	1.2	1.2	1.2
85°	15.3	14.2	10.6	9.4	7.1	4.7	3.5	1.2	0.0	0.0	0.0
87.5°	11.8	9.4	9.4	9.4	7.1	4.7	3.5	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)