

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: P455007

Luminaire Tested: **GALN-SA6A-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455007
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-SA6A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 17655 lumens
Efficiency: N/A
Efficacy: 97.0 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): 182
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

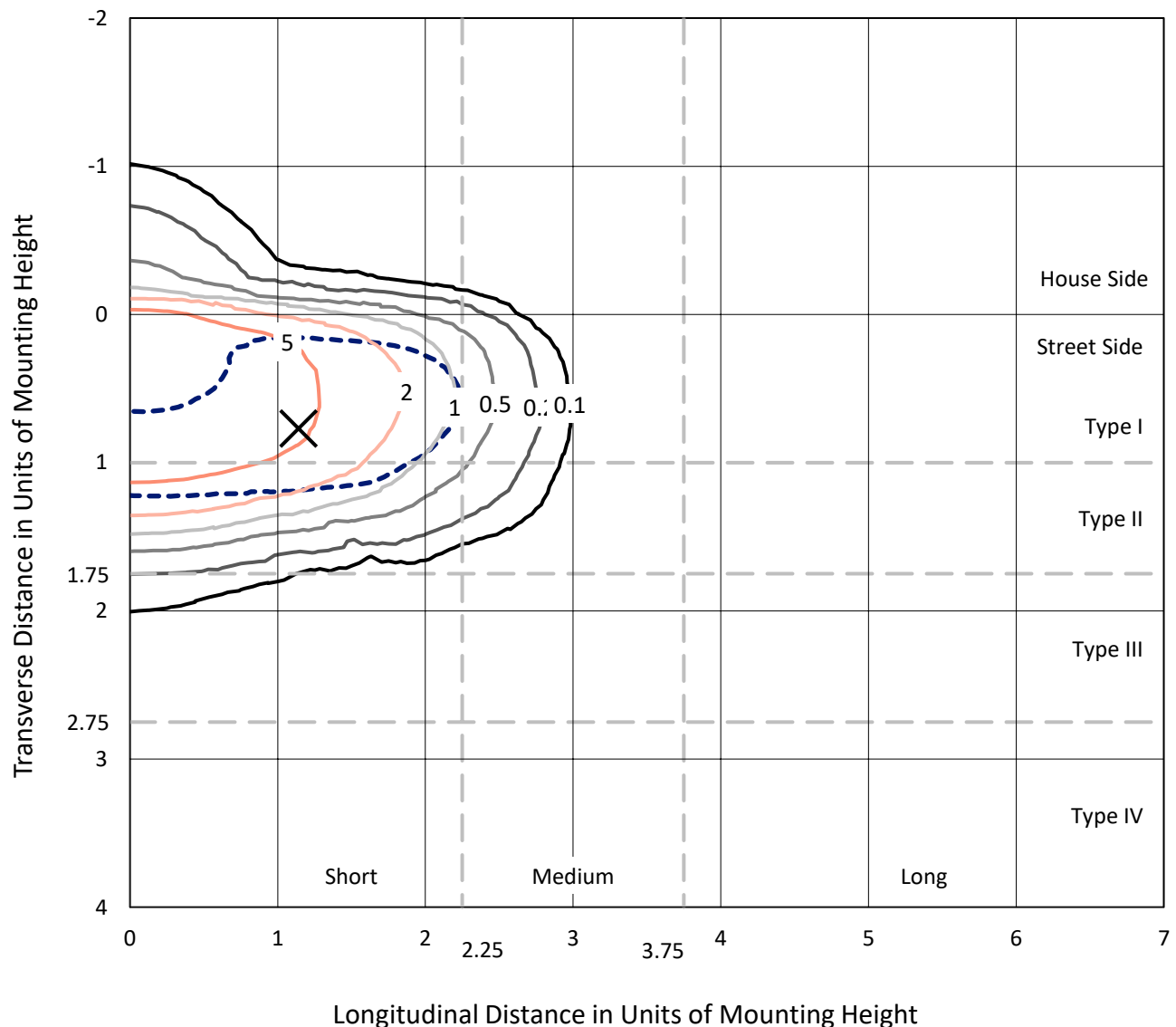


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Iso-Footcandle Lines of Horizontal Illumination

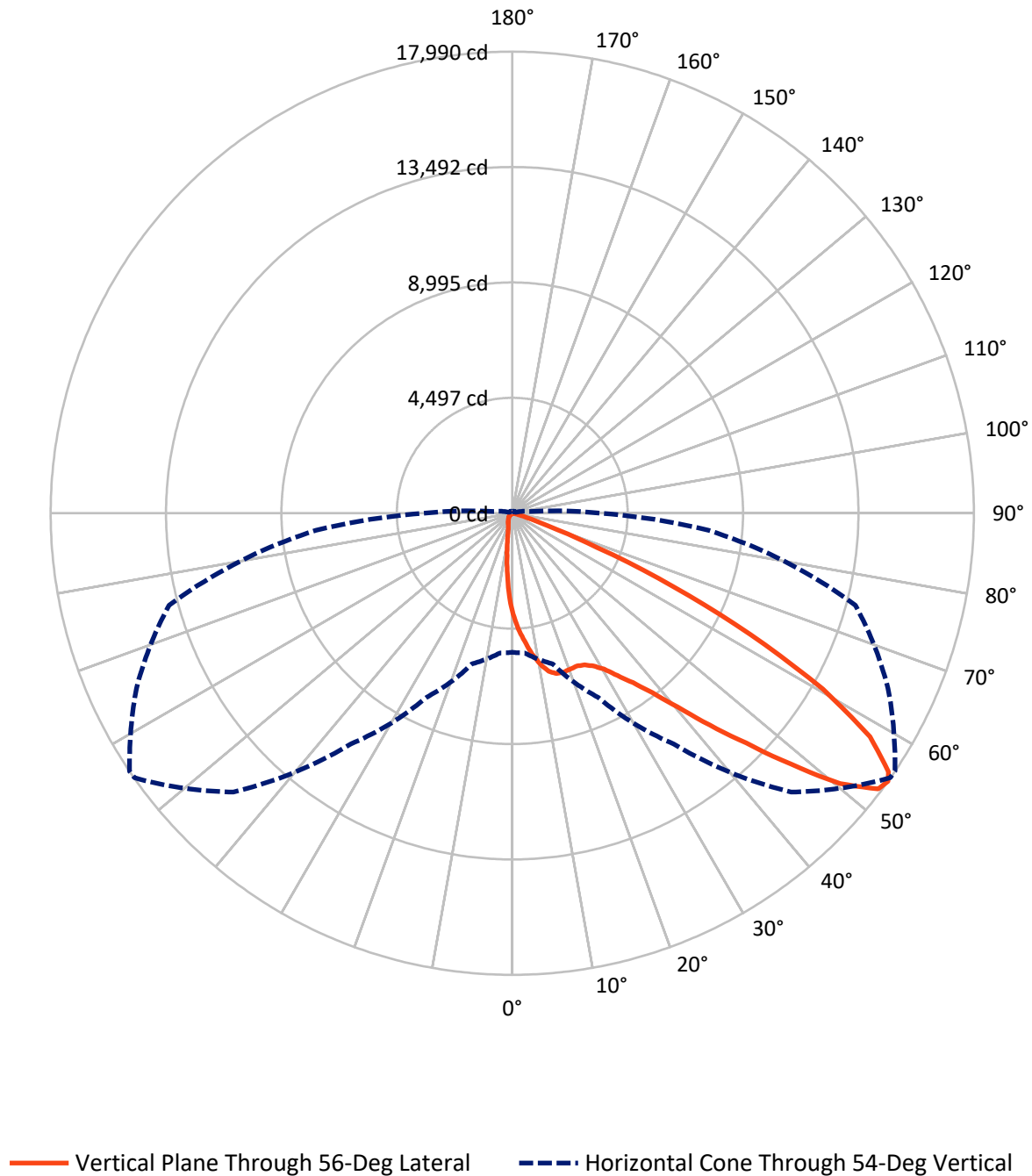
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.9	0.0	834.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16820.1	0.0	16820.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	17655.0	0.0	17655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	2.0
10°-20°	937.0	5.3
20°-30°	1622.8	9.2
30°-40°	2801.2	15.9
40°-50°	4767.8	27.0
50°-60°	4718.3	26.7
60°-70°	2153.5	12.2
70°-80°	276.6	1.6
80°-90°	31.2	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°	17655.0	100.0
0°-180°	17655.0	100.0

Coefficient of Utilization



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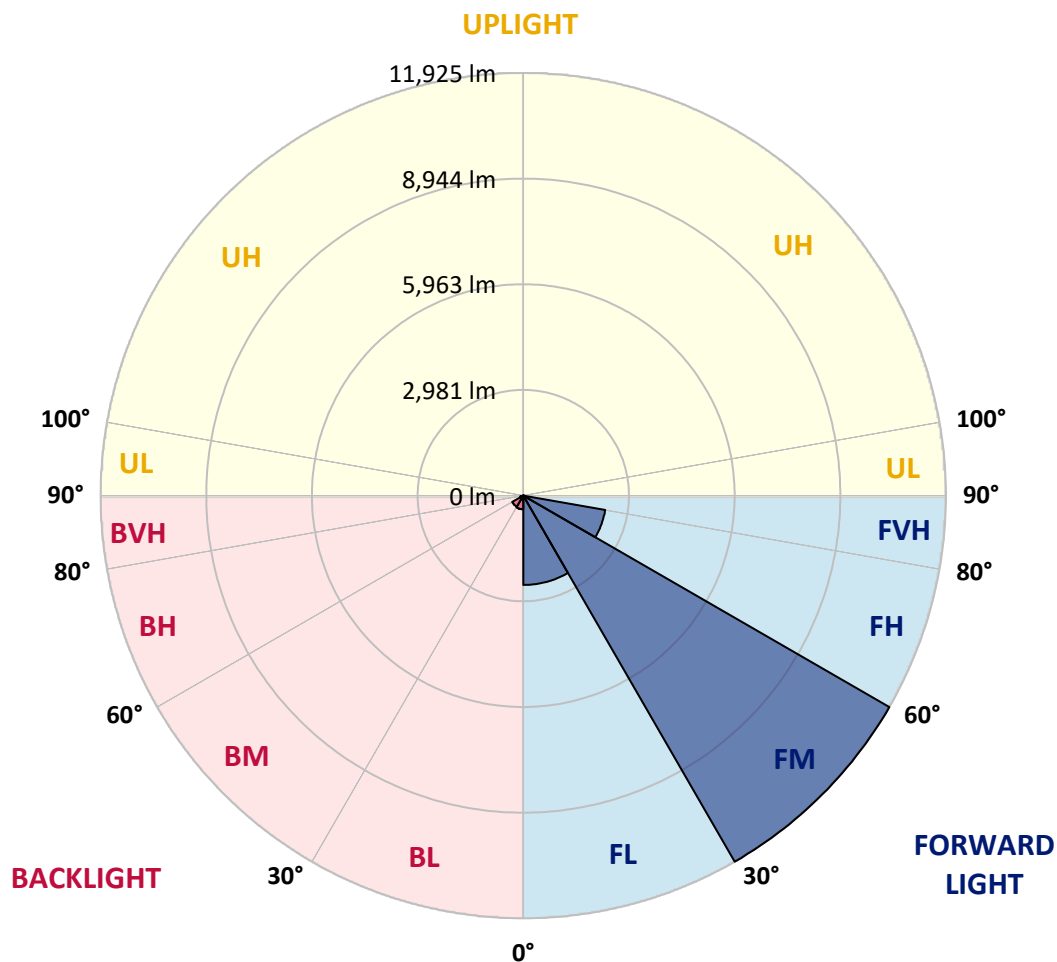
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2520.3	14.3			
FM	(30°-60°)	11925.5	67.5			
FH	(60°-80°)	2346.5	13.3			G2/5000
FVH	(80°-90°)	27.8	0.2			G1/100
BL	(0°-30°)	386.1	2.2	B1/500		
BM	(30°-60°)	361.8	2.0	B1/1000		
BH	(60°-80°)	83.6	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°	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4
2.5°	4984.9	4950.4	4902.7	4865.8	4778.9	4653.8	4521.6	4521.6	4394.1	4216.6	4035.6
5°	5749.6	5727.0	5680.6	5585.3	5487.6	5312.5	5046.9	5000.4	4772.9	4451.3	4113.0
7.5°	6060.5	6071.3	6073.6	6048.6	6002.2	5829.5	5566.2	5534.0	5170.8	4739.6	4214.3
10°	5762.7	5815.2	5866.4	5970.0	6116.5	6158.2	6009.3	5976.0	5618.6	5031.4	4323.8
12.5°	5319.6	5348.2	5376.8	5540.0	5834.2	6171.3	6327.4	6326.2	6023.6	5322.0	4463.2
15°	5113.6	5138.6	5141.0	5213.6	5468.5	5959.3	6463.1	6481.0	6419.1	5680.6	4613.3
17.5°	5156.5	5176.7	5160.0	5177.9	5311.3	5725.8	6447.7	6507.2	6739.5	6024.8	4749.1
20°	5436.4	5475.7	5411.4	5361.3	5401.8	5663.9	6395.2	6478.6	6965.8	6360.7	4873.0
22.5°	5939.0	5960.5	5879.5	5742.5	5671.0	5793.7	6381.0	6463.1	7158.8	6635.9	4944.4
25°	6497.7	6490.5	6401.2	6247.5	6097.5	6055.8	6475.1	6548.9	7318.4	6883.6	4965.9
27.5°	7056.3	7077.8	6927.7	6737.1	6557.2	6448.8	6685.9	6740.7	7498.2	7165.9	4992.1
30°	7705.5	7671.0	7523.3	7305.3	7099.2	6947.9	7025.4	7040.8	7746.0	7539.9	5061.2
32.5°	8550.0	8454.7	8289.2	7908.0	7760.3	7504.2	7523.3	7542.3	8047.4	7910.4	5144.5
35°	9695.9	9691.1	9367.1	8853.8	8494.0	8176.0	8092.6	8108.1	8503.6	8460.7	5329.2
37.5°	11075.2	11094.3	10725.1	10208.1	9545.8	9040.8	8869.2	8871.6	9196.8	9220.6	5610.3
40°	12198.5	12248.5	12028.2	11679.2	11025.2	10235.5	9947.2	9921.0	10171.2	10141.4	6011.7
42.5°	12682.1	12728.6	12810.7	12932.2	12572.5	11921.0	11240.8	11276.5	11352.8	11144.3	6462.0
45°	12445.1	12518.9	12841.7	13592.1	13930.4	13711.2	12900.1	12775.0	12452.2	12234.2	6914.6
47.5°	11457.6	11637.5	12177.1	13426.6	14610.6	15351.4	14772.6	14607.0	13552.8	13029.9	7202.8
50°	9834.1	9844.8	10596.4	12193.7	14258.0	16386.6	16684.3	16560.5	14578.4	13476.6	7348.2
52.5°	7129.0	7363.6	8052.1	9902.0	12730.9	16229.3	17902.9	17851.7	15636.1	13705.3	7557.8
54°	5419.7	5465.0	6077.2	7912.8	10976.4	15365.7	17977.9	17989.8	16161.4	13843.5	7681.7
55°	4443.0	4334.6	4977.8	6740.7	9779.3	14602.2	17732.5	17789.7	16397.3	13914.9	7773.4
57.5°	2105.9	2107.1	2599.1	3555.6	6124.9	11338.5	16232.9	16435.4	16423.5	14037.6	8055.7
60°	1066.1	1073.2	1181.6	1641.4	3025.5	7537.6	13421.8	13904.2	15159.7	14055.5	8148.6
62.5°	745.7	737.3	719.5	789.7	1273.3	3830.7	9992.5	10411.8	12879.8	13375.3	7853.2
65°	638.5	620.6	570.6	559.8	643.2	1525.9	6223.7	6907.4	9834.1	11581.5	7012.3
67.5°	545.5	538.4	493.1	465.7	455.0	664.7	3211.3	3571.0	6721.6	8324.9	5311.3
70°	463.4	459.8	432.4	397.8	368.1	397.8	1191.1	1475.8	3746.1	4482.3	2506.2
72.5°	376.4	380.0	384.7	340.7	309.7	282.3	508.6	592.0	1567.5	1602.1	876.7
75°	329.9	326.4	326.4	296.6	258.5	209.6	279.9	301.4	480.0	445.5	203.7
77.5°	232.3	223.9	262.1	244.2	215.6	148.9	159.6	169.1	198.9	170.3	95.3
80°	160.8	160.8	168.0	219.2	194.2	108.4	97.7	104.8	117.9	101.2	54.8
82.5°	90.5	92.9	109.6	116.7	113.2	72.7	64.3	65.5	78.6	69.1	34.5
85°	10.7	17.9	63.1	61.9	46.5	32.2	35.7	36.9	48.8	42.9	20.2
87.5°	1.2	2.4	13.1	16.7	11.9	13.1	13.1	13.1	16.7	19.1	14.3
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°	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4	3922.4
2.5°	3937.9	3847.4	3631.8	3381.7	3222.0	2962.4	2743.2	2584.8	2545.5	2469.2	2491.9
5°	3933.2	3745.0	3305.4	2840.9	2345.4	1976.1	1701.0	1484.2	1388.9	1325.7	1281.7
7.5°	3935.5	3641.3	2936.2	2196.5	1604.5	1242.4	987.5	855.2	767.1	730.2	734.9
10°	3942.7	3524.6	2507.4	1627.1	1082.7	802.8	646.8	583.7	553.9	549.1	547.9
12.5°	3959.4	3397.1	2097.6	1207.8	757.6	583.7	524.1	502.7	493.1	493.1	489.6
15°	3977.2	3256.6	1756.9	898.1	583.7	501.5	474.1	463.4	457.4	457.4	456.2
17.5°	3977.2	3094.6	1438.9	696.8	502.7	461.0	439.5	425.2	420.5	420.5	419.3
20°	3952.2	2906.4	1156.6	561.0	456.2	422.9	401.4	385.9	380.0	377.6	376.4
22.5°	3865.3	2655.1	920.8	482.4	418.1	389.5	362.1	344.2	339.5	337.1	338.3
25°	3710.4	2371.6	729.0	424.0	383.5	349.0	325.2	312.1	307.3	307.3	308.5
27.5°	3550.8	2075.0	577.7	380.0	341.9	310.9	291.8	283.5	282.3	285.9	287.1
30°	3403.1	1777.2	468.1	344.2	304.9	278.7	265.6	263.2	263.2	264.4	265.6
32.5°	3238.7	1516.3	391.9	313.3	275.2	252.5	245.4	245.4	247.8	247.8	250.1
35°	3135.1	1292.4	344.2	283.5	252.5	233.5	228.7	229.9	233.5	238.2	240.6
37.5°	3079.1	1113.7	313.3	259.7	231.1	218.0	213.2	215.6	223.9	232.3	233.5
40°	3083.9	979.1	288.3	239.4	214.4	200.1	196.5	203.7	212.0	220.4	221.6
42.5°	3136.3	879.1	264.4	215.6	200.1	179.9	178.7	185.8	189.4	197.7	198.9
45°	3198.2	806.4	239.4	190.6	173.9	156.0	157.2	163.2	168.0	181.1	183.4
47.5°	3217.3	756.4	210.8	162.0	142.9	137.0	138.2	141.7	151.3	163.2	164.4
50°	3238.7	725.4	183.4	137.0	121.5	120.3	121.5	123.9	129.8	134.6	133.4
52.5°	3330.4	724.2	160.8	119.1	103.6	106.0	107.2	106.0	101.2	94.1	91.7
54°	3416.2	727.8	150.1	110.8	95.3	98.9	97.7	91.7	79.8	72.7	69.1
55°	3485.3	731.4	144.1	104.8	90.5	91.7	92.9	81.0	65.5	58.4	56.0
57.5°	3621.1	723.0	129.8	91.7	79.8	75.0	73.9	53.6	35.7	31.0	28.6
60°	3553.2	652.7	117.9	78.6	67.9	60.7	50.0	29.8	17.9	13.1	13.1
62.5°	3286.4	553.9	104.8	64.3	56.0	46.5	26.2	16.7	8.3	4.8	3.6
65°	2939.7	465.7	94.1	51.2	44.1	29.8	14.3	10.7	3.6	0.0	0.0
67.5°	2185.7	345.4	79.8	40.5	33.4	19.1	9.5	6.0	1.2	0.0	0.0
70°	1012.5	210.8	67.9	31.0	23.8	14.3	7.1	3.6	0.0	0.0	0.0
72.5°	290.6	132.2	56.0	22.6	16.7	11.9	6.0	2.4	1.2	0.0	0.0
75°	101.2	106.0	41.7	16.7	13.1	8.3	4.8	2.4	1.2	0.0	0.0
77.5°	60.7	85.8	26.2	14.3	10.7	7.1	4.8	2.4	1.2	1.2	0.0
80°	34.5	57.2	16.7	11.9	9.5	6.0	3.6	2.4	1.2	1.2	0.0
82.5°	19.1	27.4	13.1	10.7	8.3	6.0	3.6	2.4	1.2	1.2	1.2
85°	15.5	14.3	10.7	9.5	7.1	4.8	3.6	1.2	0.0	0.0	0.0
87.5°	11.9	9.5	9.5	9.5	7.1	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)