

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: P452687

Luminaire Tested: **GALN-SA3C-830-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452687
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-SA3C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 13664 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

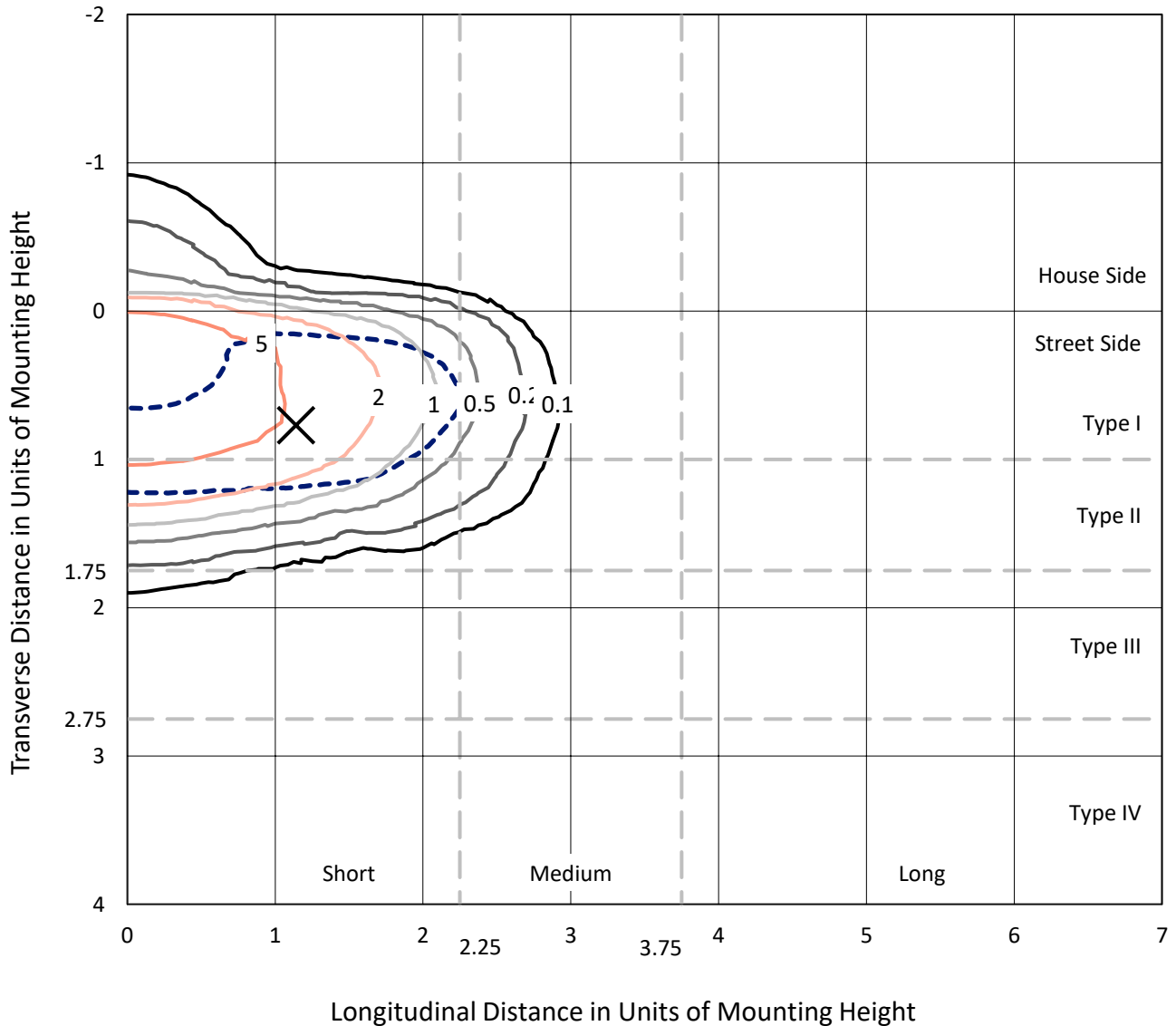
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

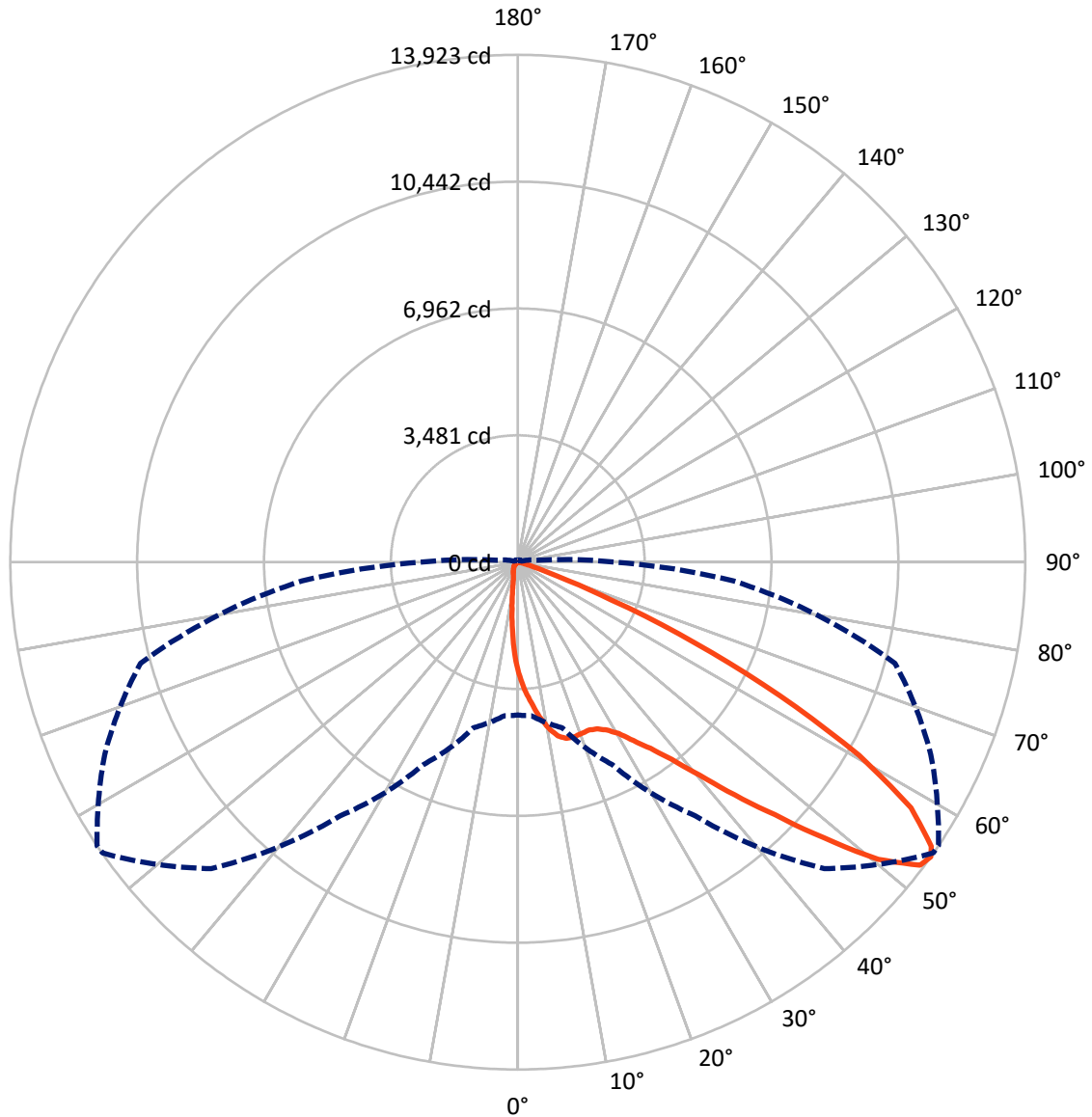
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	646.1	0.0	646.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13017.9	0.0	13017.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	13664.0	0.0	13664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	2.0
10°-20°	725.2	5.3
20°-30°	1256.0	9.2
30°-40°	2168.0	15.9
40°-50°	3690.0	27.0
50°-60°	3651.7	26.7
60°-70°	1666.7	12.2
70°-80°	214.0	1.6
80°-90°	24.1	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°	13664.0	100.0
0°-180°	13664.0	100.0

Coefficient of Utilization



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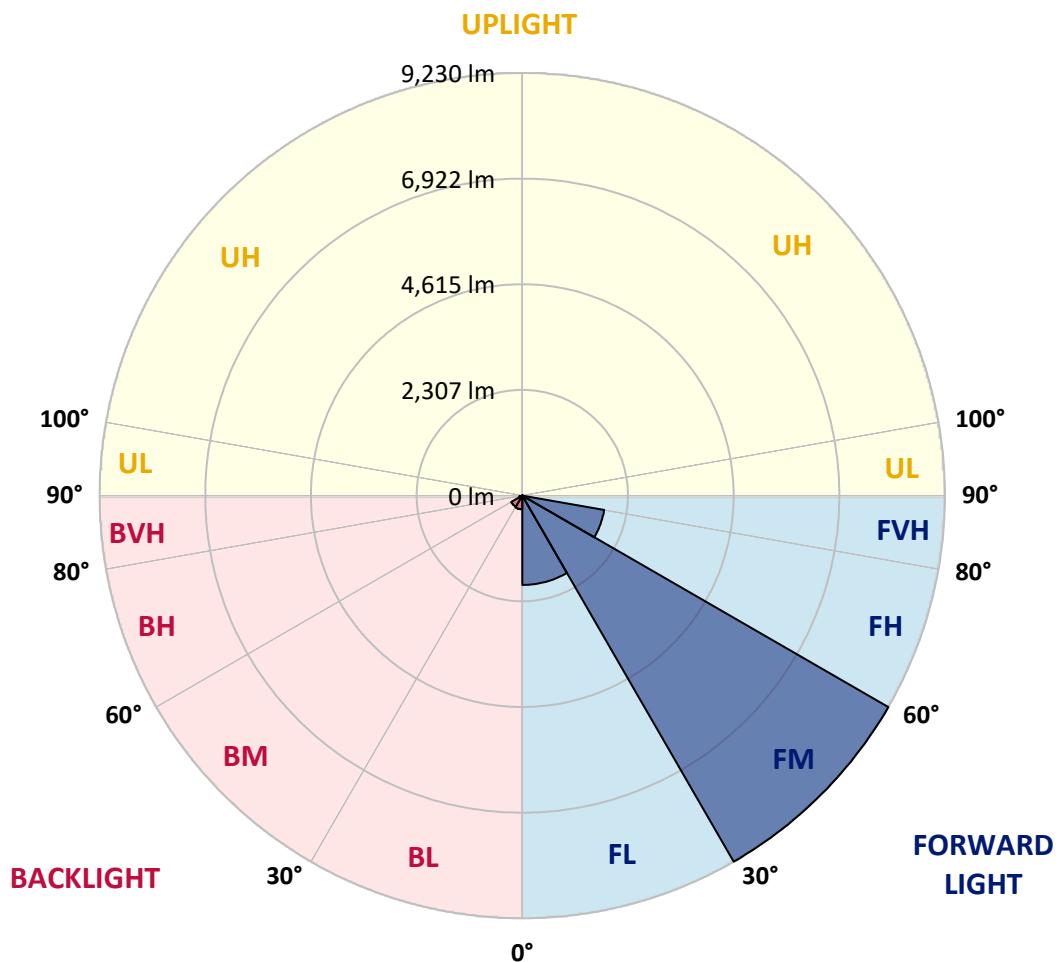
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.6	14.3			
FM (30°-60°)	9229.7	67.5			
FH (60°-80°)	1816.1	13.3			G2/5000
FVH (80°-90°)	21.5	0.2			G1/100
BL (0°-30°)	298.8	2.2	B1/500		
BM (30°-60°)	280.0	2.0	B1/1000		
BH (60°-80°)	64.7	0.5	B0/110		G0/110
BVH (80°-90°)	2.6	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°	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7
2.5°	3858.1	3831.3	3794.5	3765.9	3698.6	3601.8	3499.5	3499.5	3400.8	3263.5	3123.3
5°	4449.9	4432.4	4396.4	4322.7	4247.1	4111.6	3906.0	3870.0	3694.0	3445.1	3183.2
7.5°	4690.5	4698.8	4700.7	4681.3	4645.3	4511.7	4307.9	4283.1	4001.9	3668.2	3261.6
10°	4460.1	4500.6	4540.3	4620.5	4733.8	4766.1	4650.9	4625.1	4348.5	3894.0	3346.4
12.5°	4117.1	4139.2	4161.4	4287.7	4515.4	4776.3	4897.0	4896.1	4661.9	4119.0	3454.3
15°	3957.6	3977.0	3978.8	4035.1	4232.3	4612.2	5002.1	5015.9	4968.0	4396.4	3570.4
17.5°	3990.8	4006.5	3993.6	4007.4	4110.7	4431.5	4990.1	5036.2	5216.0	4662.9	3675.5
20°	4207.5	4237.9	4188.1	4149.4	4180.7	4383.5	4949.6	5014.1	5391.1	4922.8	3771.4
22.5°	4596.5	4613.1	4550.4	4444.4	4389.1	4484.0	4938.5	5002.1	5540.5	5135.8	3826.7
25°	5028.9	5023.3	4954.2	4835.3	4719.1	4686.8	5011.3	5068.5	5664.0	5327.5	3843.3
27.5°	5461.2	5477.8	5361.6	5214.1	5074.9	4991.1	5174.5	5216.9	5803.2	5546.0	3863.6
30°	5963.6	5936.9	5822.6	5653.9	5494.4	5377.3	5437.2	5449.2	5995.0	5835.5	3917.1
32.5°	6617.2	6543.5	6415.4	6120.4	6006.0	5807.8	5822.6	5837.3	6228.2	6122.2	3981.6
35°	7504.1	7500.4	7249.7	6852.3	6573.9	6327.8	6263.2	6275.2	6581.3	6548.1	4124.5
37.5°	8571.6	8586.4	8300.6	7900.5	7387.9	6997.1	6864.3	6866.2	7117.8	7136.3	4342.1
40°	9441.0	9479.7	9309.1	9039.0	8532.9	7921.7	7698.6	7678.3	7871.9	7848.9	4652.7
42.5°	9815.2	9851.2	9914.8	10008.8	9730.4	9226.2	8699.8	8727.4	8786.4	8625.1	5001.2
45°	9631.8	9688.9	9938.8	10519.6	10781.4	10611.8	9984.0	9887.2	9637.3	9468.6	5351.5
47.5°	8867.6	9006.8	9424.4	10391.4	11307.8	11881.2	11433.1	11305.0	10489.1	10084.4	5574.6
50°	7611.0	7619.3	8201.0	9437.3	11034.9	12682.3	12912.8	12816.9	11282.9	10430.1	5687.1
52.5°	5517.4	5699.1	6231.9	7663.6	9853.0	12560.6	13855.8	13816.2	12101.5	10607.1	5849.3
54°	4194.6	4229.6	4703.4	6124.0	8495.1	11892.2	13913.9	13923.1	12508.1	10714.1	5945.2
55°	3438.6	3354.7	3852.5	5216.9	7568.6	11301.3	13724.0	13768.3	12690.6	10769.4	6016.2
57.5°	1629.9	1630.8	2011.5	2751.8	4740.3	8775.4	12563.4	12720.1	12710.9	10864.3	6234.7
60°	825.1	830.6	914.5	1270.3	2341.6	5833.7	10387.7	10761.1	11732.8	10878.2	6306.6
62.5°	577.1	570.6	556.8	611.2	985.5	2964.8	7733.6	8058.1	9968.3	10351.8	6077.9
65°	494.1	480.3	441.6	433.3	497.8	1180.9	4816.8	5346.0	7611.0	8963.4	5427.1
67.5°	422.2	416.7	381.7	360.5	352.2	514.4	2485.4	2763.8	5202.2	6443.0	4110.7
70°	358.6	355.8	334.6	307.9	284.9	307.9	921.9	1142.2	2899.3	3469.0	1939.6
72.5°	291.3	294.1	297.8	263.7	239.7	218.5	393.6	458.2	1213.2	1239.9	678.5
75°	255.4	252.6	252.6	229.5	200.0	162.3	216.6	233.2	371.5	344.8	157.6
77.5°	179.8	173.3	202.8	189.0	166.9	115.2	123.5	130.9	154.0	131.8	73.8
80°	124.5	124.5	130.0	169.6	150.3	83.9	75.6	81.1	91.3	78.4	42.4
82.5°	70.1	71.9	84.8	90.3	87.6	56.2	49.8	50.7	60.8	53.5	26.7
85°	8.3	13.8	48.9	47.9	36.0	24.9	27.7	28.6	37.8	33.2	15.7
87.5°	0.9	1.8	10.1	12.9	9.2	10.1	10.1	10.1	12.9	14.8	11.1
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°	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7	3035.7
2.5°	3047.7	2977.7	2810.8	2617.2	2493.7	2292.7	2123.1	2000.5	1970.1	1911.1	1928.6
5°	3044.0	2898.4	2558.2	2198.7	1815.2	1529.4	1316.4	1148.7	1074.9	1026.1	991.9
7.5°	3045.9	2818.2	2272.4	1699.9	1241.8	961.5	764.2	661.9	593.7	565.1	568.8
10°	3051.4	2727.8	1940.6	1259.3	838.0	621.3	500.6	451.7	428.7	425.0	424.1
12.5°	3064.3	2629.2	1623.4	934.8	586.3	451.7	405.6	389.0	381.7	381.7	378.9
15°	3078.2	2520.4	1359.8	695.1	451.7	388.1	366.9	358.6	354.0	354.0	353.1
17.5°	3078.2	2395.0	1113.6	539.3	389.0	356.8	340.2	329.1	325.4	325.4	324.5
20°	3058.8	2249.4	895.1	434.2	353.1	327.3	310.7	298.7	294.1	292.2	291.3
22.5°	2991.5	2054.9	712.6	373.4	323.6	301.5	280.3	266.4	262.7	260.9	261.8
25°	2871.7	1835.5	564.2	328.2	296.8	270.1	251.7	241.5	237.8	237.8	238.8
27.5°	2748.1	1605.9	447.1	294.1	264.6	240.6	225.9	219.4	218.5	221.3	222.2
30°	2633.8	1375.4	362.3	266.4	236.0	215.7	205.6	203.7	203.7	204.7	205.6
32.5°	2506.6	1173.6	303.3	242.5	213.0	195.4	189.9	189.9	191.8	191.8	193.6
35°	2426.4	1000.2	266.4	219.4	195.4	180.7	177.0	177.9	180.7	184.4	186.2
37.5°	2383.1	862.0	242.5	201.0	178.8	168.7	165.0	166.9	173.3	179.8	180.7
40°	2386.7	757.8	223.1	185.3	165.9	154.9	152.1	157.6	164.1	170.5	171.5
42.5°	2427.3	680.3	204.7	166.9	154.9	139.2	138.3	143.8	146.6	153.0	154.0
45°	2475.2	624.1	185.3	147.5	134.6	120.8	121.7	126.3	130.0	140.1	142.0
47.5°	2490.0	585.4	163.2	125.4	110.6	106.0	106.9	109.7	117.1	126.3	127.2
50°	2506.6	561.4	142.0	106.0	94.0	93.1	94.0	95.9	100.5	104.2	103.3
52.5°	2577.6	560.5	124.5	92.2	80.2	82.0	83.0	82.0	78.4	72.8	71.0
54°	2643.9	563.3	116.2	85.7	73.8	76.5	75.6	71.0	61.8	56.2	53.5
55°	2697.4	566.0	111.5	81.1	70.1	71.0	71.9	62.7	50.7	45.2	43.3
57.5°	2802.5	559.6	100.5	71.0	61.8	58.1	57.2	41.5	27.7	24.0	22.1
60°	2750.0	505.2	91.3	60.8	52.5	47.0	38.7	23.0	13.8	10.1	10.1
62.5°	2543.5	428.7	81.1	49.8	43.3	36.0	20.3	12.9	6.5	3.7	2.8
65°	2275.2	360.5	72.8	39.6	34.1	23.0	11.1	8.3	2.8	0.0	0.0
67.5°	1691.6	267.3	61.8	31.3	25.8	14.8	7.4	4.6	0.9	0.0	0.0
70°	783.6	163.2	52.5	24.0	18.4	11.1	5.5	2.8	0.0	0.0	0.0
72.5°	224.9	102.3	43.3	17.5	12.9	9.2	4.6	1.8	0.9	0.0	0.0
75°	78.4	82.0	32.3	12.9	10.1	6.5	3.7	1.8	0.9	0.0	0.0
77.5°	47.0	66.4	20.3	11.1	8.3	5.5	3.7	1.8	0.9	0.9	0.0
80°	26.7	44.3	12.9	9.2	7.4	4.6	2.8	1.8	0.9	0.9	0.0
82.5°	14.8	21.2	10.1	8.3	6.5	4.6	2.8	1.8	0.9	0.9	0.9
85°	12.0	11.1	8.3	7.4	5.5	3.7	2.8	0.9	0.0	0.0	0.0
87.5°	9.2	7.4	7.4	7.4	5.5	3.7	2.8	0.9	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)