

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: P452658

Luminaire Tested: **GALN-SA3C-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452658
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 12640 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

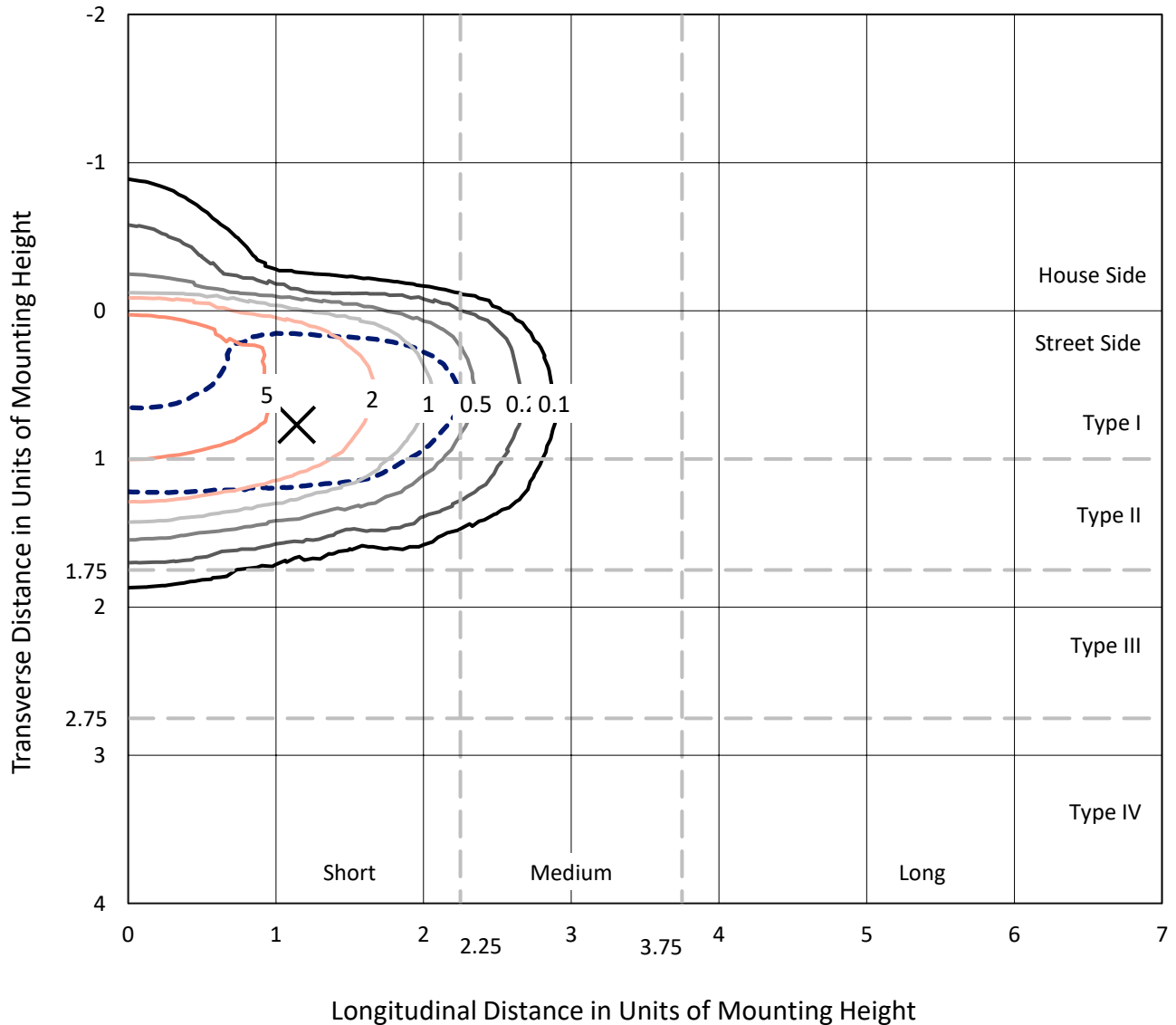
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

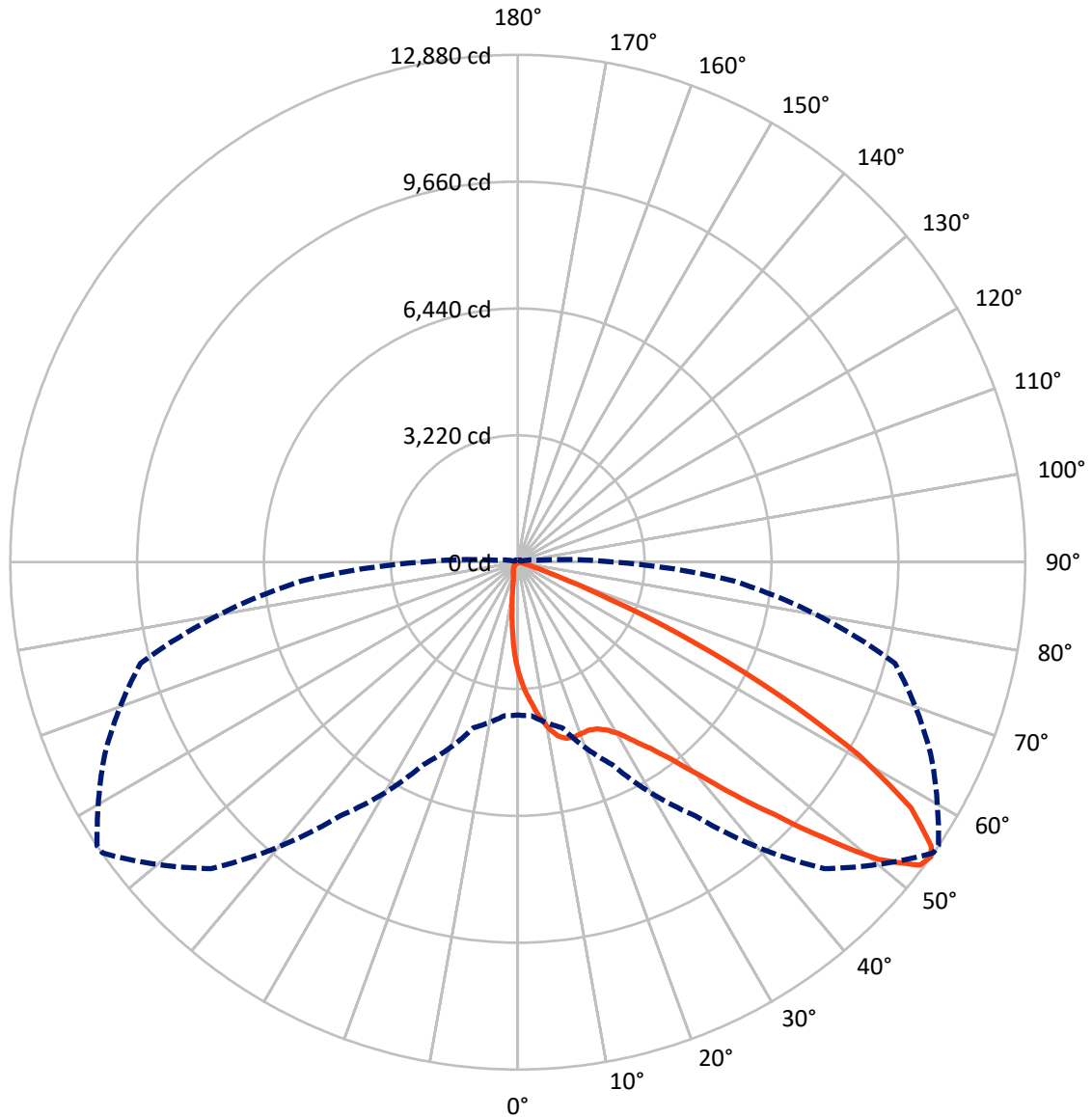
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	597.7	0.0	597.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12042.3	0.0	12042.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	12640.0	0.0	12640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	2.0
10°-20°	670.8	5.3
20°-30°	1161.8	9.2
30°-40°	2005.5	15.9
40°-50°	3413.5	27.0
50°-60°	3378.1	26.7
60°-70°	1541.8	12.2
70°-80°	198.0	1.6
80°-90°	22.3	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°	12640.0	100.0
0°-180°	12640.0	100.0

Coefficient of Utilization



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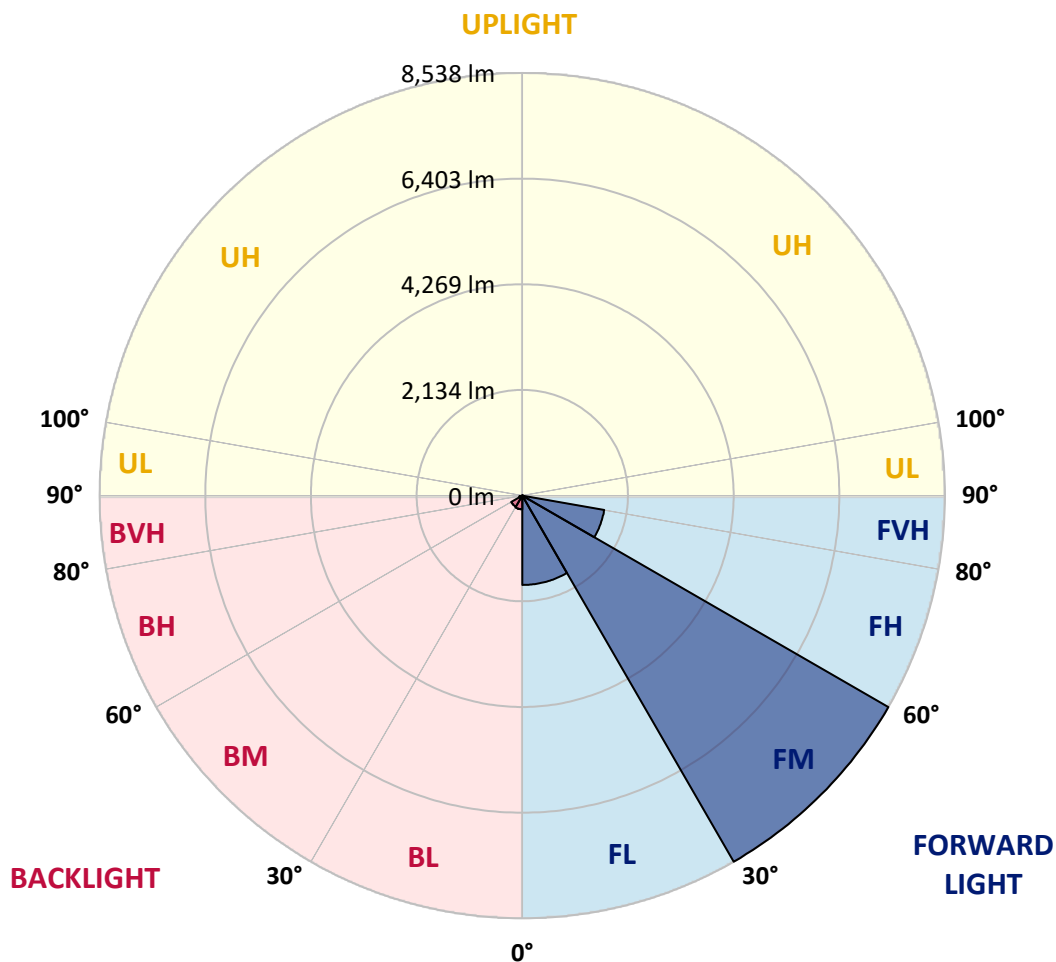
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1804.4	14.3			
FM (30°-60°)	8538.0	67.5			
FH (60°-80°)	1680.0	13.3			G1/1800
FVH (80°-90°)	19.9	0.2			G1/100
BL (0°-30°)	276.4	2.2	B1/500		
BM (30°-60°)	259.0	2.0	B1/1000		
BH (60°-80°)	59.9	0.5	B0/110		G0/110
BVH (80°-90°)	2.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	3568.9	3544.2	3510.1	3483.7	3421.4	3331.9	3237.2	3237.2	3146.0	3018.9	2889.3
5°	4116.4	4100.2	4067.0	3998.7	3928.8	3803.5	3613.3	3580.0	3417.1	3186.9	2944.7
7.5°	4339.0	4346.7	4348.4	4330.5	4297.2	4173.6	3985.1	3962.1	3702.0	3393.3	3017.2
10°	4125.8	4163.3	4200.0	4274.2	4379.1	4408.9	4302.3	4278.5	4022.6	3602.2	3095.6
12.5°	3808.6	3829.0	3849.5	3966.3	4177.0	4418.3	4530.0	4529.2	4312.6	3810.3	3195.4
15°	3661.0	3678.9	3680.7	3732.7	3915.2	4266.5	4627.3	4640.0	4595.7	4067.0	3302.9
17.5°	3691.7	3706.2	3694.3	3707.1	3802.6	4099.4	4616.2	4658.8	4825.1	4313.4	3400.1
20°	3892.1	3920.3	3874.2	3838.4	3867.4	4055.0	4578.6	4638.3	4987.1	4553.9	3488.8
22.5°	4252.0	4267.4	4209.4	4111.3	4060.1	4148.0	4568.4	4627.3	5125.3	4750.9	3539.9
25°	4652.0	4646.9	4582.9	4472.9	4365.4	4335.6	4635.8	4688.7	5239.6	4928.3	3555.3
27.5°	5051.9	5067.3	4959.8	4823.4	4694.6	4617.0	4786.7	4826.0	5368.3	5130.4	3574.1
30°	5516.7	5492.0	5386.2	5230.2	5082.6	4974.3	5029.8	5040.9	5545.7	5398.2	3623.5
32.5°	6121.3	6053.1	5934.6	5661.7	5555.9	5372.6	5386.2	5399.9	5761.5	5663.4	3683.2
35°	6941.7	6938.3	6706.4	6338.8	6081.3	5853.6	5793.9	5805.0	6088.1	6057.4	3815.4
37.5°	7929.3	7942.9	7678.5	7308.4	6834.3	6472.7	6349.9	6351.6	6584.4	6601.5	4016.7
40°	8733.4	8769.3	8611.5	8361.6	7893.4	7328.0	7121.7	7102.9	7282.0	7260.7	4304.0
42.5°	9079.7	9112.9	9171.8	9258.8	9001.2	8534.7	8047.8	8073.4	8128.0	7978.7	4626.4
45°	8910.0	8962.8	9194.0	9731.2	9973.4	9816.5	9235.7	9146.2	8915.1	8759.0	4950.5
47.5°	8203.0	8331.8	8718.1	9612.7	10460.3	10990.8	10576.3	10457.8	9703.1	9328.7	5156.8
50°	7040.7	7048.3	7586.4	8730.0	10207.9	11731.9	11945.1	11856.4	10437.3	9648.5	5260.9
52.5°	5104.0	5272.0	5764.9	7089.3	9114.6	11619.3	12817.5	12780.8	11194.6	9812.2	5411.0
54°	3880.2	3912.6	4350.9	5665.1	7858.5	11001.0	12871.2	12879.7	11570.7	9911.2	5499.7
55°	3180.9	3103.3	3563.8	4826.0	7001.4	10454.4	12695.5	12736.5	11739.5	9962.3	5565.3
57.5°	1507.7	1508.6	1860.8	2545.6	4385.1	8117.7	11621.9	11766.8	11758.3	10050.2	5767.4
60°	763.2	768.4	846.0	1175.1	2166.1	5396.5	9609.3	9954.6	10853.5	10062.9	5834.0
62.5°	533.8	527.9	515.1	565.4	911.6	2742.6	7154.1	7454.3	9221.2	9576.0	5622.5
65°	457.1	444.3	408.5	400.8	460.5	1092.4	4455.8	4945.3	7040.7	8291.7	5020.4
67.5°	390.6	385.5	353.1	333.4	325.8	475.9	2299.1	2556.7	4812.3	5960.2	3802.6
70°	331.7	329.2	309.6	284.8	263.5	284.8	852.8	1056.6	2682.0	3209.1	1794.3
72.5°	269.5	272.0	275.5	243.9	221.7	202.1	364.1	423.8	1122.3	1147.0	627.7
75°	236.2	233.7	233.7	212.3	185.1	150.1	200.4	215.8	343.7	318.9	145.8
77.5°	166.3	160.3	187.6	174.8	154.4	106.6	114.3	121.1	142.4	121.9	68.2
80°	115.1	115.1	120.2	156.9	139.0	77.6	69.9	75.0	84.4	72.5	39.2
82.5°	64.8	66.5	78.5	83.6	81.0	52.0	46.1	46.9	56.3	49.5	24.7
85°	7.7	12.8	45.2	44.3	33.3	23.0	25.6	26.4	35.0	30.7	14.5
87.5°	0.9	1.7	9.4	11.9	8.5	9.4	9.4	9.4	11.9	13.6	10.2
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°	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2	2808.2
2.5°	2819.3	2754.5	2600.2	2421.1	2306.8	2120.9	1964.0	1850.6	1822.4	1767.8	1784.0
5°	2815.9	2681.2	2366.5	2033.9	1679.1	1414.8	1217.8	1062.6	994.4	949.2	917.6
7.5°	2817.6	2607.0	2102.1	1572.5	1148.7	889.5	707.0	612.3	549.2	522.8	526.2
10°	2822.7	2523.4	1795.1	1164.9	775.2	574.8	463.1	417.9	396.5	393.1	392.3
12.5°	2834.7	2432.2	1501.8	864.7	542.4	417.9	375.2	359.9	353.1	353.1	350.5
15°	2847.5	2331.5	1257.9	643.0	417.9	359.0	339.4	331.7	327.5	327.5	326.6
17.5°	2847.5	2215.6	1030.2	498.9	359.9	330.0	314.7	304.4	301.0	301.0	300.2
20°	2829.6	2080.8	828.1	401.7	326.6	302.7	287.4	276.3	272.0	270.3	269.5
22.5°	2767.3	1900.9	659.2	345.4	299.3	278.9	259.2	246.5	243.0	241.3	242.2
25°	2656.4	1697.9	521.9	303.6	274.6	249.9	232.8	223.4	220.0	220.0	220.9
27.5°	2542.2	1485.6	413.6	272.0	244.8	222.6	208.9	203.0	202.1	204.7	205.5
30°	2436.4	1272.4	335.1	246.5	218.3	199.6	190.2	188.5	188.5	189.3	190.2
32.5°	2318.7	1085.6	280.6	224.3	197.0	180.8	175.7	175.7	177.4	177.4	179.1
35°	2244.5	925.3	246.5	203.0	180.8	167.1	163.7	164.6	167.1	170.6	172.3
37.5°	2204.5	797.4	224.3	185.9	165.4	156.1	152.6	154.4	160.3	166.3	167.1
40°	2207.9	701.0	206.4	171.4	153.5	143.3	140.7	145.8	151.8	157.8	158.6
42.5°	2245.4	629.4	189.3	154.4	143.3	128.8	127.9	133.0	135.6	141.6	142.4
45°	2289.7	577.3	171.4	136.4	124.5	111.7	112.6	116.8	120.2	129.6	131.3
47.5°	2303.4	541.5	150.9	116.0	102.3	98.1	98.9	101.5	108.3	116.8	117.7
50°	2318.7	519.4	131.3	98.1	87.0	86.1	87.0	88.7	93.0	96.4	95.5
52.5°	2384.4	518.5	115.1	85.3	74.2	75.9	76.8	75.9	72.5	67.4	65.7
54°	2445.8	521.1	107.5	79.3	68.2	70.8	69.9	65.7	57.1	52.0	49.5
55°	2495.3	523.6	103.2	75.0	64.8	65.7	66.5	58.0	46.9	41.8	40.1
57.5°	2592.5	517.6	93.0	65.7	57.1	53.7	52.9	38.4	25.6	22.2	20.5
60°	2543.9	467.3	84.4	56.3	48.6	43.5	35.8	21.3	12.8	9.4	9.4
62.5°	2352.9	396.5	75.0	46.1	40.1	33.3	18.8	11.9	6.0	3.4	2.6
65°	2104.7	333.4	67.4	36.7	31.6	21.3	10.2	7.7	2.6	0.0	0.0
67.5°	1564.9	247.3	57.1	29.0	23.9	13.6	6.8	4.3	0.9	0.0	0.0
70°	724.9	150.9	48.6	22.2	17.1	10.2	5.1	2.6	0.0	0.0	0.0
72.5°	208.1	94.7	40.1	16.2	11.9	8.5	4.3	1.7	0.9	0.0	0.0
75°	72.5	75.9	29.8	11.9	9.4	6.0	3.4	1.7	0.9	0.0	0.0
77.5°	43.5	61.4	18.8	10.2	7.7	5.1	3.4	1.7	0.9	0.9	0.0
80°	24.7	40.9	11.9	8.5	6.8	4.3	2.6	1.7	0.9	0.9	0.0
82.5°	13.6	19.6	9.4	7.7	6.0	4.3	2.6	1.7	0.9	0.9	0.9
85°	11.1	10.2	7.7	6.8	5.1	3.4	2.6	0.9	0.0	0.0	0.0
87.5°	8.5	6.8	6.8	6.8	5.1	3.4	2.6	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)