

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: P451846

Luminaire Tested: **GALN-SA2D-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451846
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-SA2D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11608 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

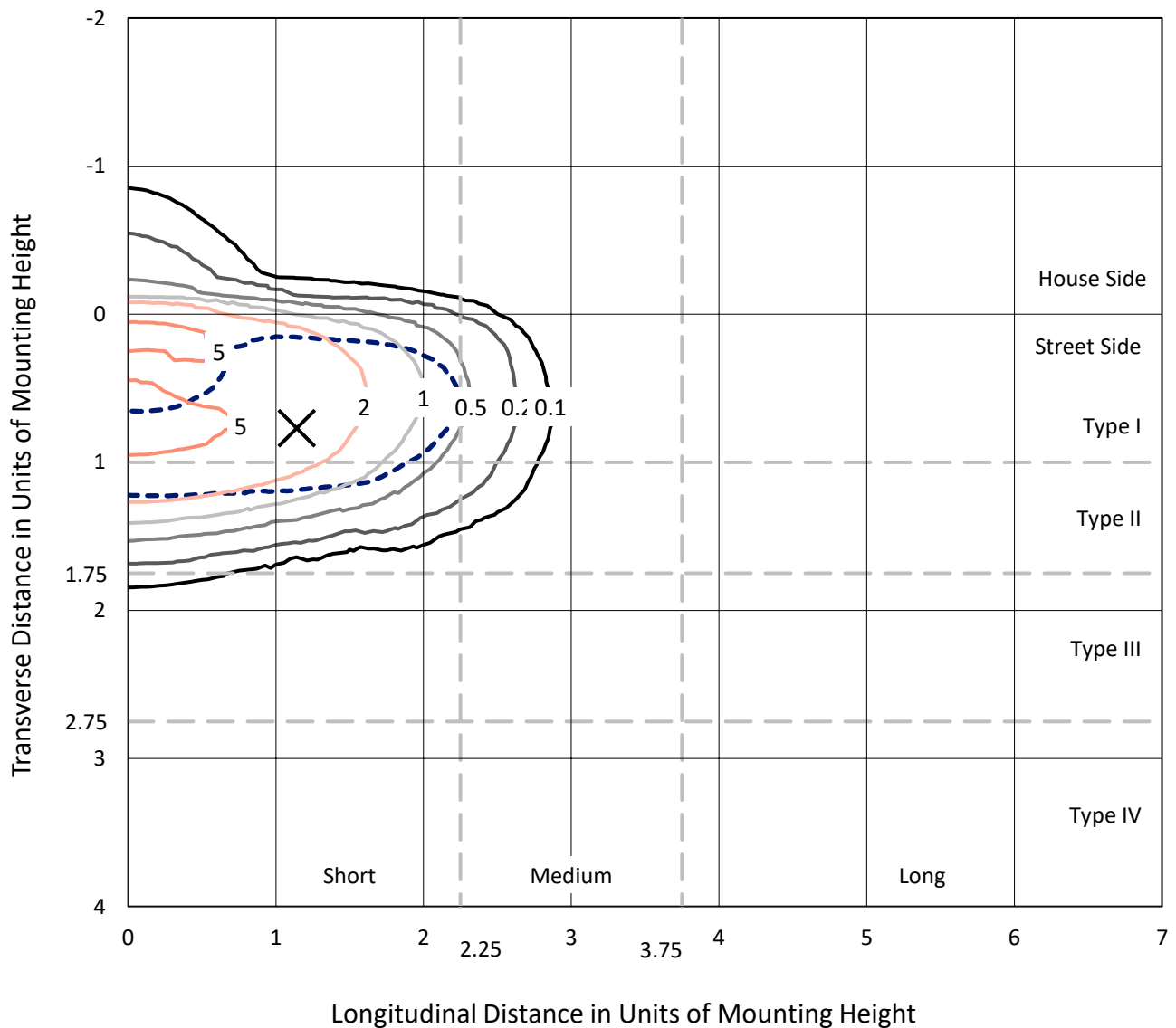
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

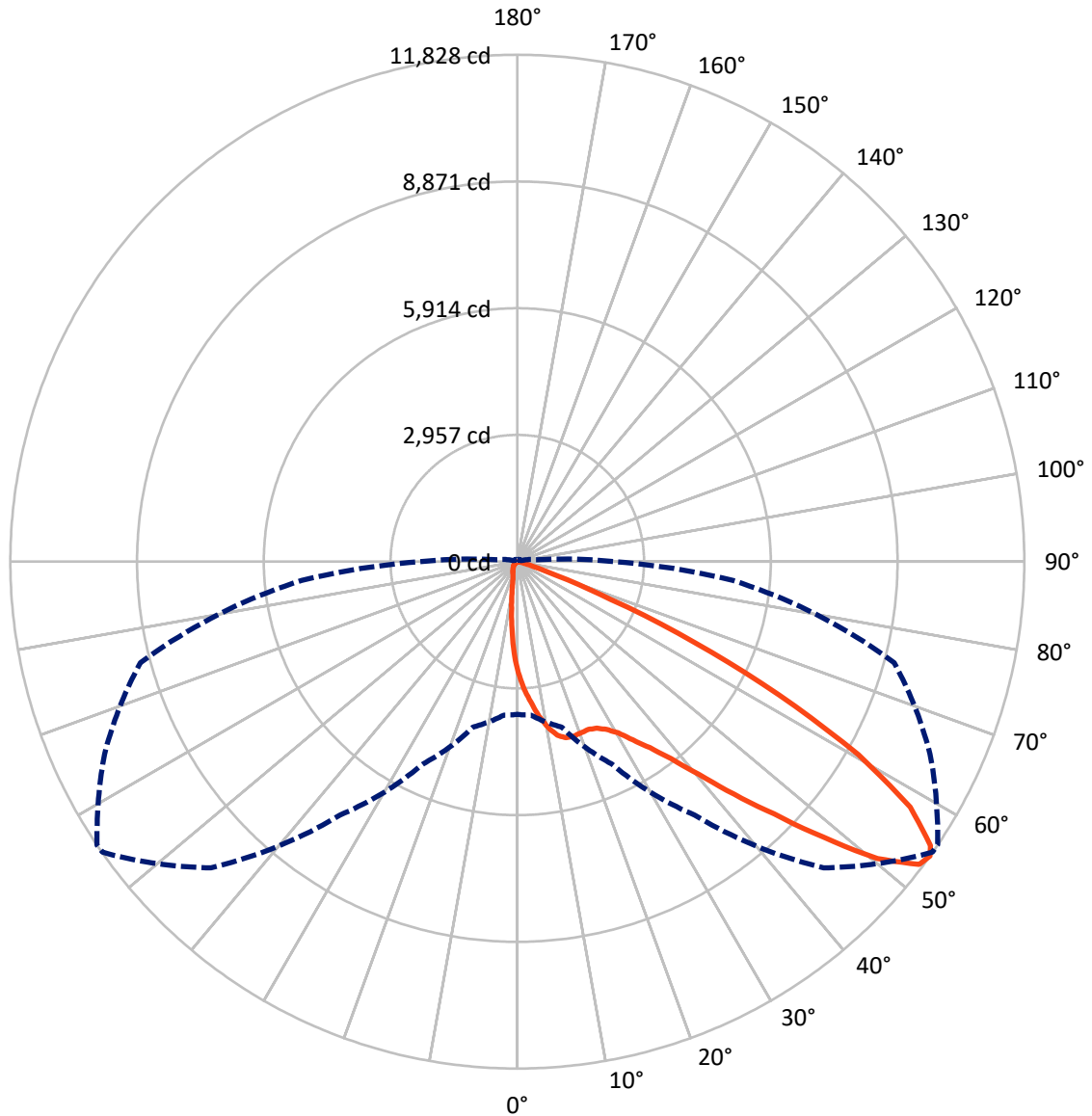
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	548.9	0.0	548.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11059.1	0.0	11059.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	11608.0	0.0	11608.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	2.0
10°-20°	616.1	5.3
20°-30°	1067.0	9.2
30°-40°	1841.8	15.9
40°-50°	3134.8	27.0
50°-60°	3102.2	26.7
60°-70°	1415.9	12.2
70°-80°	181.8	1.6
80°-90°	20.5	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°	11608.0	100.0
0°-180°	11608.0	100.0



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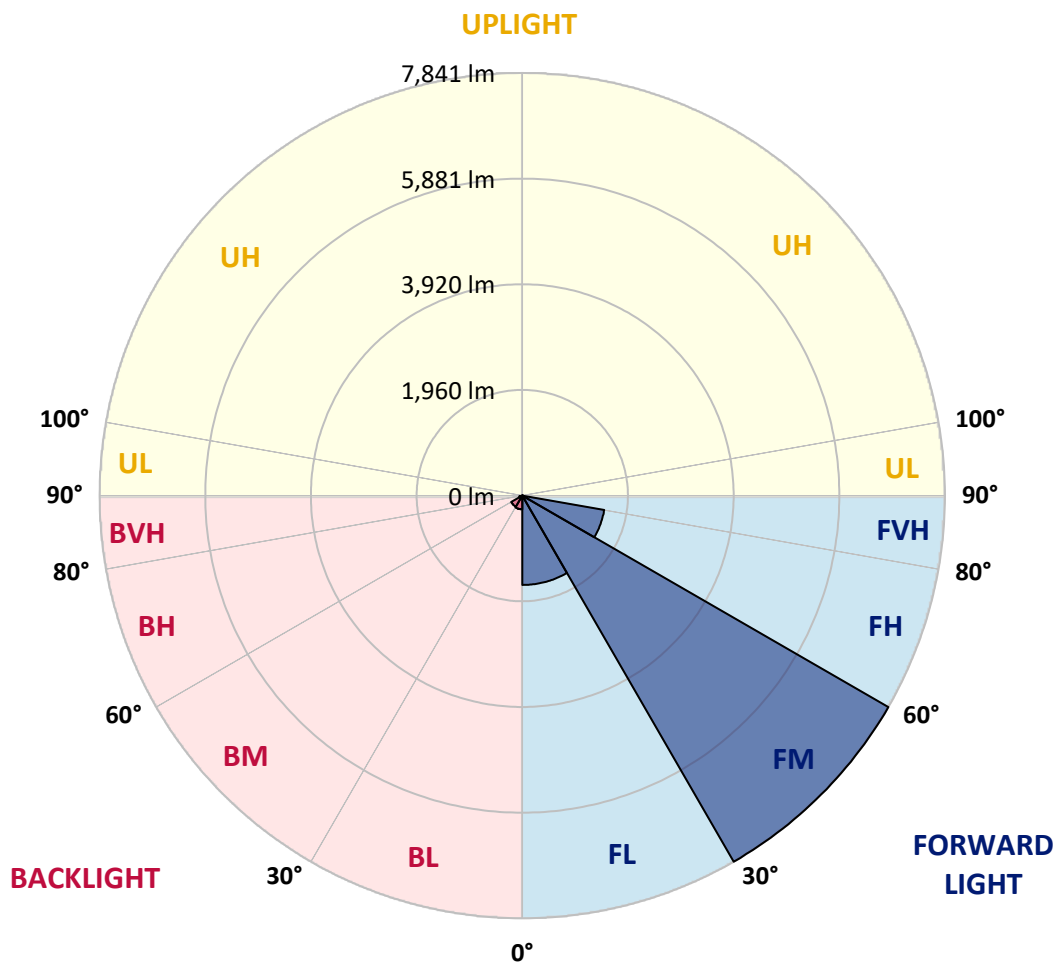
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.1	14.3			
FM (30°-60°)	7840.9	67.5			
FH (60°-80°)	1542.8	13.3			G1/1800
FVH (80°-90°)	18.3	0.2			G1/100
BL (0°-30°)	253.9	2.2	B1/500		
BM (30°-60°)	237.9	2.0	B1/1000		
BH (60°-80°)	55.0	0.5	B0/110		G0/110
BVH (80°-90°)	2.2	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°	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0
2.5°	3277.5	3254.8	3223.5	3199.2	3142.1	3059.8	2972.9	2972.9	2889.1	2772.4	2653.4
5°	3780.3	3765.5	3734.9	3672.3	3608.0	3492.9	3318.3	3287.7	3138.1	2926.7	2704.3
7.5°	3984.7	3991.8	3993.4	3976.9	3946.4	3832.8	3659.7	3638.6	3399.7	3116.2	2770.8
10°	3789.0	3823.4	3857.1	3925.2	4021.6	4049.0	3951.1	3929.1	3694.2	3308.1	2842.9
12.5°	3497.6	3516.4	3535.2	3642.5	3835.9	4057.6	4160.2	4159.4	3960.5	3499.2	2934.5
15°	3362.1	3378.6	3380.1	3427.9	3595.5	3918.2	4249.5	4261.2	4220.5	3734.9	3033.2
17.5°	3390.3	3403.6	3392.7	3404.4	3492.1	3764.7	4239.3	4278.4	4431.2	3961.3	3122.5
20°	3574.4	3600.2	3557.9	3525.0	3551.7	3724.0	4204.8	4259.6	4580.0	4182.1	3203.9
22.5°	3904.9	3919.0	3865.7	3775.6	3728.7	3809.3	4195.4	4249.5	4706.8	4363.0	3250.9
25°	4272.2	4267.5	4208.7	4107.7	4009.0	3981.6	4257.3	4305.8	4811.8	4525.9	3265.0
27.5°	4639.5	4653.6	4554.9	4429.6	4311.3	4240.1	4395.9	4431.9	4930.0	4711.5	3282.2
30°	5066.3	5043.6	4946.5	4803.2	4667.7	4568.2	4619.1	4629.3	5092.9	4957.4	3327.7
32.5°	5621.6	5558.9	5450.0	5199.4	5102.3	4933.9	4946.5	4959.0	5291.1	5201.0	3382.5
35°	6375.0	6371.8	6158.8	5821.3	5584.8	5375.6	5320.8	5331.0	5591.0	5562.8	3503.9
37.5°	7281.9	7294.4	7051.6	6711.7	6276.3	5944.2	5831.5	5833.0	6046.8	6062.5	3688.7
40°	8020.4	8053.3	7908.4	7678.9	7249.0	6729.7	6540.2	6523.0	6687.5	6667.9	3952.6
42.5°	8338.4	8368.9	8422.9	8502.8	8266.3	7837.9	7390.7	7414.2	7464.4	7327.3	4248.7
45°	8182.5	8231.1	8443.3	8936.7	9159.1	9015.0	8481.7	8399.4	8187.2	8043.9	4546.3
47.5°	7533.3	7651.5	8006.3	8827.8	9606.3	10093.4	9712.8	9604.0	8910.9	8567.0	4735.8
50°	6465.8	6472.9	6967.0	8017.3	9374.5	10774.0	10969.8	10888.3	9585.2	8860.7	4831.3
52.5°	4687.2	4841.5	5294.2	6510.5	8370.5	10670.6	11771.0	11737.3	10280.6	9011.1	4969.2
54°	3563.4	3593.2	3995.7	5202.6	7216.9	10102.8	11820.3	11828.1	10626.0	9101.9	5050.6
55°	2921.2	2849.9	3272.8	4431.9	6429.8	9600.8	11659.0	11696.6	10781.1	9148.9	5110.9
57.5°	1384.6	1385.4	1708.9	2337.7	4027.0	7455.0	10673.0	10806.1	10798.3	9229.6	5296.5
60°	700.9	705.6	776.9	1079.2	1989.2	4955.9	8824.7	9141.9	9967.3	9241.4	5357.6
62.5°	490.3	484.8	473.0	519.2	837.2	2518.7	6570.0	6845.6	8468.4	8794.2	5163.4
65°	419.8	408.0	375.1	368.1	422.9	1003.2	4092.0	4541.6	6465.8	7614.7	4610.5
67.5°	358.7	354.0	324.2	306.2	299.2	437.0	2111.4	2347.9	4419.4	5473.5	3492.1
70°	304.7	302.3	284.3	261.6	242.0	261.6	783.2	970.3	2463.1	2947.1	1647.8
72.5°	247.5	249.8	253.0	224.0	203.6	185.6	334.4	389.2	1030.6	1053.4	576.4
75°	216.9	214.6	214.6	195.0	169.9	137.8	184.0	198.1	315.6	292.9	133.9
77.5°	152.7	147.2	172.3	160.5	141.8	97.9	104.9	111.2	130.8	112.0	62.7
80°	105.7	105.7	110.4	144.1	127.7	71.3	64.2	68.9	77.5	66.6	36.0
82.5°	59.5	61.1	72.1	76.8	74.4	47.8	42.3	43.1	51.7	45.4	22.7
85°	7.0	11.7	41.5	40.7	30.5	21.1	23.5	24.3	32.1	28.2	13.3
87.5°	0.8	1.6	8.6	11.0	7.8	8.6	8.6	8.6	11.0	12.5	9.4
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°	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0	2579.0
2.5°	2589.1	2529.6	2387.9	2223.4	2118.5	1947.7	1803.6	1699.5	1673.6	1623.5	1638.4
5°	2586.0	2462.3	2173.3	1867.8	1542.1	1299.3	1118.4	975.8	913.2	871.7	842.7
7.5°	2587.6	2394.1	1930.5	1444.2	1054.9	816.8	649.2	562.3	504.4	480.1	483.2
10°	2592.3	2317.4	1648.6	1069.8	711.9	527.9	425.3	383.8	364.2	361.0	360.3
12.5°	2603.2	2233.6	1379.2	794.1	498.1	383.8	344.6	330.5	324.2	324.2	321.9
15°	2615.0	2141.2	1155.2	590.5	383.8	329.7	311.7	304.7	300.7	300.7	300.0
17.5°	2615.0	2034.7	946.1	458.2	330.5	303.1	289.0	279.6	276.5	276.5	275.7
20°	2598.5	1910.9	760.5	368.9	300.0	278.0	263.9	253.7	249.8	248.3	247.5
22.5°	2541.4	1745.7	605.4	317.2	274.9	256.1	238.1	226.3	223.2	221.6	222.4
25°	2439.6	1559.3	479.3	278.8	252.2	229.5	213.8	205.2	202.1	202.1	202.8
27.5°	2334.6	1364.3	379.8	249.8	224.8	204.4	191.9	186.4	185.6	188.0	188.7
30°	2237.5	1168.5	307.8	226.3	200.5	183.3	174.6	173.1	173.1	173.9	174.6
32.5°	2129.4	997.0	257.7	206.0	180.9	166.0	161.3	161.3	162.9	162.9	164.5
35°	2061.3	849.7	226.3	186.4	166.0	153.5	150.4	151.2	153.5	156.6	158.2
37.5°	2024.5	732.3	206.0	170.7	151.9	143.3	140.2	141.8	147.2	152.7	153.5
40°	2027.6	643.8	189.5	157.4	141.0	131.6	129.2	133.9	139.4	144.9	145.7
42.5°	2062.1	578.0	173.9	141.8	131.6	118.3	117.5	122.2	124.5	130.0	130.8
45°	2102.8	530.2	157.4	125.3	114.3	102.6	103.4	107.3	110.4	119.0	120.6
47.5°	2115.3	497.3	138.6	106.5	94.0	90.1	90.8	93.2	99.5	107.3	108.1
50°	2129.4	476.9	120.6	90.1	79.9	79.1	79.9	81.4	85.4	88.5	87.7
52.5°	2189.7	476.2	105.7	78.3	68.1	69.7	70.5	69.7	66.6	61.9	60.3
54°	2246.1	478.5	98.7	72.8	62.7	65.0	64.2	60.3	52.5	47.8	45.4
55°	2291.5	480.9	94.8	68.9	59.5	60.3	61.1	53.3	43.1	38.4	36.8
57.5°	2380.8	475.4	85.4	60.3	52.5	49.3	48.6	35.2	23.5	20.4	18.8
60°	2336.2	429.2	77.5	51.7	44.6	39.9	32.9	19.6	11.7	8.6	8.6
62.5°	2160.8	364.2	68.9	42.3	36.8	30.5	17.2	11.0	5.5	3.1	2.3
65°	1932.9	306.2	61.9	33.7	29.0	19.6	9.4	7.0	2.3	0.0	0.0
67.5°	1437.1	227.1	52.5	26.6	21.9	12.5	6.3	3.9	0.8	0.0	0.0
70°	665.7	138.6	44.6	20.4	15.7	9.4	4.7	2.3	0.0	0.0	0.0
72.5°	191.1	86.9	36.8	14.9	11.0	7.8	3.9	1.6	0.8	0.0	0.0
75°	66.6	69.7	27.4	11.0	8.6	5.5	3.1	1.6	0.8	0.0	0.0
77.5°	39.9	56.4	17.2	9.4	7.0	4.7	3.1	1.6	0.8	0.8	0.0
80°	22.7	37.6	11.0	7.8	6.3	3.9	2.3	1.6	0.8	0.8	0.0
82.5°	12.5	18.0	8.6	7.0	5.5	3.9	2.3	1.6	0.8	0.8	0.8
85°	10.2	9.4	7.0	6.3	4.7	3.1	2.3	0.8	0.0	0.0	0.0
87.5°	7.8	6.3	6.3	6.3	4.7	3.1	2.3	0.8	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)