

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: P452107

Luminaire Tested: **GALN-SA3A-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452107
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-SA3A-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 11185 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

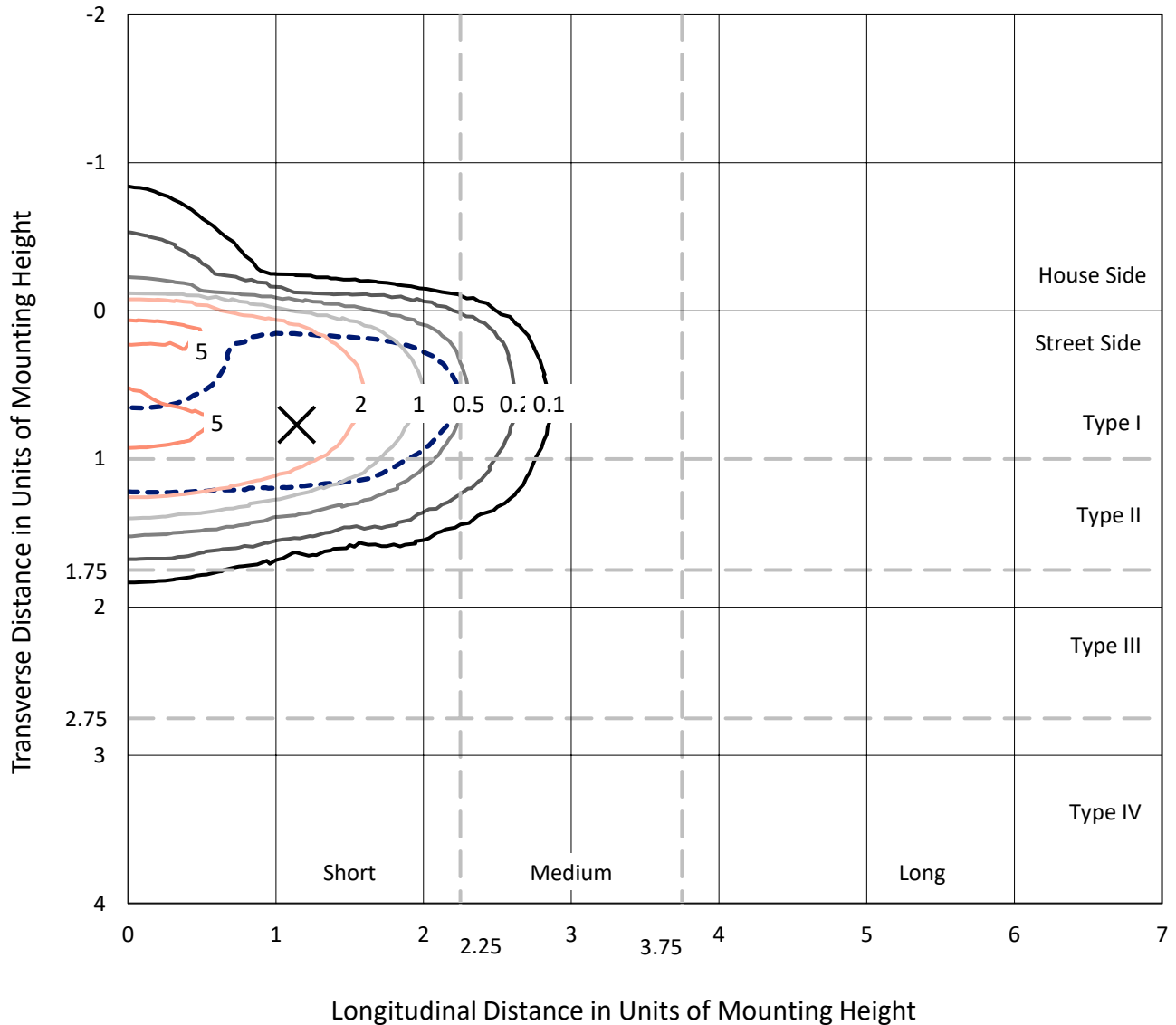
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

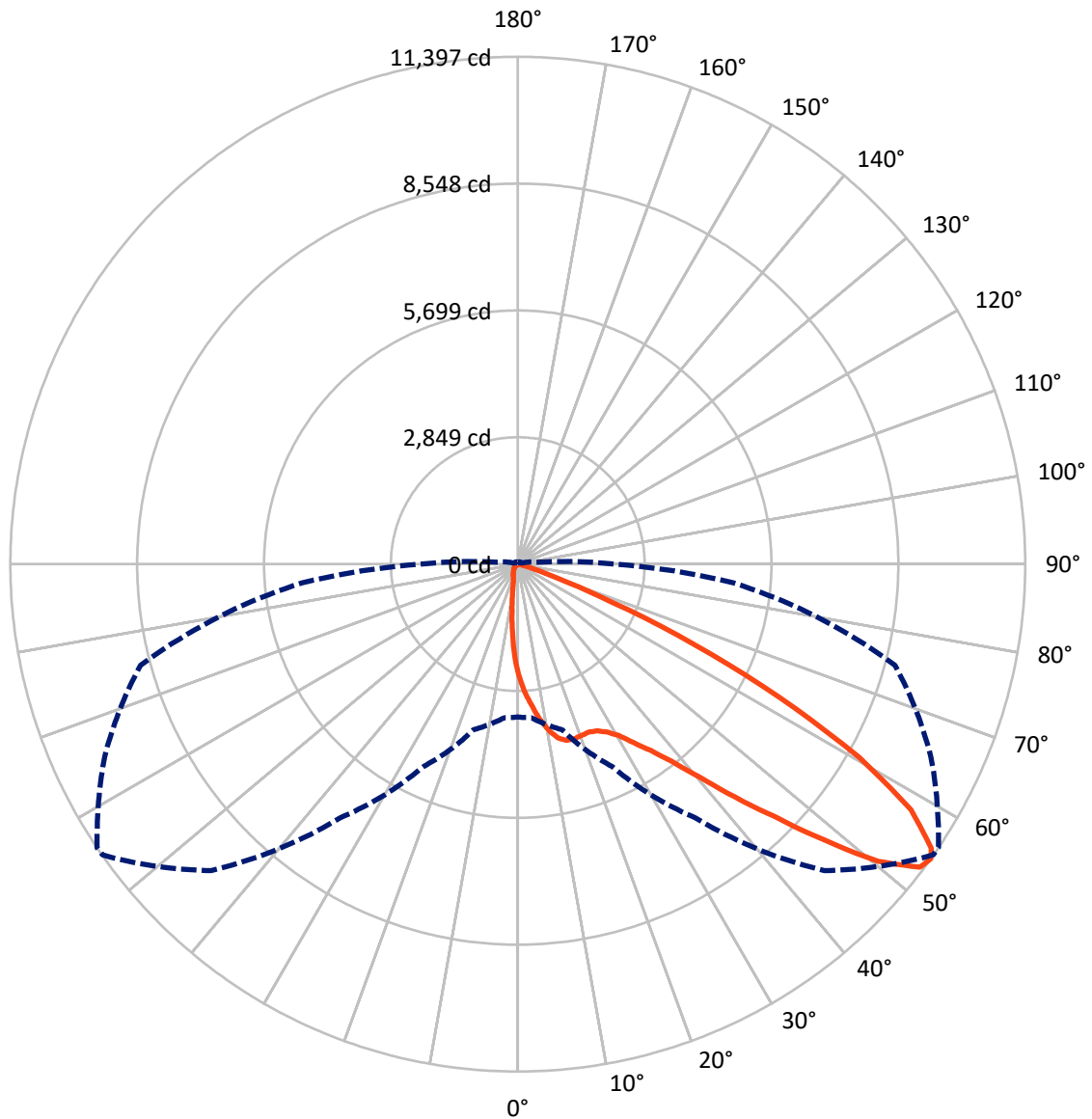
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	528.9	0.0	528.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10656.1	0.0	10656.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	11185.0	0.0	11185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	2.0
10°-20°	593.6	5.3
20°-30°	1028.1	9.2
30°-40°	1774.7	15.9
40°-50°	3020.5	27.0
50°-60°	2989.2	26.7
60°-70°	1364.3	12.2
70°-80°	175.2	1.6
80°-90°	19.7	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°	11185.0	100.0
0°-180°	11185.0	100.0

Coefficient of Utilization



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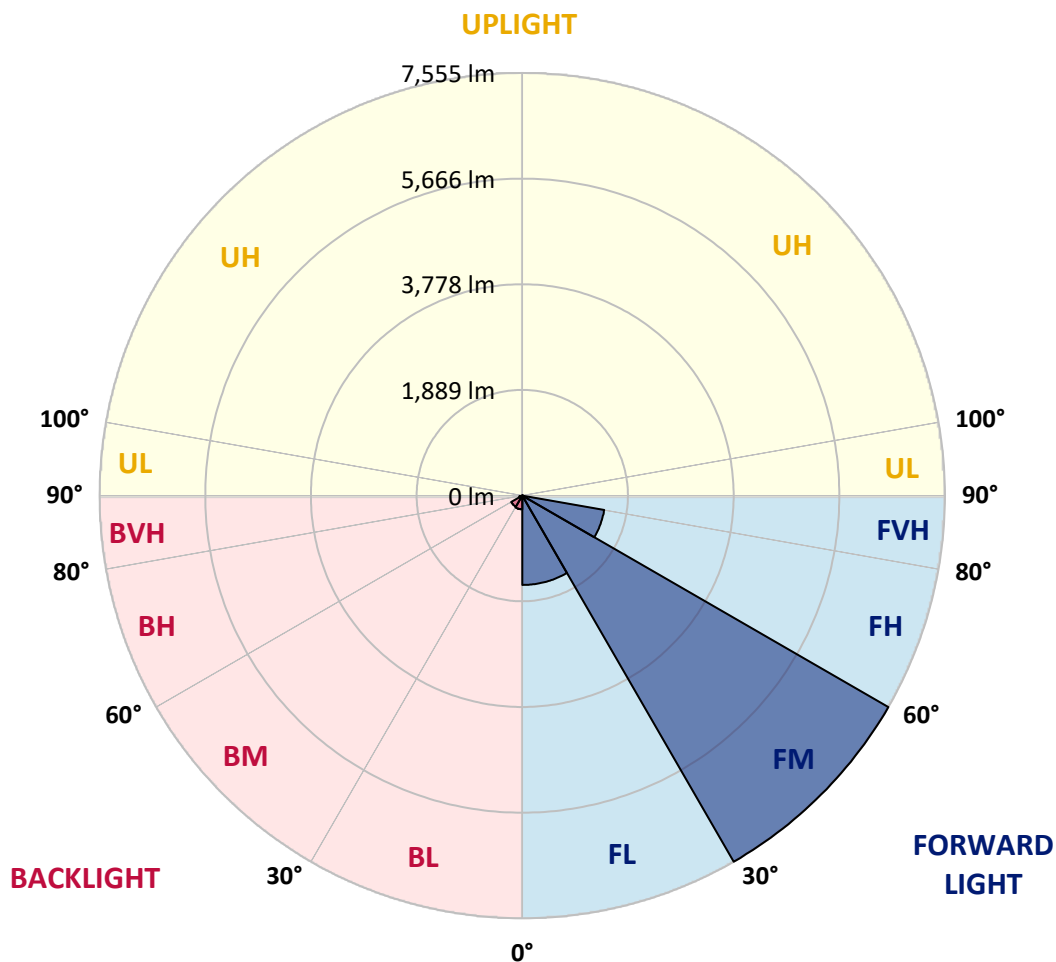
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.7	14.3			
FM (30°-60°)	7555.2	67.5			
FH (60°-80°)	1486.6	13.3			G1/1800
FVH (80°-90°)	17.6	0.2			G1/100
BL (0°-30°)	244.6	2.2	B1/500		
BM (30°-60°)	229.2	2.0	B1/1000		
BH (60°-80°)	53.0	0.5	B0/110		G0/110
BVH (80°-90°)	2.1	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°	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0
2.5°	3158.1	3136.2	3106.0	3082.6	3027.6	2948.3	2864.6	2864.6	2783.8	2671.4	2556.7
5°	3642.6	3628.2	3598.8	3538.4	3476.6	3365.6	3197.4	3167.9	3023.8	2820.0	2605.7
7.5°	3839.5	3846.3	3847.8	3832.0	3802.6	3693.1	3526.4	3506.0	3275.8	3002.7	2669.9
10°	3650.9	3684.1	3716.5	3782.2	3875.0	3901.4	3807.1	3786.0	3559.6	3187.5	2739.3
12.5°	3370.2	3388.3	3406.4	3509.8	3696.2	3909.7	4008.6	4007.8	3816.1	3371.7	2827.6
15°	3239.6	3255.5	3257.0	3303.0	3464.5	3775.4	4094.6	4105.9	4066.7	3598.8	2922.7
17.5°	3266.8	3279.6	3269.0	3280.4	3364.9	3627.5	4084.8	4122.5	4269.7	3816.9	3008.7
20°	3444.1	3469.0	3428.3	3396.6	3422.2	3588.2	4051.6	4104.4	4413.1	4029.7	3087.2
22.5°	3762.6	3776.2	3724.8	3638.1	3592.8	3670.5	4042.5	4094.6	4535.3	4204.0	3132.5
25°	4116.5	4112.0	4055.4	3958.0	3862.9	3836.5	4102.2	4148.9	4636.4	4361.0	3146.0
27.5°	4470.4	4484.0	4388.9	4268.2	4154.2	4085.5	4235.7	4270.4	4750.4	4539.8	3162.6
30°	4881.7	4859.8	4766.2	4628.1	4497.6	4401.7	4450.8	4460.6	4907.3	4776.8	3206.4
32.5°	5416.7	5356.3	5251.4	5010.0	4916.4	4754.1	4766.2	4778.3	5098.3	5011.5	3259.2
35°	6142.7	6139.6	5934.4	5609.1	5381.2	5179.8	5126.9	5136.7	5387.3	5360.1	3376.2
37.5°	7016.5	7028.6	6794.7	6467.2	6047.6	5727.6	5618.9	5620.5	5826.5	5841.6	3554.3
40°	7728.1	7759.8	7620.2	7399.1	6984.8	6484.5	6301.9	6285.3	6443.8	6424.9	3808.6
42.5°	8034.5	8063.9	8116.0	8193.0	7965.1	7552.3	7121.4	7144.1	7192.3	7060.3	4093.8
45°	7884.3	7931.1	8135.6	8611.0	8825.4	8686.5	8172.6	8093.4	7888.9	7750.8	4380.6
47.5°	7258.8	7372.7	7714.5	8506.2	9256.3	9725.6	9358.9	9254.0	8586.1	8254.9	4563.2
50°	6230.2	6237.0	6713.2	7725.1	9032.9	10381.4	10570.1	10491.6	9235.9	8537.8	4655.3
52.5°	4516.4	4665.1	5101.3	6273.2	8065.4	10281.8	11342.0	11309.6	9906.0	8682.7	4788.1
54°	3433.6	3462.2	3850.1	5013.0	6953.9	9734.7	11389.6	11397.1	10238.8	8770.3	4866.6
55°	2814.8	2746.1	3153.6	4270.4	6195.5	9251.0	11234.1	11270.3	10388.2	8815.5	4924.7
57.5°	1334.2	1334.9	1646.6	2252.6	3880.3	7183.3	10284.1	10412.3	10404.8	8893.3	5103.5
60°	675.4	679.9	748.6	1039.9	1916.8	4775.3	8503.1	8808.8	9604.1	8904.6	5162.4
62.5°	472.4	467.1	455.8	500.3	806.7	2426.9	6330.6	6596.2	8159.8	8473.7	4975.3
65°	404.5	393.2	361.5	354.7	407.5	966.7	3942.9	4376.1	6230.2	7337.2	4442.5
67.5°	345.6	341.1	312.4	295.1	288.3	421.1	2034.5	2262.4	4258.4	5274.1	3364.9
70°	293.5	291.3	273.9	252.0	233.2	252.0	754.6	935.0	2373.3	2839.7	1587.7
72.5°	238.5	240.7	243.7	215.8	196.2	178.8	322.2	375.0	993.1	1015.0	555.4
75°	209.0	206.8	206.8	187.9	163.8	132.8	177.3	190.9	304.1	282.2	129.0
77.5°	147.2	141.9	166.0	154.7	136.6	94.3	101.1	107.2	126.0	107.9	60.4
80°	101.9	101.9	106.4	138.9	123.0	68.7	61.9	66.4	74.7	64.1	34.7
82.5°	57.4	58.9	69.4	74.0	71.7	46.0	40.7	41.5	49.8	43.8	21.9
85°	6.8	11.3	40.0	39.2	29.4	20.4	22.6	23.4	30.9	27.2	12.8
87.5°	0.8	1.5	8.3	10.6	7.5	8.3	8.3	8.3	10.6	12.1	9.1
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°	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0	2485.0
2.5°	2494.8	2437.4	2300.9	2142.4	2041.3	1876.8	1737.9	1637.5	1612.6	1564.3	1578.7
5°	2491.8	2372.5	2094.1	1799.8	1485.9	1251.9	1077.6	940.3	879.9	839.9	812.0
7.5°	2493.3	2306.9	1860.2	1391.5	1016.5	787.1	625.6	541.8	486.0	462.6	465.6
10°	2497.8	2232.9	1588.5	1030.8	686.0	508.6	409.8	369.8	350.9	347.9	347.1
12.5°	2508.4	2152.2	1328.9	765.2	479.9	369.8	332.0	318.5	312.4	312.4	310.2
15°	2519.7	2063.1	1113.1	569.0	369.8	317.7	300.3	293.5	289.8	289.8	289.0
17.5°	2519.7	1960.5	911.6	441.5	318.5	292.0	278.5	269.4	266.4	266.4	265.6
20°	2503.9	1841.3	732.7	355.4	289.0	267.9	254.3	244.5	240.7	239.2	238.5
22.5°	2448.8	1682.1	583.3	305.6	264.9	246.8	229.4	218.1	215.1	213.6	214.3
25°	2350.7	1502.5	461.8	268.6	243.0	221.1	206.0	197.7	194.7	194.7	195.4
27.5°	2249.5	1314.6	366.0	240.7	216.6	197.0	184.9	179.6	178.8	181.1	181.9
30°	2156.0	1125.9	296.6	218.1	193.2	176.6	168.3	166.8	166.8	167.5	168.3
32.5°	2051.8	960.6	248.3	198.5	174.3	160.0	155.5	155.5	157.0	157.0	158.5
35°	1986.2	818.8	218.1	179.6	160.0	147.9	144.9	145.6	147.9	150.9	152.4
37.5°	1950.7	705.6	198.5	164.5	146.4	138.1	135.1	136.6	141.9	147.2	147.9
40°	1953.7	620.3	182.6	151.7	135.8	126.8	124.5	129.0	134.3	139.6	140.4
42.5°	1986.9	556.9	167.5	136.6	126.8	113.9	113.2	117.7	120.0	125.3	126.0
45°	2026.2	510.9	151.7	120.7	110.2	98.9	99.6	103.4	106.4	114.7	116.2
47.5°	2038.2	479.2	133.6	102.6	90.6	86.8	87.5	89.8	95.8	103.4	104.1
50°	2051.8	459.6	116.2	86.8	77.0	76.2	77.0	78.5	82.3	85.3	84.5
52.5°	2109.9	458.8	101.9	75.5	65.7	67.2	67.9	67.2	64.1	59.6	58.1
54°	2164.3	461.1	95.1	70.2	60.4	62.6	61.9	58.1	50.6	46.0	43.8
55°	2208.0	463.3	91.3	66.4	57.4	58.1	58.9	51.3	41.5	37.0	35.5
57.5°	2294.1	458.1	82.3	58.1	50.6	47.5	46.8	34.0	22.6	19.6	18.1
60°	2251.1	413.5	74.7	49.8	43.0	38.5	31.7	18.9	11.3	8.3	8.3
62.5°	2082.0	350.9	66.4	40.7	35.5	29.4	16.6	10.6	5.3	3.0	2.3
65°	1862.4	295.1	59.6	32.4	27.9	18.9	9.1	6.8	2.3	0.0	0.0
67.5°	1384.7	218.8	50.6	25.7	21.1	12.1	6.0	3.8	0.8	0.0	0.0
70°	641.4	133.6	43.0	19.6	15.1	9.1	4.5	2.3	0.0	0.0	0.0
72.5°	184.1	83.8	35.5	14.3	10.6	7.5	3.8	1.5	0.8	0.0	0.0
75°	64.1	67.2	26.4	10.6	8.3	5.3	3.0	1.5	0.8	0.0	0.0
77.5°	38.5	54.3	16.6	9.1	6.8	4.5	3.0	1.5	0.8	0.8	0.0
80°	21.9	36.2	10.6	7.5	6.0	3.8	2.3	1.5	0.8	0.8	0.0
82.5°	12.1	17.4	8.3	6.8	5.3	3.8	2.3	1.5	0.8	0.8	0.8
85°	9.8	9.1	6.8	6.0	4.5	3.0	2.3	0.8	0.0	0.0	0.0
87.5°	7.5	6.0	6.0	6.0	4.5	3.0	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)