

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: P452049

Luminaire Tested: **GALN-SA3A-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452049
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-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 9354 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

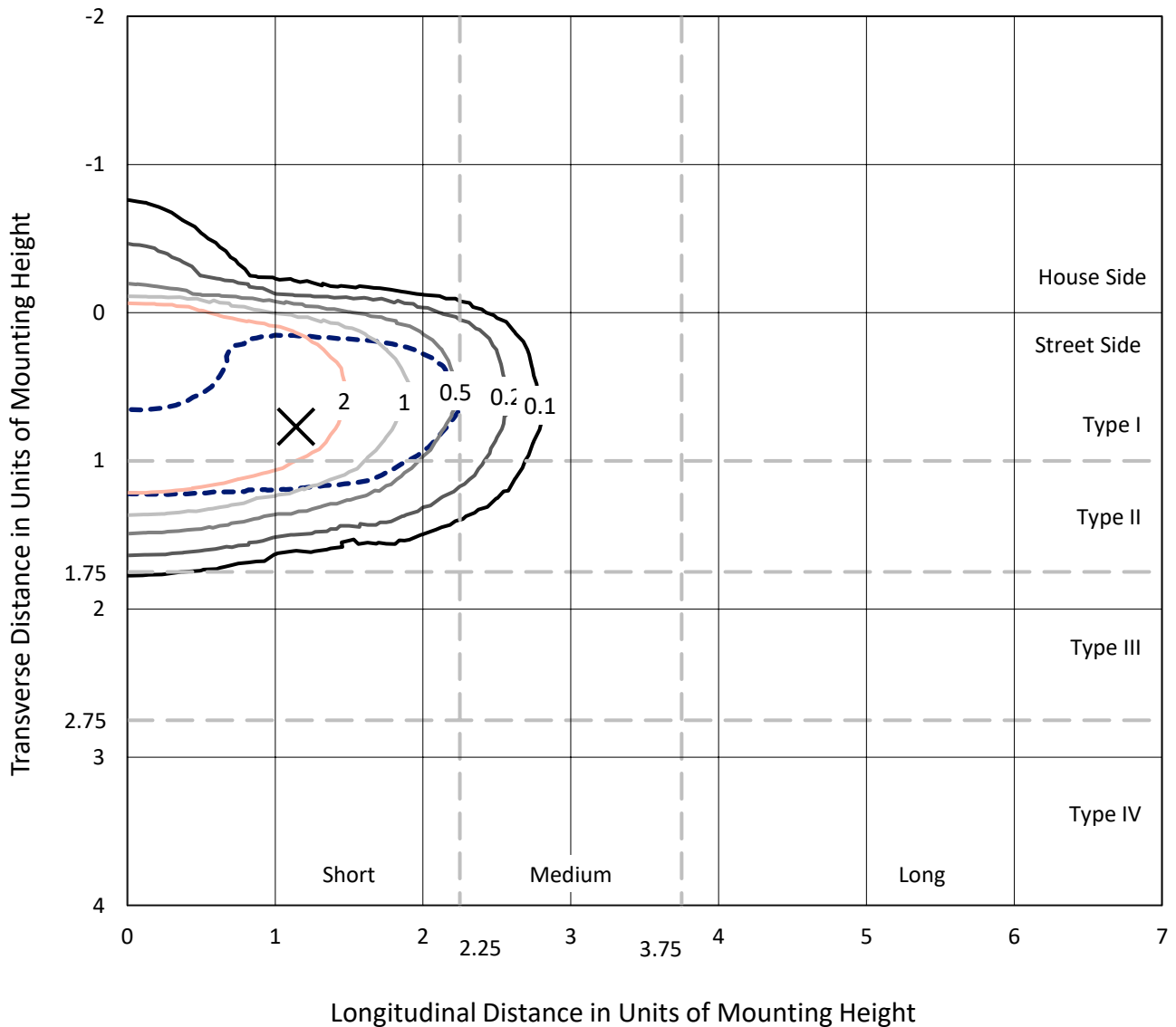
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

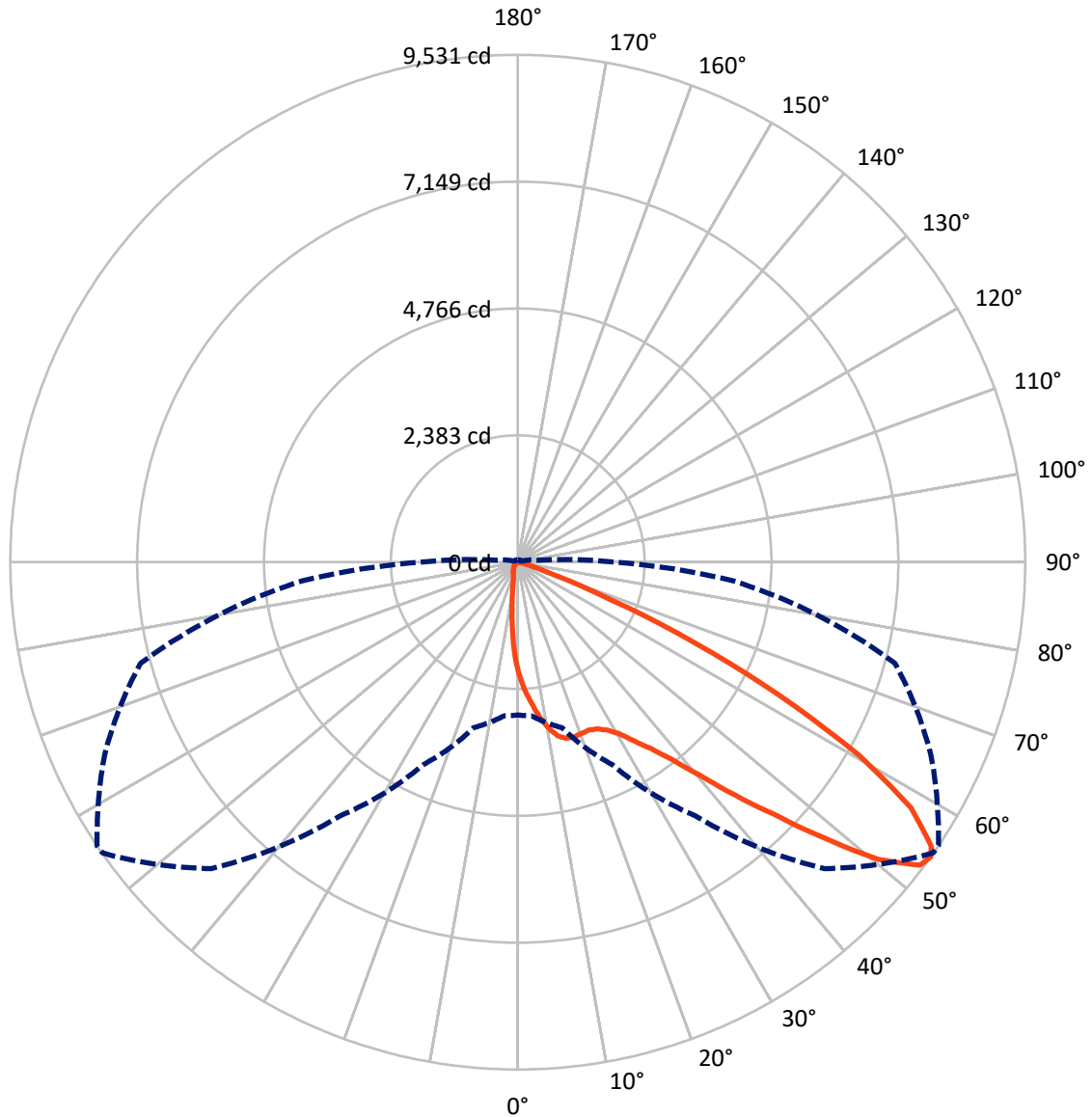
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	442.3	0.0	442.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8911.7	0.0	8911.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	9354.0	0.0	9354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	2.0
10°-20°	496.4	5.3
20°-30°	859.8	9.2
30°-40°	1484.1	15.9
40°-50°	2526.1	27.0
50°-60°	2499.9	26.7
60°-70°	1141.0	12.2
70°-80°	146.5	1.6
80°-90°	16.5	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°	9354.0	100.0
0°-180°	9354.0	100.0



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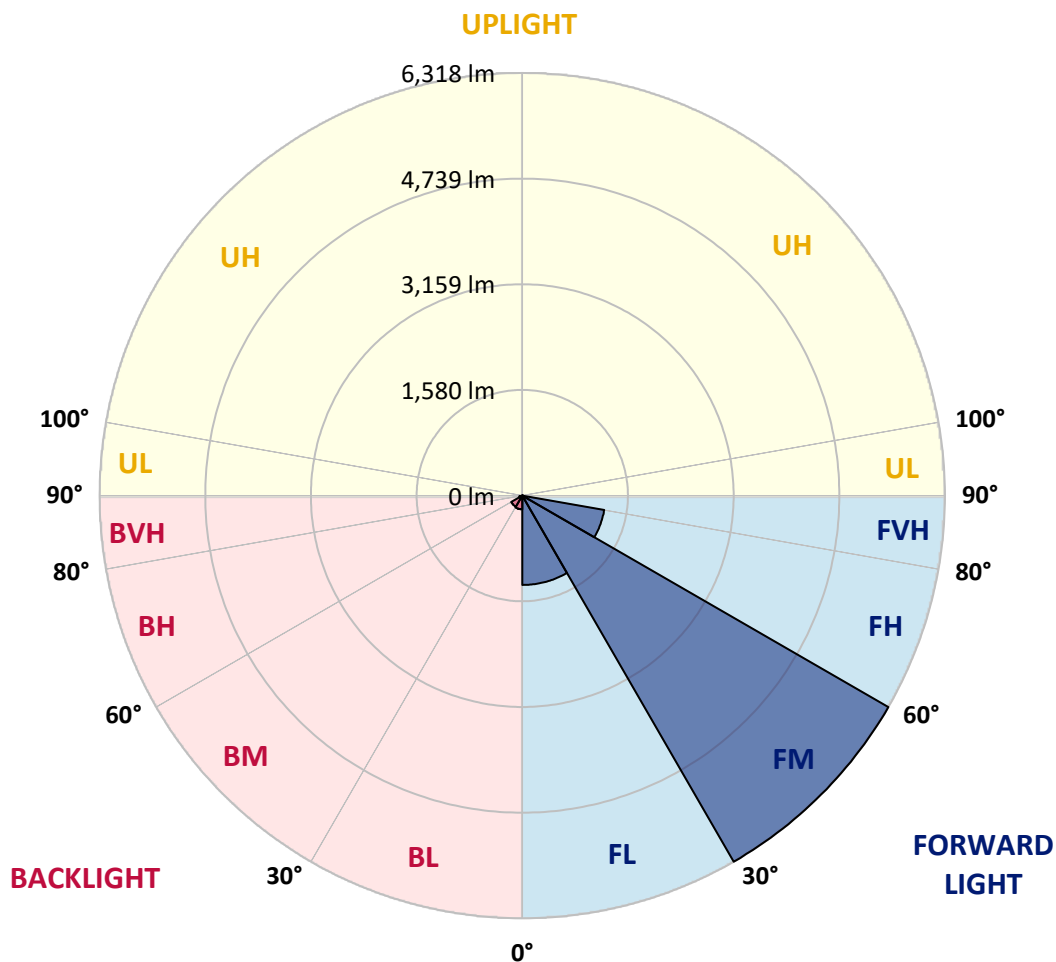
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.3	14.3			
FM (30°-60°)	6318.4	67.5			
FH (60°-80°)	1243.2	13.3			G1/1800
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	204.6	2.2	B1/500		
BM (30°-60°)	191.7	2.0	B0/220		
BH (60°-80°)	44.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.8	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°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2641.1	2622.8	2597.6	2578.0	2531.9	2465.7	2395.6	2395.6	2328.1	2234.1	2138.1
5°	3046.3	3034.3	3009.7	2959.2	2907.4	2814.7	2673.9	2649.3	2528.8	2358.4	2179.2
7.5°	3211.0	3216.7	3217.9	3204.7	3180.1	3088.6	2949.1	2932.1	2739.6	2511.1	2232.8
10°	3053.2	3081.0	3108.1	3163.0	3240.7	3262.8	3183.9	3166.2	2976.9	2665.7	2290.9
12.5°	2818.5	2833.6	2848.8	2935.2	3091.1	3269.7	3352.4	3351.7	3191.4	2819.7	2364.7
15°	2709.3	2722.5	2723.8	2762.3	2897.3	3157.4	3424.3	3433.8	3401.0	3009.7	2444.2
17.5°	2732.0	2742.7	2733.9	2743.4	2814.0	3033.7	3416.1	3447.7	3570.7	3192.1	2516.2
20°	2880.3	2901.1	2867.1	2840.6	2862.0	3000.8	3388.3	3432.5	3690.6	3370.0	2581.8
22.5°	3146.6	3158.0	3115.1	3042.5	3004.6	3069.6	3380.8	3424.3	3792.9	3515.8	2619.7
25°	3442.6	3438.8	3391.5	3310.1	3230.6	3208.5	3430.6	3469.8	3877.4	3647.1	2631.0
27.5°	3738.6	3750.0	3670.4	3569.5	3474.2	3416.7	3542.3	3571.4	3972.7	3796.7	2644.9
30°	4082.5	4064.2	3986.0	3870.5	3761.3	3681.2	3722.2	3730.4	4104.0	3994.8	2681.5
32.5°	4530.0	4479.5	4391.8	4189.8	4111.6	3975.9	3986.0	3996.1	4263.7	4191.1	2725.7
35°	5137.1	5134.6	4962.9	4690.9	4500.3	4331.8	4287.6	4295.9	4505.4	4482.7	2823.5
37.5°	5867.9	5878.0	5682.4	5408.5	5057.6	4790.0	4699.1	4700.4	4872.7	4885.3	2972.4
40°	6463.0	6489.5	6372.8	6187.9	5841.4	5423.0	5270.3	5256.4	5388.9	5373.1	3185.1
42.5°	6719.2	6743.9	6787.4	6851.8	6661.2	6316.0	5955.6	5974.6	6014.9	5904.5	3423.7
45°	6593.7	6632.8	6803.8	7201.4	7380.6	7264.5	6834.7	6768.5	6597.4	6482.0	3663.5
47.5°	6070.5	6165.8	6451.7	7113.7	7741.0	8133.5	7826.8	7739.1	7180.6	6903.5	3816.2
50°	5210.3	5216.0	5614.2	6460.5	7554.2	8681.9	8839.7	8774.1	7723.9	7140.2	3893.2
52.5°	3777.1	3901.4	4266.2	5246.3	6745.1	8598.6	9485.3	9458.2	8284.4	7261.4	4004.3
54°	2871.5	2895.5	3219.8	4192.4	5815.5	8141.1	9525.1	9531.4	8562.7	7334.6	4069.9
55°	2354.0	2296.5	2637.3	3571.4	5181.3	7736.6	9395.1	9425.4	8687.6	7372.4	4118.5
57.5°	1115.8	1116.4	1377.0	1883.8	3245.1	6007.4	8600.5	8707.8	8701.5	7437.4	4268.1
60°	564.8	568.6	626.0	869.6	1603.0	3993.6	7111.2	7366.8	8031.9	7446.9	4317.3
62.5°	395.1	390.6	381.2	418.4	674.6	2029.6	5294.2	5516.4	6824.0	7086.5	4160.8
65°	338.3	328.8	302.3	296.6	340.8	808.4	3297.5	3659.7	5210.3	6136.1	3715.2
67.5°	289.0	285.3	261.3	246.8	241.1	352.2	1701.4	1892.0	3561.3	4410.7	2814.0
70°	245.5	243.6	229.1	210.8	195.0	210.8	631.1	781.9	1984.8	2374.8	1327.8
72.5°	199.4	201.3	203.8	180.5	164.1	149.6	269.5	313.7	830.5	848.8	464.5
75°	174.8	172.9	172.9	157.1	136.9	111.1	148.3	159.7	254.3	236.0	107.9
77.5°	123.1	118.6	138.8	129.4	114.2	78.9	84.6	89.6	105.4	90.2	50.5
80°	85.2	85.2	89.0	116.1	102.9	57.4	51.7	55.5	62.5	53.6	29.0
82.5°	48.0	49.2	58.1	61.8	60.0	38.5	34.1	34.7	41.7	36.6	18.3
85°	5.7	9.5	33.4	32.8	24.6	17.0	18.9	19.6	25.9	22.7	10.7
87.5°	0.6	1.3	6.9	8.8	6.3	6.9	6.9	6.9	8.8	10.1	7.6
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°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2086.4	2038.4	1924.2	1791.7	1707.1	1569.5	1453.4	1369.5	1348.6	1308.3	1320.2
5°	2083.9	1984.2	1751.3	1505.2	1242.6	1047.0	901.2	786.3	735.9	702.4	679.1
7.5°	2085.1	1929.3	1555.6	1163.7	850.1	658.2	523.2	453.1	406.4	386.9	389.4
10°	2088.9	1867.4	1328.5	862.1	573.7	425.4	342.7	309.2	293.5	290.9	290.3
12.5°	2097.8	1799.9	1111.4	639.9	401.4	309.2	277.7	266.3	261.3	261.3	259.4
15°	2107.2	1725.4	930.9	475.8	309.2	265.7	251.2	245.5	242.3	242.3	241.7
17.5°	2107.2	1639.6	762.4	369.2	266.3	244.2	232.9	225.3	222.8	222.8	222.1
20°	2094.0	1539.9	612.8	297.2	241.7	224.0	212.7	204.5	201.3	200.1	199.4
22.5°	2047.9	1406.7	487.8	255.6	221.5	206.4	191.9	182.4	179.9	178.6	179.2
25°	1965.9	1256.5	386.2	224.7	203.2	184.9	172.3	165.3	162.8	162.8	163.5
27.5°	1881.3	1099.4	306.1	201.3	181.1	164.7	154.6	150.2	149.6	151.5	152.1
30°	1803.0	941.6	248.0	182.4	161.6	147.7	140.7	139.5	139.5	140.1	140.7
32.5°	1715.9	803.4	207.6	166.0	145.8	133.8	130.0	130.0	131.3	131.3	132.5
35°	1661.0	684.7	182.4	150.2	133.8	123.7	121.2	121.8	123.7	126.2	127.5
37.5°	1631.4	590.1	166.0	137.6	122.4	115.5	113.0	114.2	118.6	123.1	123.7
40°	1633.9	518.8	152.7	126.8	113.6	106.0	104.1	107.9	112.3	116.8	117.4
42.5°	1661.7	465.7	140.1	114.2	106.0	95.3	94.7	98.5	100.3	104.8	105.4
45°	1694.5	427.3	126.8	101.0	92.1	82.7	83.3	86.5	89.0	95.9	97.2
47.5°	1704.6	400.7	111.7	85.8	75.7	72.6	73.2	75.1	80.1	86.5	87.1
50°	1715.9	384.3	97.2	72.6	64.4	63.7	64.4	65.6	68.8	71.3	70.7
52.5°	1764.5	383.7	85.2	63.1	54.9	56.2	56.8	56.2	53.6	49.9	48.6
54°	1810.0	385.6	79.5	58.7	50.5	52.4	51.7	48.6	42.3	38.5	36.6
55°	1846.6	387.5	76.4	55.5	48.0	48.6	49.2	42.9	34.7	30.9	29.7
57.5°	1918.5	383.1	68.8	48.6	42.3	39.8	39.1	28.4	18.9	16.4	15.1
60°	1882.6	345.8	62.5	41.7	36.0	32.2	26.5	15.8	9.5	6.9	6.9
62.5°	1741.2	293.5	55.5	34.1	29.7	24.6	13.9	8.8	4.4	2.5	1.9
65°	1557.5	246.8	49.9	27.1	23.4	15.8	7.6	5.7	1.9	0.0	0.0
67.5°	1158.1	183.0	42.3	21.5	17.7	10.1	5.0	3.2	0.6	0.0	0.0
70°	536.4	111.7	36.0	16.4	12.6	7.6	3.8	1.9	0.0	0.0	0.0
72.5°	154.0	70.1	29.7	12.0	8.8	6.3	3.2	1.3	0.6	0.0	0.0
75°	53.6	56.2	22.1	8.8	6.9	4.4	2.5	1.3	0.6	0.0	0.0
77.5°	32.2	45.4	13.9	7.6	5.7	3.8	2.5	1.3	0.6	0.6	0.0
80°	18.3	30.3	8.8	6.3	5.0	3.2	1.9	1.3	0.6	0.6	0.0
82.5°	10.1	14.5	6.9	5.7	4.4	3.2	1.9	1.3	0.6	0.6	0.6
85°	8.2	7.6	5.7	5.0	3.8	2.5	1.9	0.6	0.0	0.0	0.0
87.5°	6.3	5.0	5.0	5.0	3.8	2.5	1.9	0.6	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)