

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: P947709

Luminaire Tested: **GALN-SB3A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10644 lumens
Efficiency: N/A
Efficacy: 125.7 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): 84.7
Input Voltage (V): NR
Input Current (Ain): 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



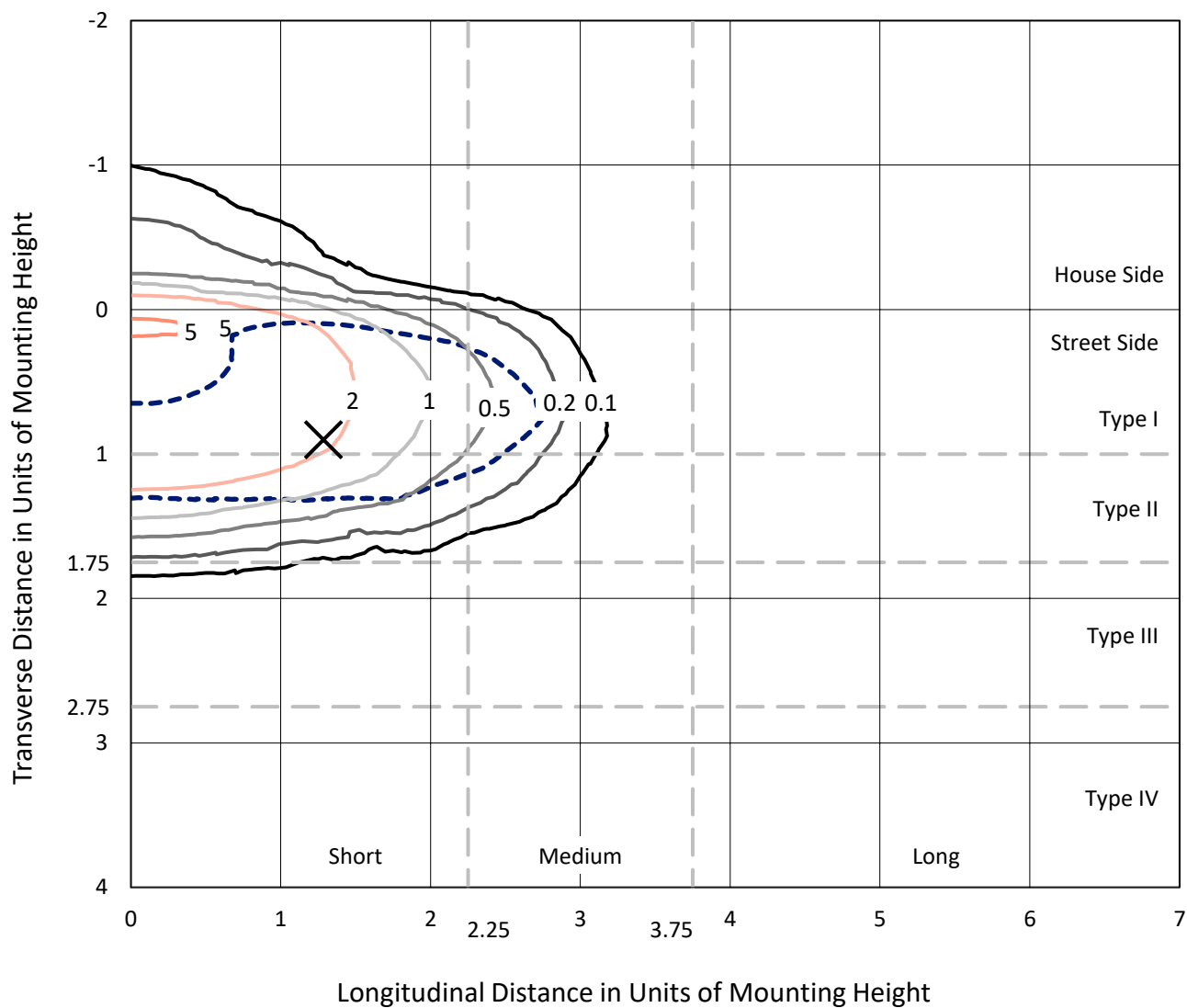
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

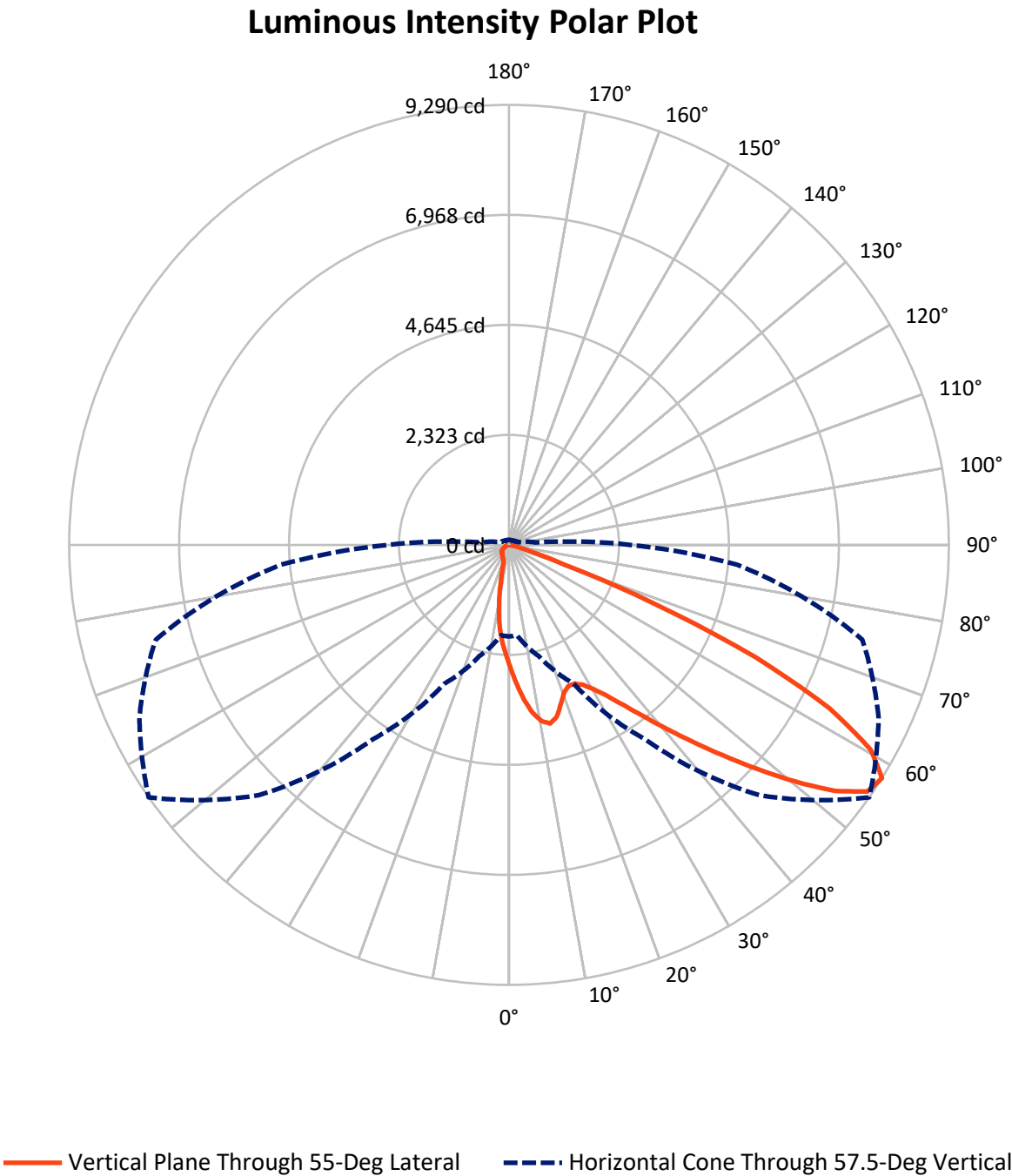
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.3	0.0	831.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	9812.8	0.0	9812.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	10644.0	0.0	10644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.7	2.2
10°-20°	576.5	5.4
20°-30°	922.3	8.7
30°-40°	1561.1	14.7
40°-50°	2563.0	24.1
50°-60°	2816.9	26.5
60°-70°	1615.8	15.2
70°-80°	330.2	3.1
80°-90°	19.5	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°	10644.0	100.0
0°-180°	10644.0	100.0

Coefficient of Utilization



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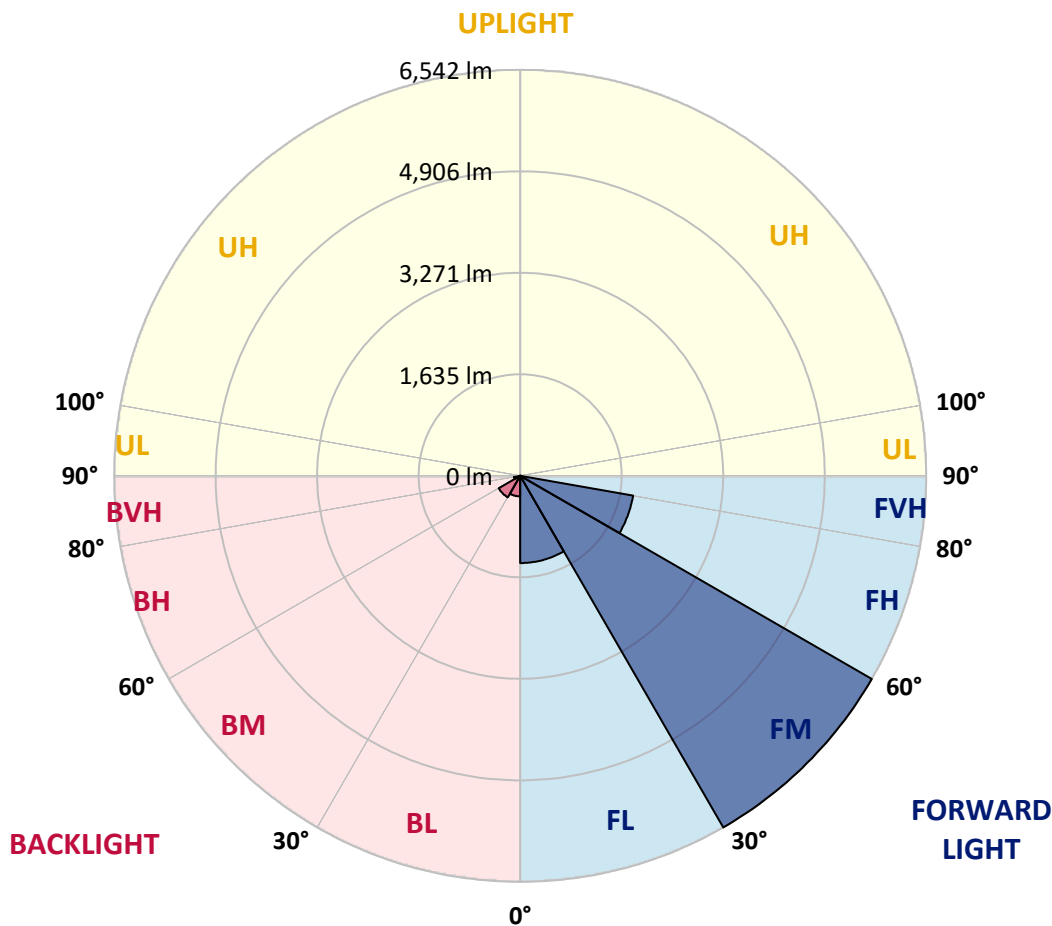
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1405.6	13.2			
FM	(30°-60°)	6541.9	61.5			
FH	(60°-80°)	1847.1	17.4			G2/5000
FVH	(80°-90°)	18.2	0.2			G1/100
BL	(0°-30°)	331.9	3.1	B1/500		
BM	(30°-60°)	399.2	3.8	B1/1000		
BH	(60°-80°)	98.9	0.9	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	65°	75°	85°	90°
0°	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9
2.5°	3182.5	3142.5	3136.6	3128.7	3052.6	2995.5	2912.8	2822.2	2720.5	2616.8	2570.8
5°	3676.8	3645.3	3639.4	3602.6	3516.0	3418.8	3271.8	3086.1	2896.4	2673.2	2577.4
7.5°	3772.6	3766.7	3793.6	3792.3	3780.5	3703.7	3579.6	3358.4	3073.6	2742.8	2594.5
10°	3345.3	3360.4	3440.5	3510.7	3700.4	3810.7	3783.7	3601.3	3256.1	2822.2	2613.5
12.5°	2956.1	2938.4	2995.5	3074.9	3295.4	3623.6	3868.4	3804.1	3464.8	2912.1	2641.7
15°	2712.0	2704.7	2736.9	2773.7	2941.7	3272.5	3770.0	3968.8	3665.6	3018.5	2684.4
17.5°	2633.9	2627.9	2637.8	2647.0	2755.9	3011.9	3535.7	4069.9	3857.9	3139.9	2731.6
20°	2697.5	2689.6	2688.3	2681.1	2726.4	2901.0	3323.7	4077.1	4030.5	3250.2	2772.3
22.5°	2883.3	2874.1	2841.9	2813.0	2817.0	2916.1	3229.1	4004.9	4160.5	3353.2	2797.9
25°	3220.0	3204.9	3137.9	3040.8	2979.1	3021.1	3243.6	3909.8	4284.5	3433.9	2785.5
27.5°	3641.3	3621.6	3535.7	3391.3	3250.2	3199.0	3347.9	3844.1	4387.6	3495.6	2758.6
30°	4054.2	4028.6	3943.9	3831.7	3625.6	3464.1	3536.3	3873.0	4510.3	3559.9	2723.1
32.5°	4499.8	4475.5	4363.3	4224.1	4053.5	3836.3	3794.2	4014.1	4660.6	3649.9	2698.2
35°	5063.6	5025.5	4866.0	4676.4	4495.2	4275.3	4143.4	4257.6	4860.8	3787.0	2712.0
37.5°	5705.5	5654.3	5482.3	5220.5	4984.2	4738.1	4568.7	4592.3	5154.2	3970.8	2754.6
40°	6310.6	6264.0	6105.2	5858.4	5561.7	5263.1	5082.6	5030.1	5559.1	4194.6	2829.4
42.5°	6673.6	6631.6	6564.6	6460.3	6210.2	5905.7	5677.9	5564.4	6038.2	4462.4	2920.7
45°	6693.9	6657.2	6747.1	6868.5	6819.3	6616.5	6338.8	6130.8	6519.3	4713.8	3015.2
47.5°	6368.4	6343.4	6616.5	7040.5	7251.8	7337.1	7081.2	6649.9	6916.4	4894.3	3053.9
50°	5481.0	5471.8	6033.7	6812.1	7416.5	7968.5	7864.2	7133.0	7224.2	4987.5	3017.2
52.5°	4752.5	4719.0	5046.5	6080.9	7177.0	8300.6	8629.4	7606.9	7439.5	5005.2	2931.2
55°	3604.6	3575.0	3985.9	4857.5	6404.5	8182.5	9189.3	8095.8	7593.8	4959.9	2776.9
57.5°	1933.6	1915.2	2434.3	3233.1	5006.5	7473.6	9290.4	8613.0	7723.7	4839.8	2561.0
60°	752.8	749.5	943.8	1568.6	3042.8	6080.3	8780.4	8923.5	7805.1	4692.1	2380.5
62.5°	455.5	465.3	496.8	704.2	1344.2	3777.2	7604.9	8570.4	7859.6	4556.9	2231.5
65°	376.7	377.4	381.3	483.7	643.9	1580.4	5725.2	7408.7	7725.0	4316.0	2020.2
67.5°	322.9	328.8	343.9	384.0	454.2	693.1	3296.1	5739.0	6906.6	3755.5	1690.7
70°	254.7	262.5	281.6	315.7	350.5	433.8	1218.2	3818.5	5276.2	2830.8	1278.5
72.5°	214.6	214.0	223.8	256.6	278.3	305.2	468.6	2139.6	3066.4	1351.4	632.7
75°	166.1	172.6	185.1	214.6	227.7	221.2	254.0	781.7	1098.7	409.6	215.3
77.5°	130.0	135.2	146.4	175.2	188.4	156.9	146.4	279.6	353.1	147.0	97.1
80°	58.4	63.0	99.8	129.3	153.6	108.3	79.4	143.1	156.9	66.9	49.2
82.5°	10.5	17.7	58.4	68.3	78.8	70.2	41.3	74.2	76.8	26.9	17.1
85°	0.7	1.3	20.3	24.9	31.5	23.0	12.5	29.5	25.6	9.2	6.6
87.5°	0.0	0.0	0.0	0.7	0.7	3.3	3.9	5.3	3.9	3.3	2.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9	2564.9
2.5°	2523.6	2430.4	2339.8	2265.7	2222.3	2148.8	2100.3	2092.4	2072.0	2089.8
5°	2475.0	2308.3	2139.6	1988.7	1864.6	1704.5	1585.0	1534.5	1490.5	1505.6
7.5°	2452.1	2188.9	1926.3	1668.4	1403.2	1147.3	956.9	877.5	817.1	825.7
10°	2421.2	2064.8	1653.3	1259.5	904.4	651.7	520.5	471.9	445.0	445.6
12.5°	2397.6	1916.5	1336.3	853.9	550.7	416.1	375.4	363.6	355.7	356.4
15°	2385.8	1741.9	1023.2	569.0	393.8	352.4	342.6	337.4	332.1	331.4
17.5°	2366.1	1547.6	748.9	415.5	344.6	330.1	321.6	315.7	309.1	307.8
20°	2336.5	1327.1	547.4	351.1	322.9	311.8	299.9	292.1	284.2	282.9
22.5°	2282.1	1094.1	420.7	324.9	307.2	294.7	280.3	271.1	263.2	261.9
25°	2181.0	875.5	354.4	308.5	293.4	278.3	262.5	250.1	242.8	241.5
27.5°	2053.0	687.8	321.6	293.4	275.7	261.9	244.2	232.3	225.8	224.5
30°	1902.0	529.7	302.6	276.3	254.7	242.8	227.1	217.2	213.3	213.3
32.5°	1739.3	423.3	294.7	259.3	236.3	223.2	210.7	206.7	205.4	204.8
35°	1586.4	367.5	290.8	245.5	219.9	207.4	202.1	202.8	205.4	205.4
37.5°	1450.5	349.8	288.8	235.6	205.4	194.3	197.6	203.5	200.8	200.8
40°	1327.8	351.8	287.5	228.4	193.6	187.1	193.6	189.0	182.5	181.8
42.5°	1233.9	368.2	284.8	222.5	186.4	181.8	179.2	172.0	171.3	172.6
45°	1165.6	382.6	284.2	219.9	178.5	170.0	166.7	159.5	172.6	175.9
47.5°	1084.9	382.6	284.2	210.7	165.4	162.1	156.9	149.0	162.1	165.4
50°	980.6	358.4	273.0	200.2	154.9	152.9	143.7	133.9	131.3	133.2
52.5°	848.6	314.4	244.8	185.7	144.4	140.5	129.3	122.1	120.1	120.1
55°	698.3	263.2	206.7	164.7	133.2	126.0	118.1	114.9	112.9	111.6
57.5°	567.7	215.9	166.1	146.4	122.7	113.5	110.9	107.0	103.7	101.7
60°	466.0	170.0	137.2	130.0	112.2	103.7	103.0	97.8	89.3	87.9
62.5°	359.7	124.7	115.5	112.9	101.7	94.5	93.2	82.7	69.6	66.9
65°	254.0	97.1	93.2	99.1	90.6	84.0	80.7	65.0	51.2	49.2
67.5°	178.5	81.4	73.5	86.6	78.8	70.2	68.3	55.1	42.7	41.3
70°	127.3	66.3	60.4	74.2	63.0	61.7	57.8	45.9	34.8	33.5
72.5°	89.9	50.5	46.6	64.3	43.3	53.2	47.3	35.4	26.3	24.9
75°	66.3	36.1	32.8	37.4	31.5	40.0	33.5	23.6	16.4	15.8
77.5°	48.6	23.0	19.7	18.4	18.4	24.9	18.4	9.8	7.2	6.6
80°	34.1	10.5	9.2	7.9	7.2	5.9	2.6	1.3	0.7	0.7
82.5°	20.3	4.6	4.6	3.3	2.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)