

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: P949116

Luminaire Tested: **GALN-SB4A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949116
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-SB4A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 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: 12663 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

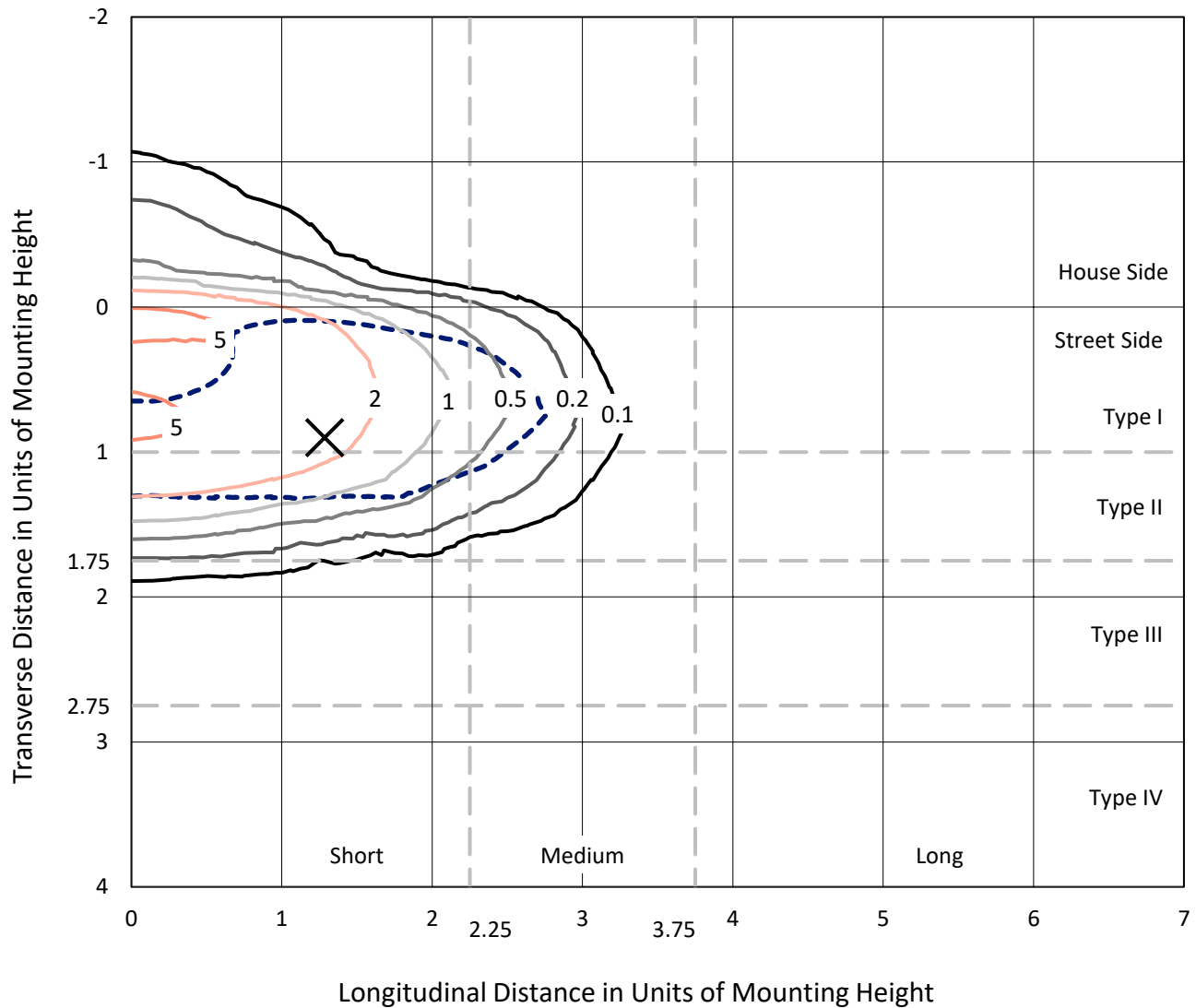
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

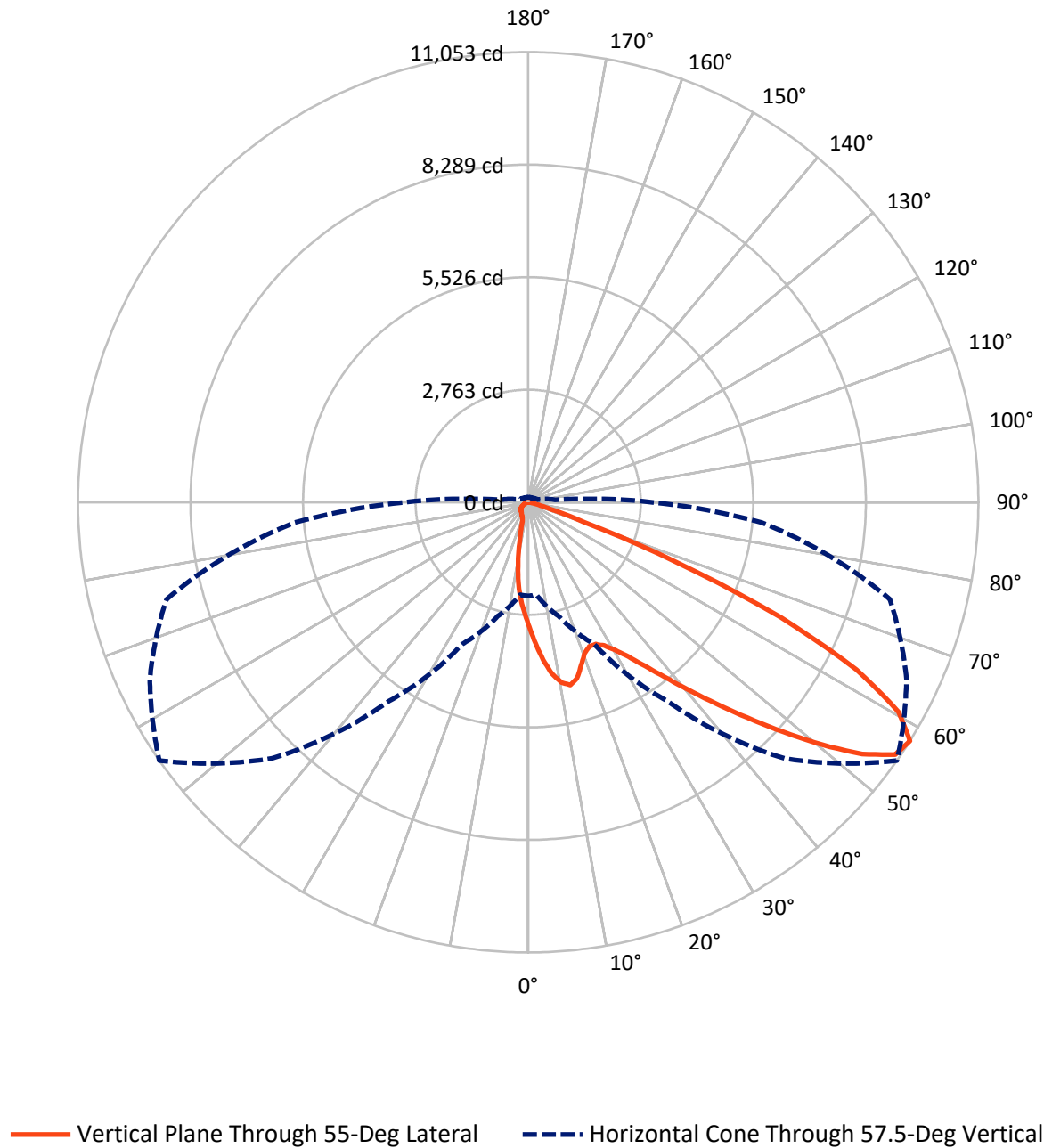
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.9	0.0	988.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	11674.1	0.0	11674.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	12663.0	0.0	12663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	2.2
10°-20°	685.8	5.4
20°-30°	1097.3	8.7
30°-40°	1857.2	14.7
40°-50°	3049.2	24.1
50°-60°	3351.3	26.5
60°-70°	1922.3	15.2
70°-80°	392.8	3.1
80°-90°	23.2	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°	12663.0	100.0
0°-180°	12663.0	100.0

Coefficient of Utilization



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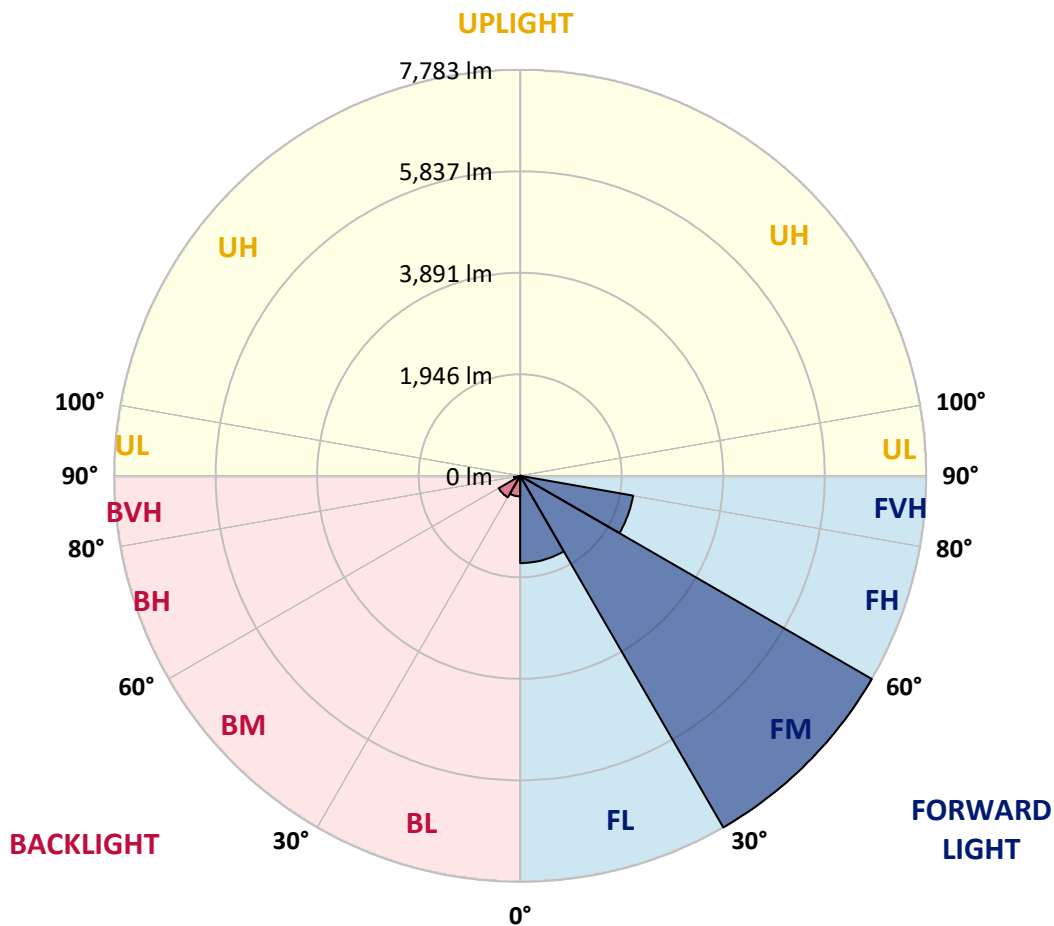
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1672.2	13.2			
FM	(30°-60°)	7782.8	61.5			
FH	(60°-80°)	2197.5	17.4			G2/5000
FVH	(80°-90°)	21.6	0.2			G1/100
BL	(0°-30°)	394.8	3.1	B1/500		
BM	(30°-60°)	474.9	3.8	B1/1000		
BH	(60°-80°)	117.6	0.9	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5
2.5°	3786.2	3738.6	3731.6	3722.2	3631.6	3563.7	3465.3	3357.6	3236.5	3113.2	3058.5
5°	4374.2	4336.7	4329.7	4286.0	4182.9	4067.3	3892.4	3671.4	3445.8	3180.3	3066.3
7.5°	4488.2	4481.2	4513.2	4511.6	4497.6	4406.2	4258.6	3995.5	3656.6	3263.1	3086.6
10°	3979.9	3997.8	4093.1	4176.6	4402.3	4533.5	4501.5	4284.4	3873.7	3357.6	3109.3
12.5°	3516.8	3495.8	3563.7	3658.2	3920.5	4310.9	4602.2	4525.7	4122.0	3464.5	3142.8
15°	3226.4	3217.8	3256.0	3299.8	3499.7	3893.2	4485.1	4721.7	4360.9	3591.0	3193.6
17.5°	3133.5	3126.4	3138.1	3149.1	3278.7	3583.2	4206.3	4841.9	4589.7	3735.5	3249.8
20°	3209.2	3199.8	3198.3	3189.7	3243.6	3451.3	3954.1	4850.5	4795.1	3866.7	3298.2
22.5°	3430.2	3419.2	3381.0	3346.6	3351.3	3469.2	3841.7	4764.6	4949.7	3989.2	3328.7
25°	3830.7	3812.8	3733.1	3617.6	3544.2	3594.1	3858.8	4651.4	5097.2	4085.3	3313.8
27.5°	4332.0	4308.6	4206.3	4034.5	3866.7	3805.7	3983.0	4573.3	5219.8	4158.7	3281.8
30°	4823.2	4792.7	4692.0	4558.5	4313.3	4121.2	4207.1	4607.7	5365.8	4235.2	3239.7
32.5°	5353.3	5324.5	5190.9	5025.4	4822.4	4563.9	4514.0	4775.5	5544.7	4342.2	3210.0
35°	6024.1	5978.8	5789.0	5563.4	5347.9	5086.3	4929.4	5065.2	5782.8	4505.4	3226.4
37.5°	6787.7	6726.8	6522.2	6210.7	5929.6	5636.8	5435.3	5463.4	6131.8	4724.0	3277.1
40°	7507.6	7452.2	7263.3	6969.7	6616.7	6261.4	6046.7	5984.3	6613.6	4990.3	3366.1
42.5°	7939.4	7889.5	7809.8	7685.7	7388.2	7025.9	6754.9	6619.8	7183.6	5308.8	3474.7
45°	7963.7	7919.9	8026.9	8171.4	8112.8	7871.5	7541.2	7293.7	7756.0	5607.9	3587.1
47.5°	7576.4	7546.7	7871.5	8375.9	8627.4	8728.9	8424.3	7911.3	8228.4	5822.6	3633.2
50°	6520.7	6509.8	7178.1	8104.2	8823.3	9480.0	9355.9	8486.0	8594.6	5933.5	3589.5
52.5°	5654.0	5614.1	6003.8	7234.4	8538.3	9875.1	10266.3	9049.8	8850.7	5954.6	3487.2
55°	4288.3	4253.2	4742.0	5778.9	7619.3	9734.6	10932.4	9631.5	9034.2	5900.7	3303.7
57.5°	2300.3	2278.5	2896.1	3846.4	5956.1	8891.3	11052.6	10246.8	9188.8	5757.8	3046.8
60°	895.6	891.7	1122.8	1866.2	3619.9	7233.6	10445.9	10616.1	9285.6	5582.1	2832.1
62.5°	541.9	553.6	591.1	837.8	1599.1	4493.7	9047.4	10196.0	9350.4	5421.3	2654.8
65°	448.2	449.0	453.7	575.5	766.0	1880.2	6811.2	8814.0	9190.3	5134.7	2403.4
67.5°	384.2	391.2	409.2	456.8	540.3	824.6	3921.3	6827.5	8216.6	4467.9	2011.4
70°	303.0	312.3	335.0	375.6	417.0	516.1	1449.2	4542.8	6277.1	3367.7	1521.1
72.5°	255.3	254.5	266.3	305.3	331.1	363.1	557.5	2545.5	3648.0	1607.7	752.7
75°	197.5	205.4	220.2	255.3	270.9	263.1	302.2	930.0	1307.1	487.2	256.1
77.5°	154.6	160.9	174.1	208.5	224.1	186.6	174.1	332.6	420.1	174.9	115.6
80°	69.5	75.0	118.7	153.8	182.7	128.8	94.5	170.2	186.6	79.6	58.6
82.5°	12.5	21.1	69.5	81.2	93.7	83.5	49.2	88.2	91.4	32.0	20.3
85°	0.8	1.6	24.2	29.7	37.5	27.3	14.8	35.1	30.5	10.9	7.8
87.5°	0.0	0.0	0.0	0.8	0.8	3.9	4.7	6.2	4.7	3.9	3.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5	3051.5
2.5°	3002.3	2891.4	2783.6	2695.4	2643.9	2556.4	2498.6	2489.3	2465.1	2486.2
5°	2944.5	2746.2	2545.5	2365.9	2218.3	2027.8	1885.7	1825.6	1773.3	1791.2
7.5°	2917.2	2604.1	2291.7	1984.9	1669.4	1364.9	1138.4	1044.0	972.1	982.3
10°	2880.5	2456.5	1966.9	1498.4	1076.0	775.4	619.2	561.4	529.4	530.2
12.5°	2852.4	2280.0	1589.8	1015.9	655.1	495.0	446.6	432.6	423.2	424.0
15°	2838.3	2072.3	1217.3	677.0	468.5	419.3	407.6	401.3	395.1	394.3
17.5°	2814.9	1841.2	890.9	494.3	409.9	392.8	382.6	375.6	367.8	366.2
20°	2779.7	1578.8	651.2	417.7	384.2	370.9	356.8	347.5	338.1	336.5
22.5°	2714.9	1301.6	500.5	386.5	365.4	350.6	333.4	322.5	313.1	311.5
25°	2594.7	1041.6	421.6	367.0	349.0	331.1	312.3	297.5	288.9	287.3
27.5°	2442.4	818.3	382.6	349.0	327.9	311.5	290.5	276.4	268.6	267.0
30°	2262.8	630.1	360.0	328.7	303.0	288.9	270.2	258.5	253.8	253.8
32.5°	2069.2	503.6	350.6	308.4	281.1	265.5	250.6	246.0	244.4	243.6
35°	1887.3	437.3	345.9	292.0	261.6	246.7	240.5	241.3	244.4	244.4
37.5°	1725.6	416.2	343.6	280.3	244.4	231.1	235.0	242.1	238.9	238.9
40°	1579.6	418.5	342.0	271.7	230.3	222.5	230.3	224.9	217.1	216.3
42.5°	1468.0	438.0	338.9	264.7	221.8	216.3	213.2	204.6	203.8	205.4
45°	1386.7	455.2	338.1	261.6	212.4	202.2	198.3	189.7	205.4	209.3
47.5°	1290.7	455.2	338.1	250.6	196.8	192.9	186.6	177.2	192.9	196.8
50°	1166.6	426.3	324.8	238.2	184.3	181.9	171.0	159.3	156.2	158.5
52.5°	1009.6	374.0	291.2	221.0	171.8	167.1	153.8	145.2	142.9	142.9
55°	830.8	313.1	246.0	196.0	158.5	149.9	140.5	136.6	134.3	132.7
57.5°	675.4	256.9	197.5	174.1	146.0	135.1	132.0	127.3	123.4	121.0
60°	554.4	202.2	163.2	154.6	133.5	123.4	122.6	116.3	106.2	104.6
62.5°	427.9	148.4	137.4	134.3	121.0	112.4	110.9	98.4	82.8	79.6
65°	302.2	115.6	110.9	117.9	107.8	99.9	96.0	77.3	60.9	58.6
67.5°	212.4	96.8	87.5	103.1	93.7	83.5	81.2	65.6	50.8	49.2
70°	151.5	78.9	71.8	88.2	75.0	73.4	68.7	54.7	41.4	39.8
72.5°	107.0	60.1	55.4	76.5	51.5	63.2	56.2	42.2	31.2	29.7
75°	78.9	42.9	39.0	44.5	37.5	47.6	39.8	28.1	19.5	18.7
77.5°	57.8	27.3	23.4	21.9	21.9	29.7	21.9	11.7	8.6	7.8
80°	40.6	12.5	10.9	9.4	8.6	7.0	3.1	1.6	0.8	0.8
82.5°	24.2	5.5	5.5	3.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	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)