

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: P946617

Luminaire Tested: **GALN-SB2B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946617
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-SB2B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA 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: 7932 lumens
Efficiency: N/A
Efficacy: 107.3 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): 73.9
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

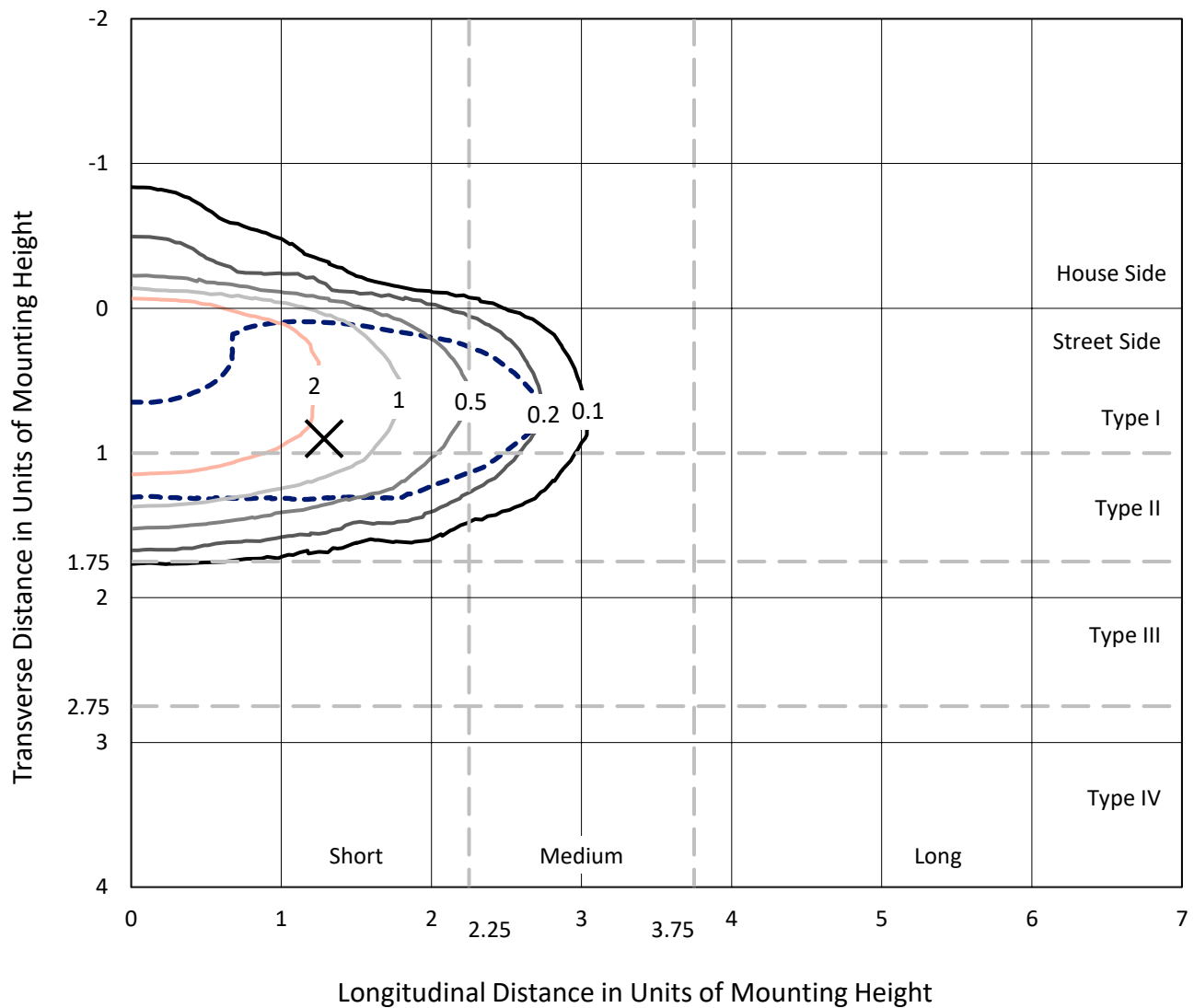


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Iso-Footcandle Lines of Horizontal Illumination

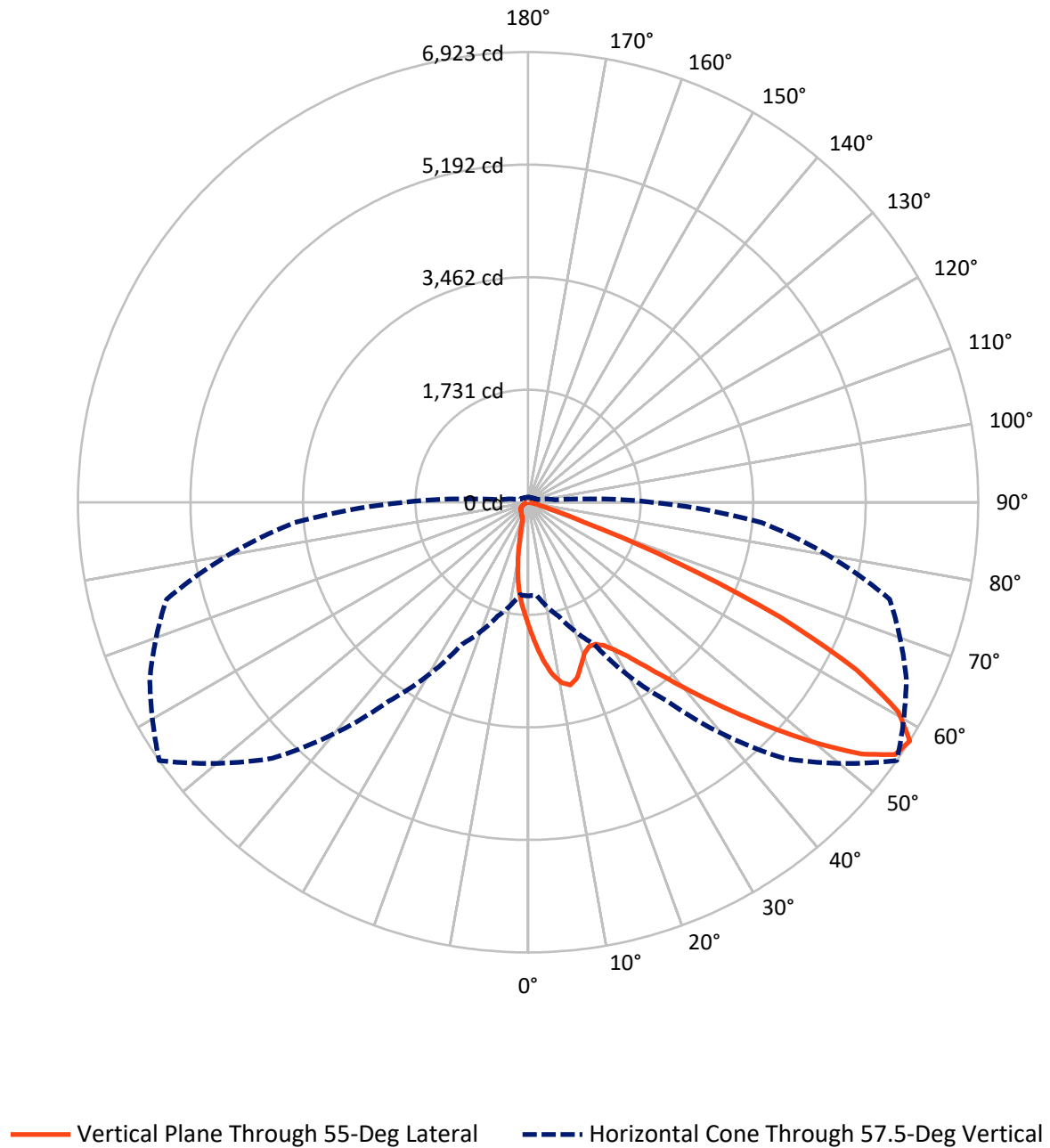
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	619.5	0.0	619.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	7312.5	0.0	7312.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	7932.0	0.0	7932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	2.2
10°-20°	429.6	5.4
20°-30°	687.3	8.7
30°-40°	1163.4	14.7
40°-50°	1910.0	24.1
50°-60°	2099.2	26.5
60°-70°	1204.1	15.2
70°-80°	246.0	3.1
80°-90°	14.5	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°	7932.0	100.0
0°-180°	7932.0	100.0

Coefficient of Utilization



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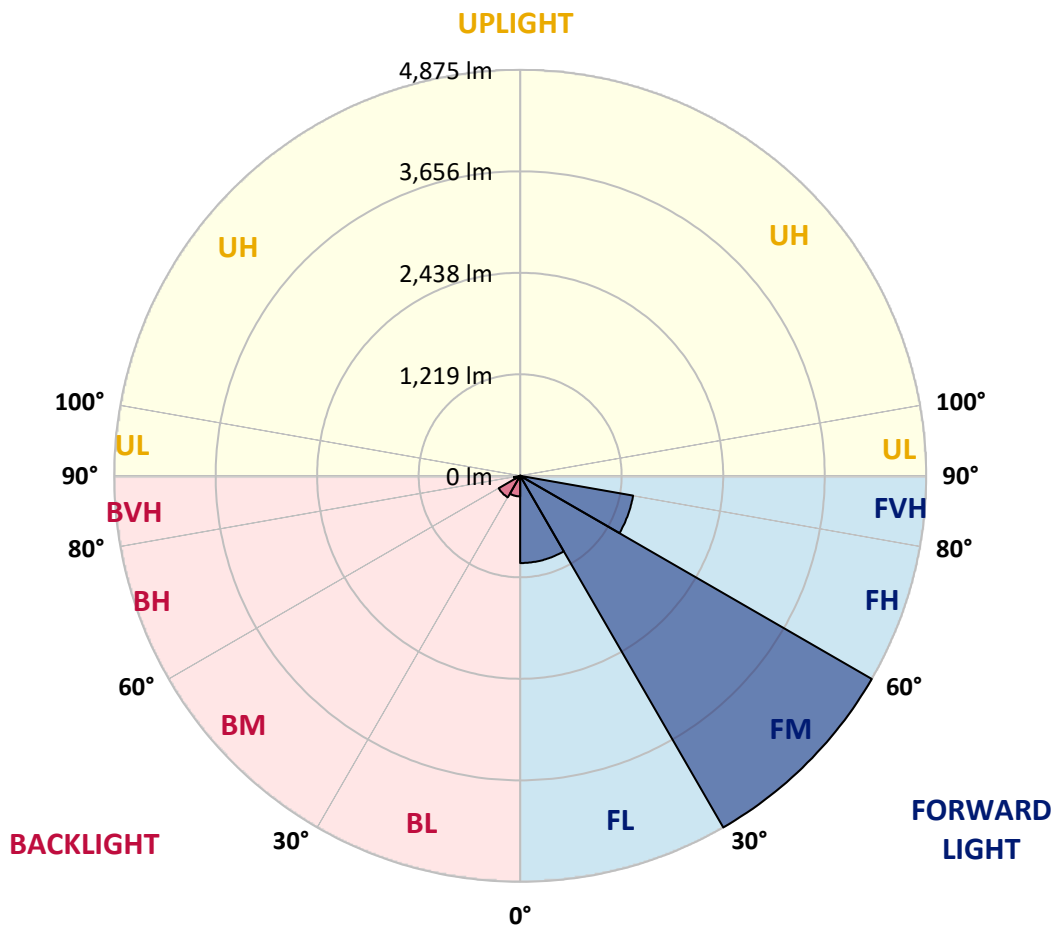
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1047.5	13.2			
FM	(30°-60°)	4875.1	61.5			
FH	(60°-80°)	1376.5	17.4			G1/1800
FVH	(80°-90°)	13.5	0.2			G1/100
BL	(0°-30°)	247.3	3.1	B1/500		
BM	(30°-60°)	297.5	3.8	B1/1000		
BH	(60°-80°)	73.7	0.9	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	65°	75°	85°	90°
0°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	2371.7	2341.8	2337.4	2331.6	2274.8	2232.3	2170.6	2103.1	2027.3	1950.1	1915.8
5°	2740.0	2716.5	2712.1	2684.7	2620.1	2547.7	2438.2	2299.8	2158.4	1992.1	1920.7
7.5°	2811.4	2807.0	2827.0	2826.0	2817.2	2760.0	2667.6	2502.7	2290.5	2044.0	1933.4
10°	2493.0	2504.2	2563.9	2616.2	2757.6	2839.7	2819.7	2683.7	2426.4	2103.1	1947.6
12.5°	2202.9	2189.7	2232.3	2291.4	2455.8	2700.3	2882.8	2834.8	2582.0	2170.2	1968.6
15°	2021.0	2015.6	2039.6	2067.0	2192.2	2438.7	2809.4	2957.6	2731.6	2249.4	2000.4
17.5°	1962.8	1958.4	1965.7	1972.6	2053.7	2244.5	2634.8	3032.9	2875.0	2339.9	2035.6
20°	2010.2	2004.3	2003.4	1998.0	2031.7	2161.8	2476.8	3038.3	3003.6	2422.0	2066.0
22.5°	2148.6	2141.8	2117.8	2096.3	2099.2	2173.1	2406.4	2984.5	3100.4	2498.8	2085.0
25°	2399.5	2388.3	2338.4	2266.0	2220.0	2251.3	2417.1	2913.6	3192.9	2559.0	2075.8
27.5°	2713.5	2698.9	2634.8	2527.2	2422.0	2383.9	2494.9	2864.7	3269.7	2605.0	2055.7
30°	3021.2	3002.1	2939.0	2855.4	2701.8	2581.5	2635.3	2886.2	3361.1	2652.9	2029.3
32.5°	3353.3	3335.2	3251.6	3147.9	3020.7	2858.8	2827.5	2991.4	3473.1	2719.9	2010.7
35°	3773.4	3745.1	3626.2	3484.9	3349.9	3186.0	3087.7	3172.8	3622.3	2822.1	2021.0
37.5°	4251.8	4213.6	4085.5	3890.3	3714.3	3530.8	3404.6	3422.3	3840.9	2959.1	2052.8
40°	4702.7	4668.0	4549.6	4365.7	4144.7	3922.1	3787.6	3748.5	4142.7	3125.9	2108.5
42.5°	4973.2	4941.9	4892.0	4814.2	4627.9	4401.0	4231.2	4146.6	4499.8	3325.4	2176.5
45°	4988.4	4961.0	5028.0	5118.5	5081.8	4930.7	4723.8	4568.7	4858.3	3512.7	2246.9
47.5°	4745.8	4727.2	4930.7	5246.6	5404.1	5467.7	5276.9	4955.6	5154.2	3647.2	2275.8
50°	4084.5	4077.7	4496.3	5076.4	5526.9	5938.2	5860.4	5315.6	5383.6	3716.7	2248.4
52.5°	3541.6	3516.7	3760.7	4531.5	5348.3	6185.7	6430.7	5668.7	5544.0	3729.9	2184.3
55°	2686.2	2664.1	2970.3	3619.9	4772.7	6097.7	6847.9	6033.1	5658.9	3696.2	2069.4
57.5°	1440.9	1427.2	1814.1	2409.3	3730.9	5569.4	6923.3	6418.5	5755.8	3606.6	1908.5
60°	561.0	558.6	703.3	1169.0	2267.5	4531.1	6543.2	6649.9	5816.4	3496.6	1774.0
62.5°	339.4	346.8	370.3	524.8	1001.7	2814.8	5667.2	6386.7	5857.0	3395.8	1663.0
65°	280.7	281.2	284.2	360.5	479.8	1177.8	4266.4	5521.0	5756.7	3216.3	1505.5
67.5°	240.6	245.0	256.3	286.1	338.5	516.5	2456.3	4276.7	5146.8	2798.7	1259.9
70°	189.8	195.6	209.8	235.3	261.2	323.3	907.8	2845.6	3931.9	2109.5	952.8
72.5°	159.9	159.4	166.8	191.2	207.4	227.4	349.2	1594.5	2285.1	1007.1	471.5
75°	123.7	128.6	137.9	159.9	169.7	164.8	189.3	582.5	818.8	305.2	160.4
77.5°	96.8	100.8	109.1	130.6	140.4	116.9	109.1	208.4	263.1	109.6	72.4
80°	43.5	47.0	74.3	96.4	114.5	80.7	59.2	106.6	116.9	49.9	36.7
82.5°	7.8	13.2	43.5	50.9	58.7	52.3	30.8	55.3	57.2	20.1	12.7
85°	0.5	1.0	15.2	18.6	23.5	17.1	9.3	22.0	19.1	6.8	4.9
87.5°	0.0	0.0	0.0	0.5	0.5	2.4	2.9	3.9	2.9	2.4	2.0
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°	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1880.6	1811.2	1743.7	1688.4	1656.1	1601.3	1565.1	1559.3	1544.1	1557.3
5°	1844.4	1720.2	1594.5	1482.0	1389.5	1270.2	1181.2	1143.5	1110.8	1122.0
7.5°	1827.3	1631.2	1435.5	1243.3	1045.7	855.0	713.1	653.9	608.9	615.3
10°	1804.3	1538.7	1232.1	938.6	674.0	485.7	387.9	351.7	331.6	332.1
12.5°	1786.7	1428.2	995.8	636.3	410.4	310.1	279.8	271.0	265.1	265.6
15°	1777.9	1298.1	762.5	424.1	293.5	262.6	255.3	251.4	247.5	247.0
17.5°	1763.2	1153.3	558.1	309.6	256.8	246.0	239.7	235.3	230.4	229.4
20°	1741.2	989.0	407.9	261.7	240.6	232.3	223.5	217.7	211.8	210.8
22.5°	1700.6	815.3	313.5	242.1	228.9	219.6	208.8	202.0	196.1	195.2
25°	1625.3	652.5	264.1	229.9	218.6	207.4	195.6	186.3	181.0	180.0
27.5°	1529.9	512.6	239.7	218.6	205.4	195.2	181.9	173.1	168.3	167.3
30°	1417.4	394.7	225.5	205.9	189.8	181.0	169.2	161.9	159.0	159.0
32.5°	1296.1	315.5	219.6	193.2	176.1	166.3	157.0	154.1	153.1	152.6
35°	1182.2	273.9	216.7	182.9	163.8	154.6	150.6	151.1	153.1	153.1
37.5°	1080.9	260.7	215.2	175.6	153.1	144.8	147.2	151.6	149.7	149.7
40°	989.5	262.2	214.2	170.2	144.3	139.4	144.3	140.9	136.0	135.5
42.5°	919.5	274.4	212.3	165.8	138.9	135.5	133.5	128.1	127.7	128.6
45°	868.6	285.1	211.8	163.8	133.0	126.7	124.2	118.9	128.6	131.1
47.5°	808.5	285.1	211.8	157.0	123.3	120.8	116.9	111.0	120.8	123.3
50°	730.7	267.1	203.5	149.2	115.4	114.0	107.1	99.8	97.8	99.3
52.5°	632.4	234.3	182.4	138.4	107.6	104.7	96.4	91.0	89.5	89.5
55°	520.4	196.1	154.1	122.8	99.3	93.9	88.0	85.6	84.1	83.1
57.5°	423.1	160.9	123.7	109.1	91.5	84.6	82.7	79.7	77.3	75.8
60°	347.3	126.7	102.2	96.8	83.6	77.3	76.8	72.9	66.5	65.5
62.5°	268.0	92.9	86.1	84.1	75.8	70.4	69.5	61.6	51.8	49.9
65°	189.3	72.4	69.5	73.9	67.5	62.6	60.2	48.4	38.2	36.7
67.5°	133.0	60.6	54.8	64.6	58.7	52.3	50.9	41.1	31.8	30.8
70°	94.9	49.4	45.0	55.3	47.0	46.0	43.0	34.2	25.9	24.9
72.5°	67.0	37.7	34.7	47.9	32.3	39.6	35.2	26.4	19.6	18.6
75°	49.4	26.9	24.5	27.9	23.5	29.8	24.9	17.6	12.2	11.7
77.5°	36.2	17.1	14.7	13.7	13.7	18.6	13.7	7.3	5.4	4.9
80°	25.4	7.8	6.8	5.9	5.4	4.4	2.0	1.0	0.5	0.5
82.5°	15.2	3.4	3.4	2.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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)