

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: P950559

Luminaire Tested: **GALN-SB5A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15584 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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

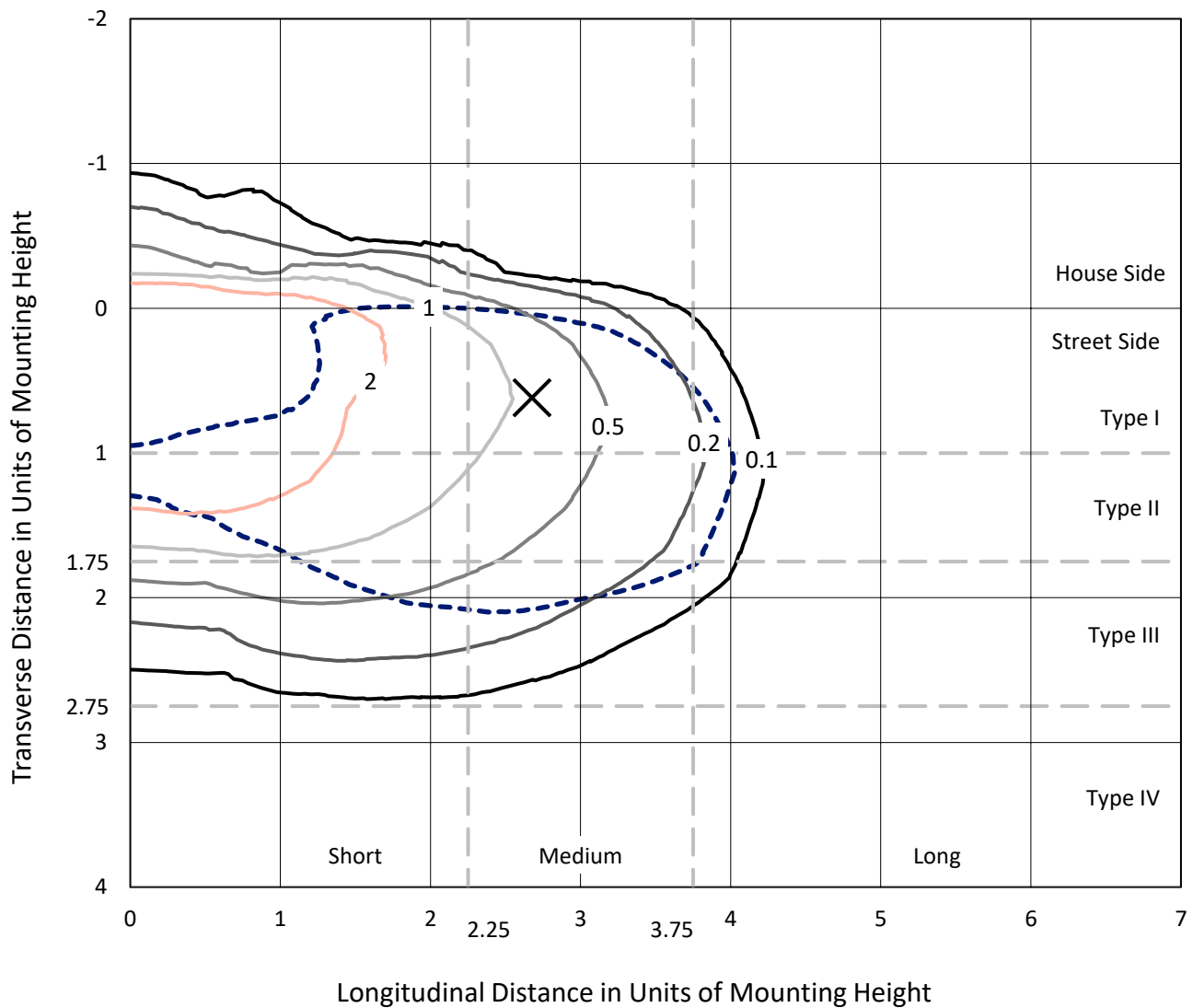


REPORT NUMBER: P950559

CATALOG NUMBER: GALN-SB5A-722-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

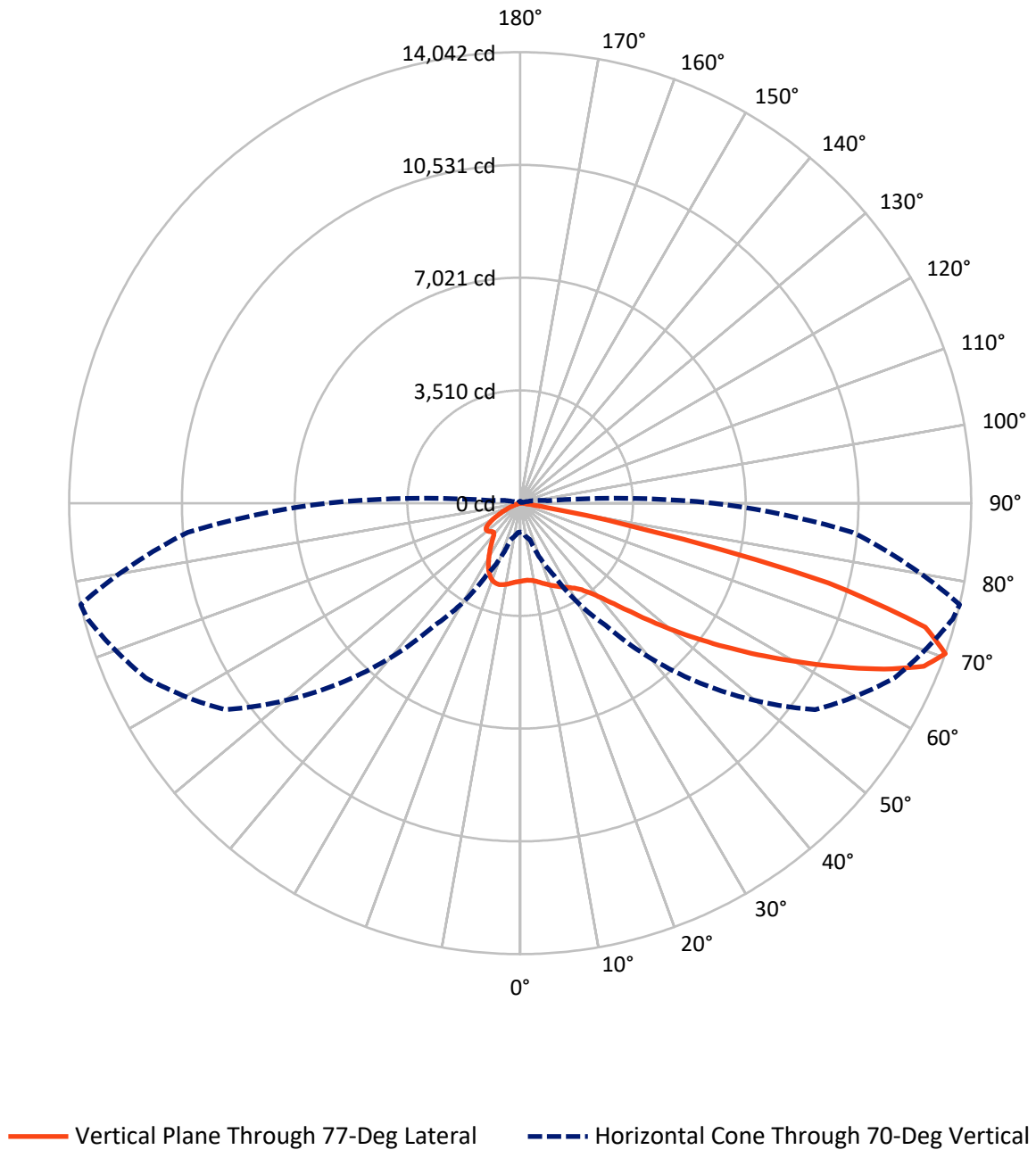
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Medium - N/A

REPORT NUMBER: P950559
CATALOG NUMBER: GALN-SB5A-722-U-T3R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.8	0.0	1642.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13941.2	0.0	13941.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	15584.0	0.0	15584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.3
10°-20°	497.3	3.2
20°-30°	769.2	4.9
30°-40°	1395.8	9.0
40°-50°	2634.7	16.9
50°-60°	3807.0	24.4
60°-70°	4052.4	26.0
70°-80°	2147.5	13.8
80°-90°	70.5	0.5
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°	15584.0	100.0
0°-180°	15584.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950559

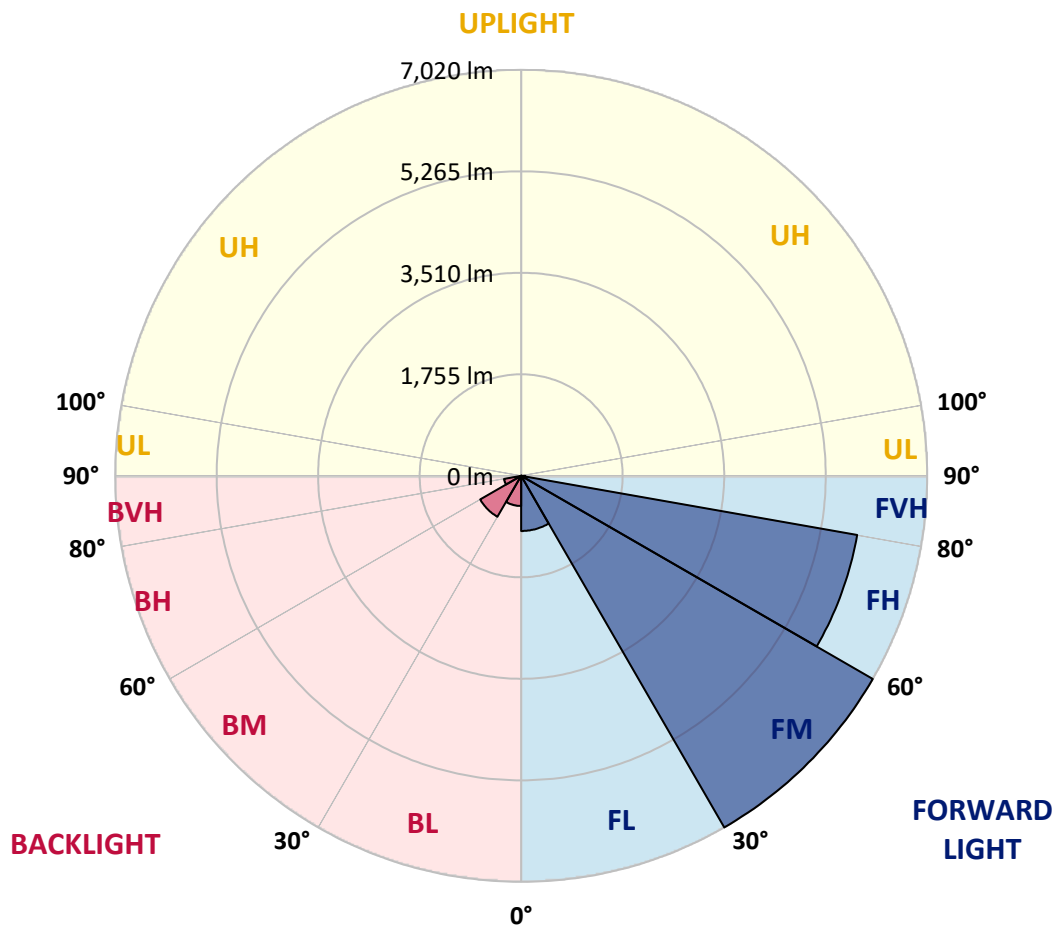
CATALOG NUMBER: GALN-SB5A-722-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	954.1	6.1			
FM	(30°-60°)	7019.7	45.0			
FH	(60°-80°)	5898.8	37.9			G3/7500
FVH	(80°-90°)	68.6	0.4			G1/100
BL	(0°-30°)	521.9	3.3	B2/1000		
BM	(30°-60°)	817.8	5.2	B1/1000		
BH	(60°-80°)	301.2	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



REPORT NUMBER: P950559

CATALOG NUMBER: GALN-SB5A-722-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8
2.5°	2282.2	2302.9	2299.9	2313.7	2318.6	2338.3	2358.0	2384.6	2414.1	2413.1	2432.8
5°	2153.3	2174.0	2178.9	2197.6	2221.2	2251.7	2292.1	2345.2	2400.3	2409.2	2448.5
7.5°	2000.8	2022.4	2035.2	2072.6	2115.9	2178.9	2244.8	2322.6	2414.1	2426.9	2502.7
10°	1848.2	1867.9	1884.6	1937.8	2006.7	2100.2	2207.4	2319.6	2442.6	2461.3	2568.6
12.5°	1753.7	1772.4	1791.1	1837.4	1923.0	2037.2	2182.8	2333.4	2489.9	2516.4	2658.2
15°	1720.3	1737.0	1751.8	1793.1	1872.8	2002.7	2177.9	2361.9	2549.9	2585.3	2766.4
17.5°	1725.2	1734.1	1743.9	1775.4	1853.1	1987.0	2186.8	2411.1	2620.8	2652.3	2874.7
20°	1753.7	1758.7	1759.6	1781.3	1850.2	1985.0	2204.5	2458.4	2687.7	2730.0	2981.9
22.5°	1790.1	1792.1	1790.1	1804.9	1868.9	1999.8	2228.1	2515.5	2762.5	2801.8	3090.2
25°	1960.4	1923.0	1875.8	1847.2	1900.4	2028.3	2263.5	2592.2	2844.2	2882.5	3195.5
27.5°	2488.9	2381.6	2212.3	2022.4	1965.3	2069.6	2312.7	2670.0	2926.8	2961.3	3308.7
30°	3347.1	3206.3	2919.0	2490.9	2174.0	2156.2	2376.7	2747.7	3014.4	3051.8	3429.7
32.5°	4207.2	4172.7	3841.1	3248.6	2643.4	2349.1	2483.0	2853.0	3130.5	3160.1	3593.1
35°	5077.2	5007.3	4735.7	4150.1	3366.7	2741.8	2660.1	2990.8	3283.1	3316.5	3831.3
37.5°	5743.4	5701.1	5532.8	5050.6	4224.9	3348.0	2963.2	3204.4	3504.5	3541.9	4136.3
40°	6331.9	6312.3	6255.2	5937.3	5184.4	4141.3	3434.6	3535.0	3811.6	3855.9	4510.3
42.5°	6794.5	6840.7	6873.2	6784.7	6173.5	5046.7	4068.4	3999.5	4239.7	4284.9	4986.6
45°	7267.9	7283.6	7414.5	7542.4	7155.7	5993.4	4782.9	4543.8	4772.1	4828.2	5557.4
47.5°	7572.0	7634.9	7865.2	8090.6	7981.4	6932.3	5550.5	5186.4	5389.1	5494.4	6197.1
50°	7594.6	7713.7	8030.6	8423.2	8582.7	7825.9	6385.1	5918.6	6134.1	6250.3	6880.1
52.5°	7217.7	7402.7	7893.8	8468.5	8907.4	8582.7	7248.2	6650.8	6927.4	7078.9	7588.7
55°	5533.8	5775.9	7379.1	8222.5	8920.2	9156.4	8088.6	7413.5	7811.1	7982.3	8354.4
57.5°	4821.3	4943.3	5801.5	7795.4	8683.1	9387.7	8848.4	8139.8	8772.6	8985.2	9077.7
60°	4011.3	4171.8	4865.6	7096.6	8361.2	9410.3	9519.6	9076.7	9814.8	10054.0	9741.0
62.5°	2726.1	2900.3	3590.1	5896.0	7921.3	9399.5	10069.7	10041.2	10973.1	11230.0	10302.9
65°	1688.8	1798.0	2252.7	4814.4	7306.2	9411.3	10645.4	11212.3	12195.4	12456.2	10737.9
67.5°	1334.5	1384.7	1621.9	3696.4	6246.3	9145.6	11220.2	12313.5	13345.9	13552.6	10870.8
70°	896.6	927.1	1180.0	2478.1	4647.1	7919.4	11209.3	12866.6	13938.4	14041.7	10386.6
72.5°	472.4	496.0	689.9	1147.5	2806.8	5629.3	9448.7	12205.3	13348.9	13193.4	8877.9
75°	236.2	275.6	464.5	582.6	1198.7	3139.4	5867.4	9622.9	10506.7	9904.4	5696.2
77.5°	179.1	216.5	383.8	383.8	417.3	1057.0	2485.0	5248.4	4841.0	4031.0	1672.1
80°	114.2	147.6	335.6	290.3	174.2	268.7	647.6	1470.3	1028.4	782.4	304.1
82.5°	66.9	96.4	279.5	191.9	97.4	99.4	183.0	313.0	266.7	207.7	93.5
85°	26.6	63.0	191.9	75.8	38.4	24.6	55.1	66.9	55.1	41.3	23.6
87.5°	0.0	14.8	33.5	0.0	3.0	2.0	3.9	4.9	4.9	3.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950559

CATALOG NUMBER: GALN-SB5A-722-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8	2430.8
2.5°	2441.6	2443.6	2449.5	2450.5	2436.7	2419.0	2412.1	2409.2	2397.4	2396.4	2398.3
5°	2471.2	2480.0	2471.2	2445.6	2384.6	2298.9	2234.0	2180.9	2132.6	2117.9	2109.0
7.5°	2530.2	2539.1	2512.5	2412.1	2258.6	2088.3	1934.8	1826.6	1729.1	1692.7	1678.0
10°	2614.9	2626.7	2543.0	2340.3	2068.7	1795.1	1535.3	1352.2	1209.5	1151.4	1126.8
12.5°	2721.1	2726.1	2559.7	2231.0	1821.6	1430.9	1062.9	867.0	740.1	692.8	678.1
15°	2838.3	2831.4	2561.7	2082.4	1485.1	1011.7	693.8	569.8	518.6	502.9	502.9
17.5°	2961.3	2932.7	2522.3	1867.9	1116.0	691.8	514.7	485.2	476.3	472.4	471.4
20°	3082.3	3018.4	2450.5	1587.4	801.1	516.7	467.5	458.6	453.7	451.7	449.8
22.5°	3192.5	3083.3	2327.5	1261.7	581.6	456.6	441.9	434.0	425.1	421.2	420.2
25°	3299.8	3120.7	2154.3	957.6	465.5	427.1	415.3	400.5	388.7	383.8	381.8
27.5°	3404.1	3144.3	1937.8	708.6	415.3	399.6	377.9	357.2	348.4	346.4	344.4
30°	3515.3	3152.2	1691.7	528.5	384.8	365.1	333.6	310.0	305.1	306.1	306.1
32.5°	3651.2	3164.0	1443.7	433.0	359.2	323.8	286.4	261.8	257.8	261.8	260.8
35°	3813.5	3187.6	1204.6	398.6	336.6	281.5	241.1	220.4	216.5	219.5	218.5
37.5°	4034.0	3226.0	981.2	391.7	317.9	246.0	202.7	186.0	186.0	187.0	186.0
40°	4327.3	3328.4	781.4	386.8	308.0	219.5	171.2	164.4	167.3	169.3	169.3
42.5°	4684.5	3545.9	646.6	380.9	297.2	207.7	155.5	152.5	157.5	159.4	159.4
45°	5085.0	3821.4	599.3	371.0	287.4	215.5	148.6	144.7	150.6	151.6	152.5
47.5°	5499.4	4091.1	593.4	360.2	277.5	227.3	146.6	137.8	144.7	145.7	146.6
50°	5918.6	4267.2	599.3	343.5	261.8	227.3	147.6	130.9	136.8	139.7	140.7
52.5°	6340.8	4347.9	595.4	307.1	234.2	213.6	147.6	125.0	130.9	132.9	132.9
55°	6750.2	4332.2	535.4	252.9	198.8	189.0	143.7	120.1	124.0	125.0	125.0
57.5°	7074.0	4112.7	424.2	196.8	161.4	157.5	130.9	114.2	117.1	116.1	116.1
60°	7243.3	3630.5	303.1	151.6	127.0	124.0	115.1	106.3	108.3	103.3	102.4
62.5°	7245.2	2992.8	202.7	120.1	101.4	98.4	98.4	95.5	93.5	83.7	80.7
65°	7090.7	2285.2	134.8	95.5	81.7	76.8	82.7	81.7	74.8	61.0	59.0
67.5°	6740.4	1497.9	102.4	74.8	63.0	60.0	65.9	68.9	64.0	51.2	50.2
70°	6020.0	871.9	84.6	58.1	47.2	44.3	53.1	59.0	53.1	41.3	39.4
72.5°	5000.4	470.4	68.9	43.3	32.5	29.5	42.3	48.2	42.3	30.5	29.5
75°	3244.7	251.9	53.1	28.5	16.7	18.7	31.5	35.4	29.5	19.7	17.7
77.5°	1089.4	111.2	33.5	13.8	7.9	7.9	18.7	21.7	13.8	6.9	5.9
80°	243.1	46.3	13.8	5.9	3.0	3.0	3.9	3.9	2.0	0.0	0.0
82.5°	79.7	18.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.5	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	1.0	0.0	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	0.0

(END OF REPORT)