

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: P949488

Luminaire Tested: **GALN-SB4B-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949488
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-SB4B-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA 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: 15521 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 147
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



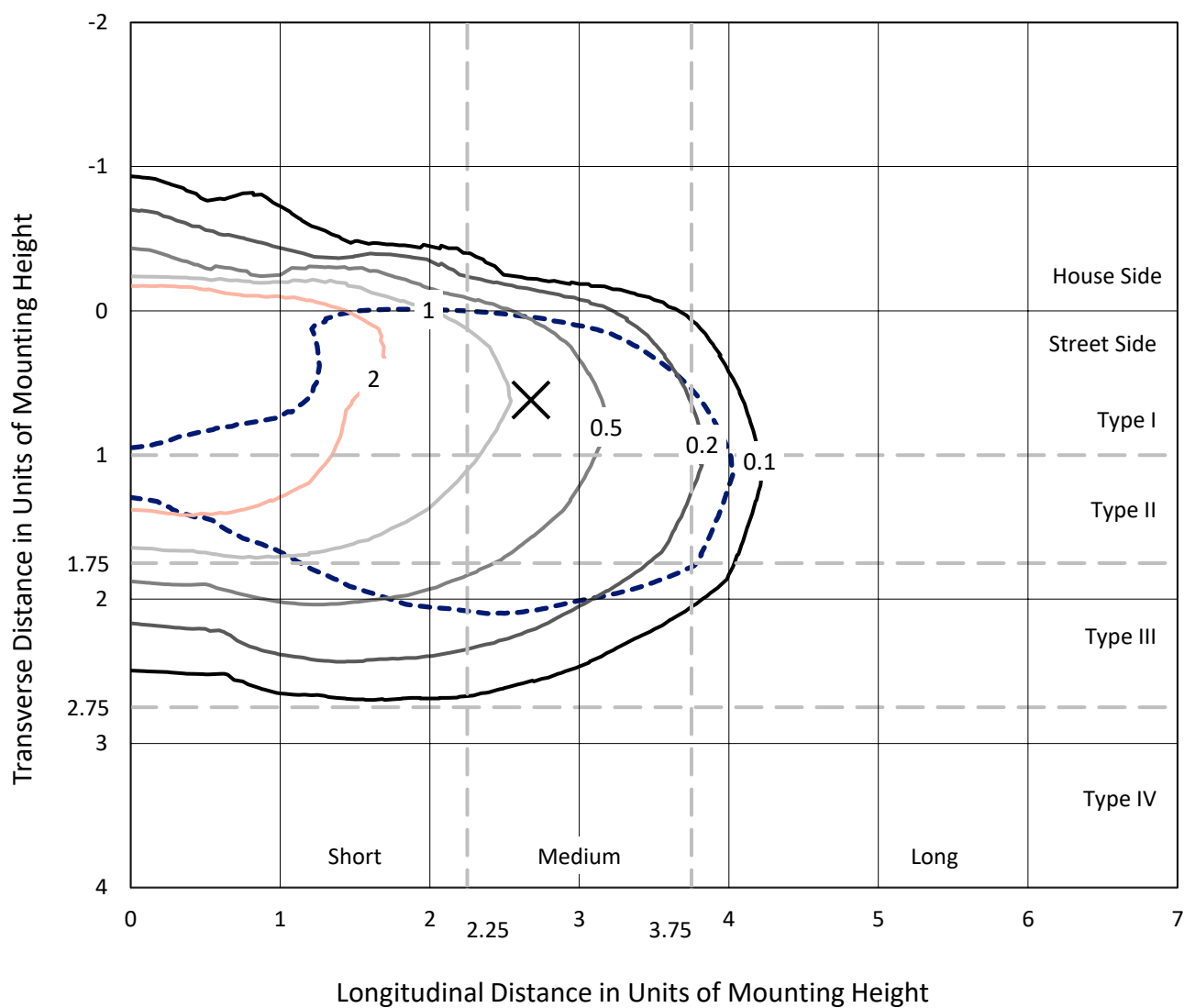
REPORT NUMBER: P949488

CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

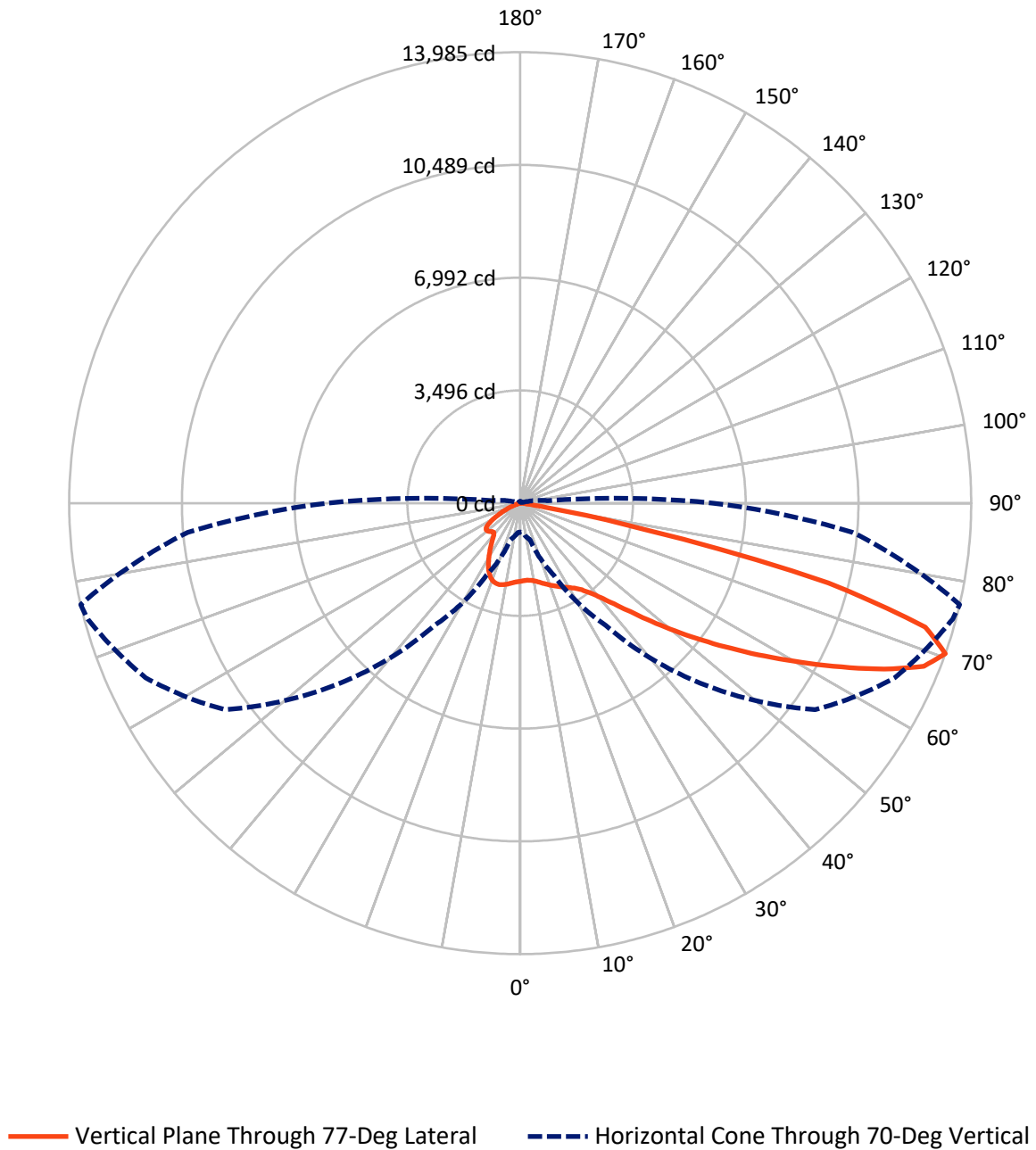
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P949488
CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949488

CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.1	0.0	1636.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	13884.9	0.0	13884.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	15521.0	0.0	15521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.3
10°-20°	495.3	3.2
20°-30°	766.1	4.9
30°-40°	1390.2	9.0
40°-50°	2624.1	16.9
50°-60°	3791.6	24.4
60°-70°	4036.0	26.0
70°-80°	2138.8	13.8
80°-90°	70.2	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°	15521.0	100.0
0°-180°	15521.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949488

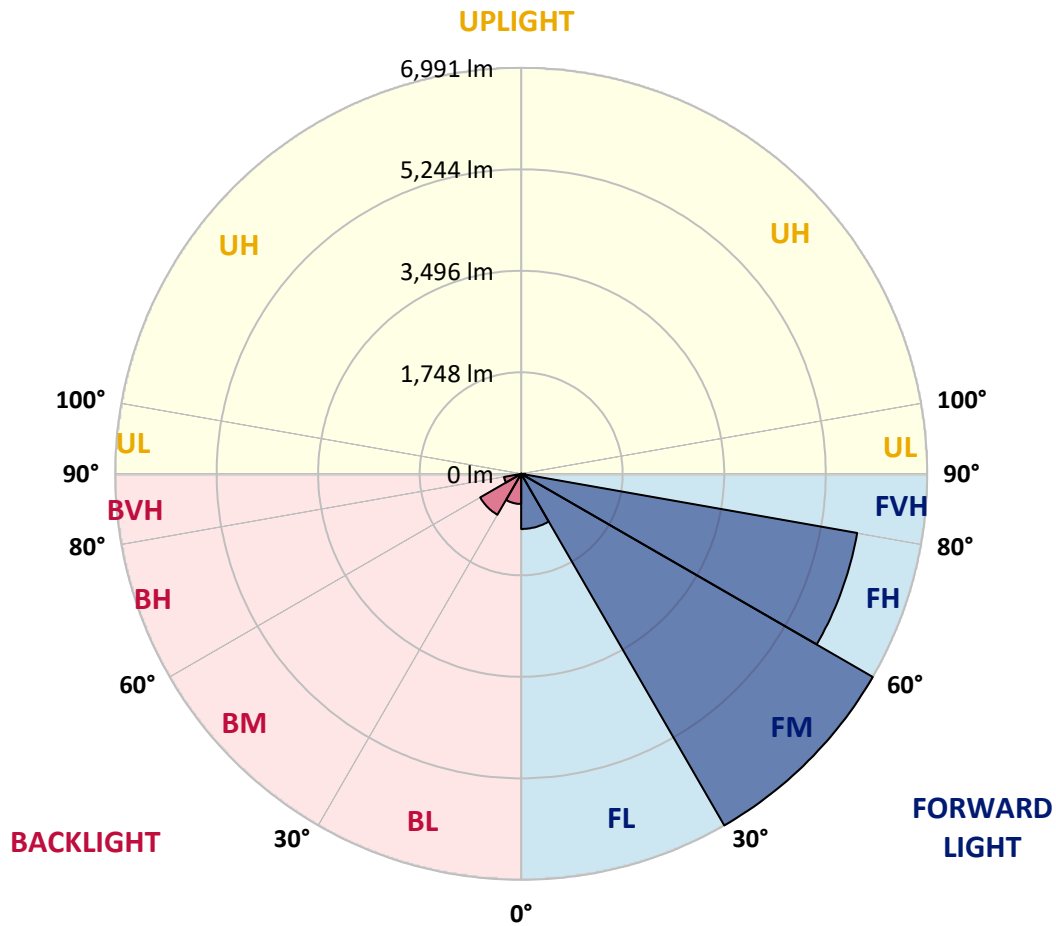
CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	950.3	6.1			
FM	(30°-60°)	6991.4	45.0			
FH	(60°-80°)	5874.9	37.9			G3/7500
FVH	(80°-90°)	68.3	0.4			G1/100
BL	(0°-30°)	519.8	3.3	B2/1000		
BM	(30°-60°)	814.5	5.2	B1/1000		
BH	(60°-80°)	299.9	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: P949488

CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	2273.0	2293.6	2290.6	2304.4	2309.3	2328.9	2348.5	2374.9	2404.3	2403.4	2423.0
5°	2144.6	2165.2	2170.1	2188.7	2212.2	2242.6	2282.8	2335.7	2390.6	2399.4	2438.6
7.5°	1992.7	2014.2	2027.0	2064.2	2107.3	2170.1	2235.7	2313.2	2404.3	2417.1	2492.5
10°	1840.7	1860.3	1877.0	1929.9	1998.5	2091.7	2198.5	2310.2	2432.8	2451.4	2558.2
12.5°	1746.6	1765.3	1783.9	1830.0	1915.2	2028.9	2174.0	2324.0	2479.8	2506.3	2647.4
15°	1713.3	1730.0	1744.7	1785.9	1865.2	1994.6	2169.1	2352.4	2539.6	2574.9	2755.2
17.5°	1718.2	1727.0	1736.8	1768.2	1845.6	1978.9	2177.9	2401.4	2610.2	2641.5	2863.0
20°	1746.6	1751.5	1752.5	1774.1	1842.7	1977.0	2195.6	2448.4	2676.8	2719.0	2969.9
22.5°	1782.9	1784.9	1782.9	1797.6	1861.3	1991.7	2219.1	2505.3	2751.3	2790.5	3077.7
25°	1952.5	1915.2	1868.2	1839.8	1892.7	2020.1	2254.4	2581.7	2832.7	2870.9	3182.6
27.5°	2478.8	2372.0	2203.4	2014.2	1957.4	2061.3	2303.4	2659.2	2915.0	2949.3	3295.3
30°	3333.5	3193.4	2907.2	2480.8	2165.2	2147.5	2367.1	2736.6	3002.2	3039.5	3415.9
32.5°	4190.2	4155.9	3825.6	3235.5	2632.7	2339.6	2472.9	2841.5	3117.9	3147.3	3578.6
35°	5056.6	4987.1	4716.5	4133.3	3353.1	2730.7	2649.4	2978.7	3269.8	3303.1	3815.8
37.5°	5720.2	5678.1	5510.5	5030.2	4207.8	3334.5	2951.3	3191.4	3490.4	3527.6	4119.6
40°	6306.4	6286.7	6229.9	5913.3	5163.5	4124.5	3420.8	3520.7	3796.2	3840.3	4492.1
42.5°	6767.0	6813.1	6845.4	6757.2	6148.5	5026.3	4052.0	3983.4	4222.5	4267.6	4966.5
45°	7238.5	7254.2	7384.5	7511.9	7126.7	5969.2	4763.6	4525.4	4752.8	4808.7	5535.0
47.5°	7541.4	7604.1	7833.4	8057.9	7949.1	6904.2	5528.1	5165.4	5367.4	5472.2	6172.1
50°	7563.9	7682.5	7998.1	8389.2	8548.0	7794.2	6359.3	5894.7	6109.3	6225.0	6852.3
52.5°	7188.5	7372.8	7861.9	8434.3	8871.4	8548.0	7218.9	6623.9	6899.3	7050.3	7558.0
55°	5511.4	5752.6	7349.2	8189.2	8884.2	9119.4	8055.9	7383.5	7779.5	7950.1	8320.6
57.5°	4801.8	4923.3	5778.0	7763.8	8648.0	9349.7	8812.6	8106.9	8737.1	8948.9	9041.0
60°	3995.1	4154.9	4845.9	7067.9	8327.4	9372.3	9481.1	9040.0	9775.1	10013.3	9701.6
62.5°	2715.0	2888.5	3575.6	5872.1	7889.3	9361.5	10029.0	10000.6	10928.8	11184.6	10261.3
65°	1682.0	1790.8	2243.6	4794.9	7276.7	9373.3	10602.4	11167.0	12146.1	12405.9	10694.5
67.5°	1329.1	1379.1	1615.3	3681.5	6221.1	9108.6	11174.8	12263.8	13292.0	13497.8	10826.8
70°	892.9	923.3	1175.2	2468.0	4628.3	7887.3	11164.0	12814.6	13882.0	13984.9	10344.6
72.5°	470.5	494.0	687.1	1142.9	2795.4	5606.5	9410.5	12155.9	13294.9	13140.0	8842.0
75°	235.2	274.4	462.6	580.3	1193.8	3126.7	5843.7	9584.0	10464.2	9864.3	5673.2
77.5°	178.4	215.6	382.3	382.3	415.6	1052.7	2474.9	5227.2	4821.4	4014.7	1665.3
80°	113.7	147.0	334.2	289.1	173.5	267.6	644.9	1464.4	1024.3	779.2	302.9
82.5°	66.7	96.1	278.4	191.1	97.0	99.0	182.3	311.7	265.6	206.8	93.1
85°	26.5	62.7	191.1	75.5	38.2	24.5	54.9	66.7	54.9	41.2	23.5
87.5°	0.0	14.7	33.3	0.0	2.9	2.0	3.9	4.9	4.9	3.9	7.8
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: P949488

CATALOG NUMBER: GALN-SB4B-722-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	2431.8	2433.7	2439.6	2440.6	2426.9	2409.2	2402.4	2399.4	2387.7	2386.7	2388.7
5°	2461.2	2470.0	2461.2	2435.7	2374.9	2289.7	2225.0	2172.0	2124.0	2109.3	2100.5
7.5°	2520.0	2528.8	2502.3	2402.4	2249.5	2079.9	1927.0	1819.2	1722.1	1685.9	1671.2
10°	2604.3	2616.0	2532.7	2330.8	2060.3	1787.8	1529.0	1346.7	1204.6	1146.8	1122.3
12.5°	2710.1	2715.0	2549.4	2222.0	1814.3	1425.2	1058.6	863.5	737.1	690.0	675.3
15°	2826.8	2819.9	2551.4	2074.0	1479.1	1007.6	691.0	567.5	516.5	500.9	500.9
17.5°	2949.3	2920.9	2512.2	1860.3	1111.5	689.1	512.6	483.2	474.4	470.5	469.5
20°	3069.9	3006.2	2440.6	1581.0	797.9	514.6	465.6	456.8	451.9	449.9	447.9
22.5°	3179.6	3070.8	2318.1	1256.6	579.3	454.8	440.1	432.3	423.4	419.5	418.5
25°	3286.5	3108.1	2145.6	953.7	463.6	425.4	413.6	398.9	387.2	382.3	380.3
27.5°	3390.4	3131.6	1929.9	705.7	413.6	397.9	376.4	355.8	347.0	345.0	343.1
30°	3501.1	3139.5	1684.9	526.3	383.2	363.6	332.3	308.8	303.8	304.8	304.8
32.5°	3636.4	3151.2	1437.9	431.3	357.8	322.5	285.2	260.7	256.8	260.7	259.7
35°	3798.1	3174.7	1199.7	397.0	335.2	280.3	240.1	219.6	215.6	218.6	217.6
37.5°	4017.7	3213.0	977.2	390.1	316.6	245.0	201.9	185.3	185.3	186.2	185.3
40°	4309.8	3314.9	778.2	385.2	306.8	218.6	170.5	163.7	166.6	168.6	168.6
42.5°	4665.6	3531.5	644.0	379.3	296.0	206.8	154.9	151.9	156.8	158.8	158.8
45°	5064.5	3806.0	596.9	369.5	286.2	214.7	148.0	144.1	150.0	150.9	151.9
47.5°	5477.1	4074.5	591.0	358.7	276.4	226.4	146.0	137.2	144.1	145.1	146.0
50°	5894.7	4250.0	596.9	342.1	260.7	226.4	147.0	130.4	136.2	139.2	140.2
52.5°	6315.2	4330.3	593.0	305.8	233.3	212.7	147.0	124.5	130.4	132.3	132.3
55°	6722.9	4314.7	533.2	251.9	198.0	188.2	143.1	119.6	123.5	124.5	124.5
57.5°	7045.4	4096.1	422.4	196.0	160.7	156.8	130.4	113.7	116.6	115.7	115.7
60°	7214.0	3615.8	301.9	150.9	126.4	123.5	114.7	105.9	107.8	102.9	101.9
62.5°	7215.9	2980.7	201.9	119.6	101.0	98.0	98.0	95.1	93.1	83.3	80.4
65°	7062.1	2275.9	134.3	95.1	81.4	76.5	82.3	81.4	74.5	60.8	58.8
67.5°	6713.1	1491.8	101.9	74.5	62.7	59.8	65.7	68.6	63.7	51.0	50.0
70°	5995.6	868.4	84.3	57.8	47.0	44.1	52.9	58.8	52.9	41.2	39.2
72.5°	4980.2	468.5	68.6	43.1	32.3	29.4	42.1	48.0	42.1	30.4	29.4
75°	3231.6	250.9	52.9	28.4	16.7	18.6	31.4	35.3	29.4	19.6	17.6
77.5°	1085.0	110.8	33.3	13.7	7.8	7.8	18.6	21.6	13.7	6.9	5.9
80°	242.1	46.1	13.7	5.9	2.9	2.9	3.9	3.9	2.0	0.0	0.0
82.5°	79.4	18.6	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.4	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)