

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: P941606

Luminaire Tested: **GALN-SB5B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18429 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 182.7
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

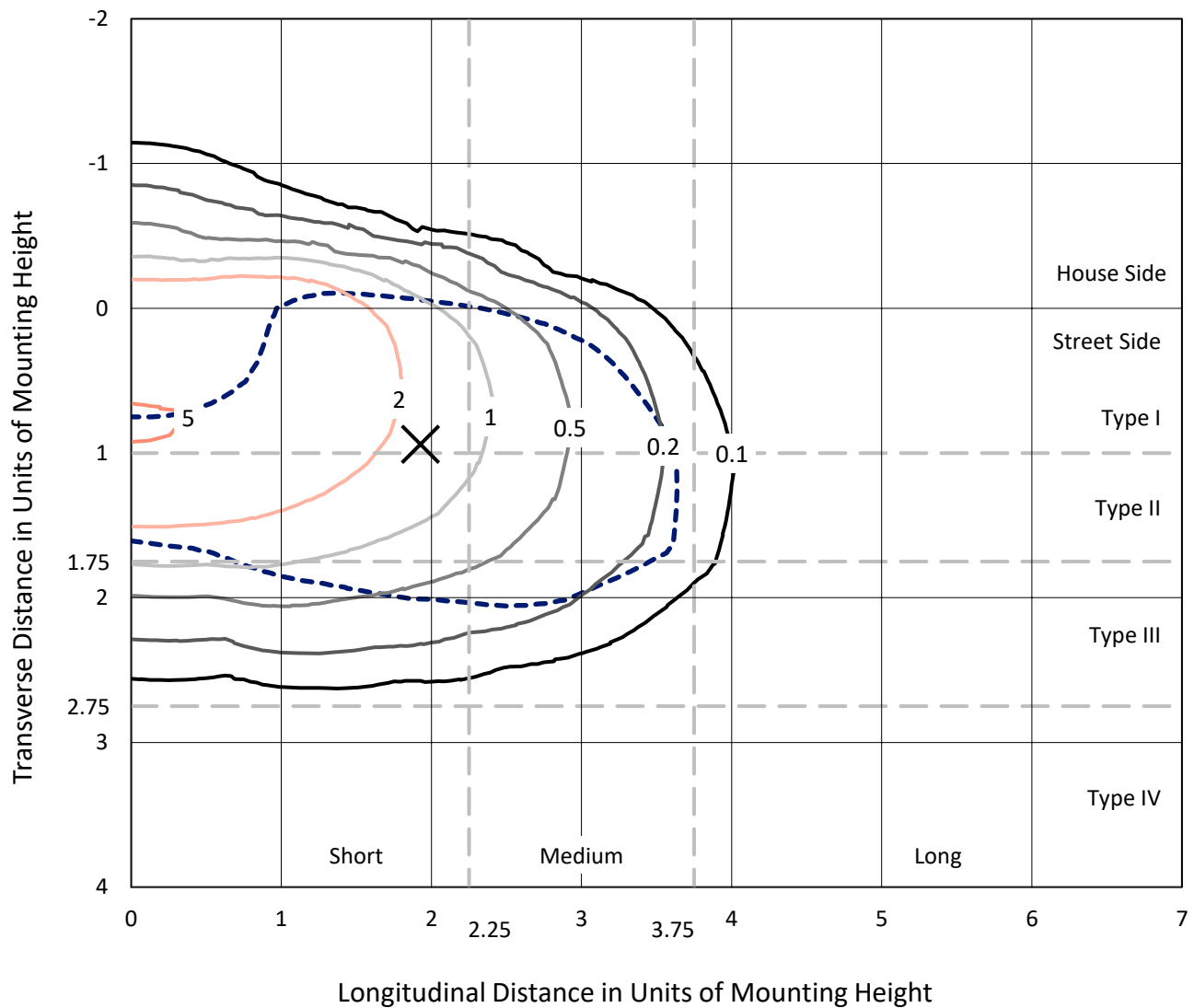


REPORT NUMBER: P941606

CATALOG NUMBER: GALN-SB5B-722-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

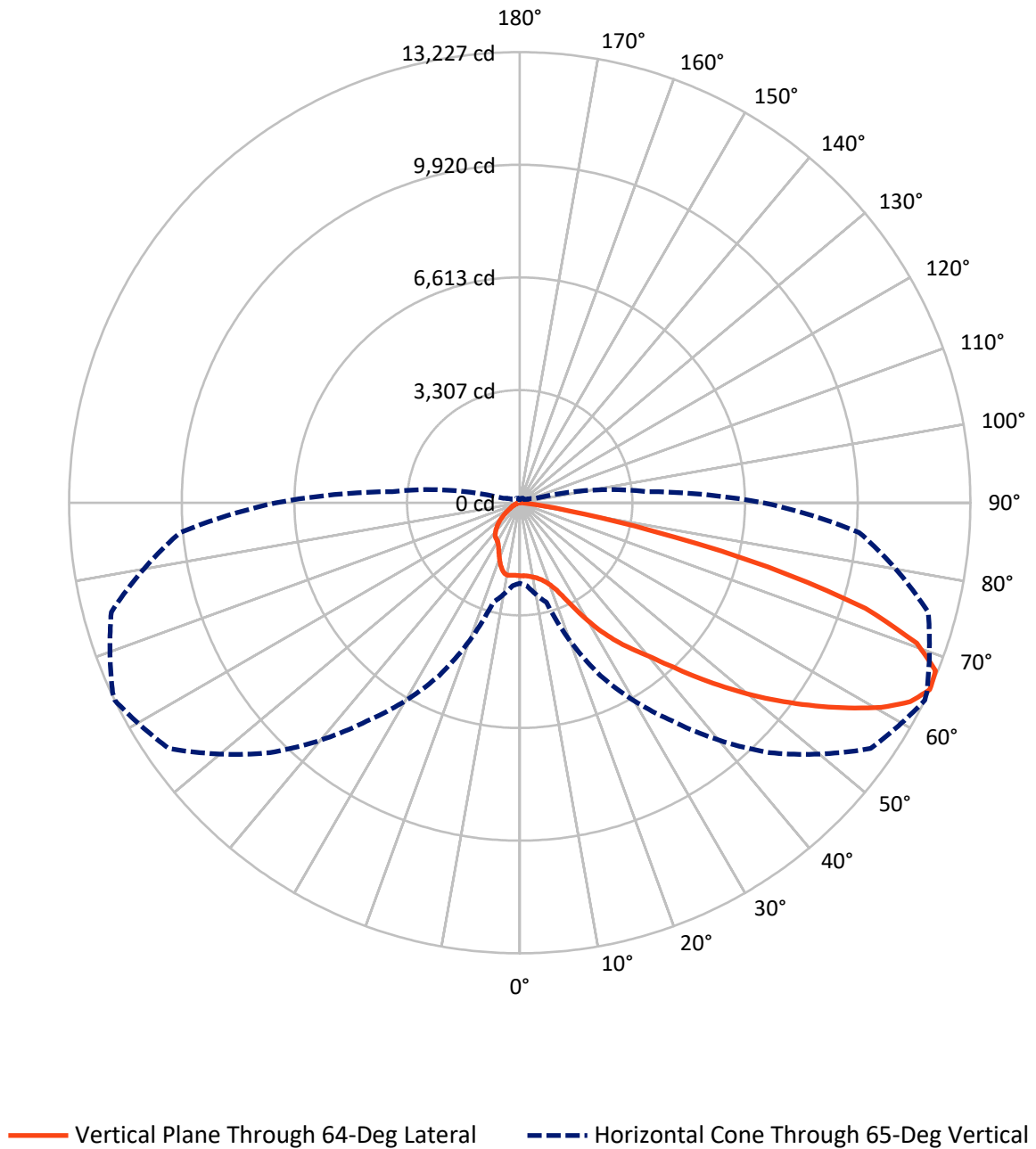


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Short - N/A

REPORT NUMBER: P941606

CATALOG NUMBER: GALN-SB5B-722-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941606

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.5	0.0	2464.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15964.5	0.0	15964.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	18429.0	0.0	18429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	1.1
10°-20°	536.4	2.9
20°-30°	1016.4	5.5
30°-40°	2056.7	11.2
40°-50°	3503.6	19.0
50°-60°	4764.6	25.9
60°-70°	4474.2	24.3
70°-80°	1792.6	9.7
80°-90°	86.8	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°	18429.0	100.0
0°-180°	18429.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941606

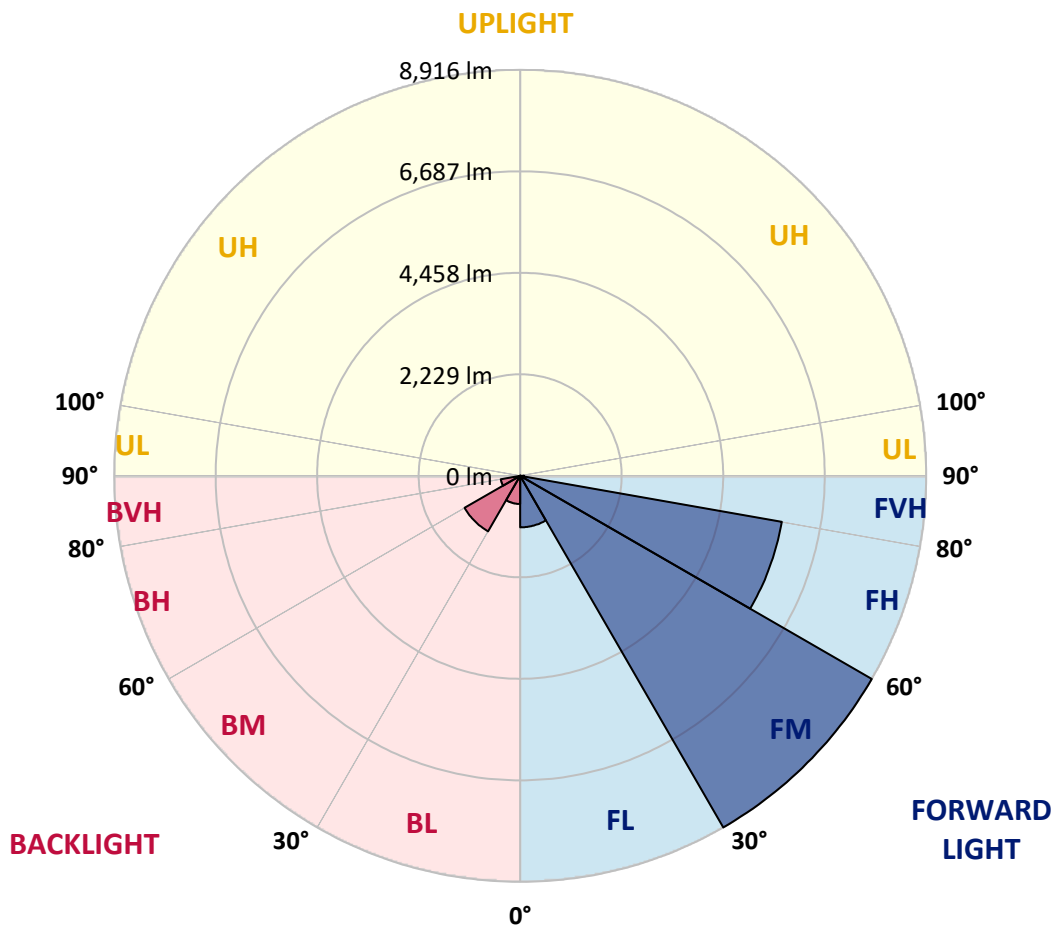
CATALOG NUMBER: GALN-SB5B-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1131.8	6.1			
FM	(30°-60°)	8915.9	48.4			
FH	(60°-80°)	5834.2	31.7			G3/7500
FVH	(80°-90°)	82.6	0.4			G1/100
BL	(0°-30°)	618.8	3.4	B2/1000		
BM	(30°-60°)	1408.9	7.6	B2/2500		
BH	(60°-80°)	432.6	2.3	B1/500		G1/500
BVH	(80°-90°)	4.2	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 Short



REPORT NUMBER: P941606

CATALOG NUMBER: GALN-SB5B-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5
2.5°	2136.1	2150.9	2147.2	2143.5	2142.2	2144.7	2146.0	2144.7	2144.7	2144.7	2146.0
5°	2095.3	2107.7	2107.7	2116.3	2128.7	2143.5	2154.6	2157.1	2159.5	2163.3	2162.0
7.5°	2017.5	2027.4	2034.8	2063.2	2094.1	2133.6	2167.0	2184.3	2186.7	2200.3	2205.3
10°	1964.3	1976.7	1989.1	2018.7	2063.2	2122.5	2179.3	2221.3	2227.5	2259.6	2274.4
12.5°	1961.9	1974.2	1990.3	2022.4	2074.3	2137.3	2206.5	2267.0	2278.1	2325.1	2356.0
15°	1987.8	2002.6	2017.5	2057.0	2112.6	2189.2	2263.3	2338.7	2349.8	2416.5	2449.9
17.5°	2040.9	2060.7	2071.8	2111.4	2170.7	2255.9	2353.5	2440.0	2449.9	2527.7	2569.7
20°	2146.0	2169.4	2173.1	2205.3	2263.3	2354.7	2470.9	2578.4	2590.7	2679.7	2726.6
22.5°	2363.4	2396.7	2367.1	2383.2	2435.0	2526.5	2652.5	2788.4	2805.7	2907.0	2949.0
25°	2746.4	2793.3	2716.7	2689.5	2711.8	2806.9	2965.1	3136.8	3156.5	3238.1	3259.1
27.5°	3498.8	3438.2	3322.1	3208.4	3141.7	3196.1	3374.0	3586.5	3611.2	3690.3	3665.5
30°	4325.3	4272.1	4115.2	3863.2	3705.1	3696.4	3860.7	4097.9	4126.4	4201.7	4126.4
32.5°	5153.0	5102.4	4931.9	4621.8	4347.5	4211.6	4325.3	4588.4	4603.2	4651.4	4540.2
35°	5967.2	5915.3	5744.8	5427.3	5090.0	4781.1	4758.9	5055.4	5060.4	5111.0	4945.5
37.5°	6786.3	6743.0	6561.4	6250.1	5917.7	5491.5	5285.2	5497.7	5503.9	5553.3	5381.6
40°	7370.6	7389.2	7264.4	7023.5	6738.1	6272.3	5875.7	5968.4	5931.3	6014.1	5911.6
42.5°	7872.2	7909.3	7800.6	7679.5	7513.9	7103.8	6607.1	6591.1	6531.8	6576.2	6470.0
45°	8305.8	8336.7	8239.1	8210.7	8207.0	7919.2	7406.4	7310.1	7227.3	7218.7	7091.4
47.5°	8465.2	8524.5	8566.5	8661.7	8847.0	8725.9	8233.0	8083.5	7990.8	7922.9	7721.5
50°	8525.8	8588.8	8732.1	9008.8	9447.4	9499.3	9055.8	8887.7	8774.1	8650.5	8354.0
52.5°	8444.2	8556.6	8749.4	9215.1	9851.4	10119.5	9845.2	9698.2	9568.5	9367.1	8927.3
55°	7963.6	8076.1	8470.2	9212.7	10052.8	10554.3	10591.4	10525.9	10380.1	10062.6	9390.6
57.5°	6950.6	7117.4	7741.3	8898.9	10049.0	10928.7	11322.8	11369.7	11206.7	10752.0	9755.0
60°	5547.1	5773.2	6534.2	8203.3	9739.0	11131.3	11964.0	12198.7	12025.7	11431.5	10050.3
62.5°	3870.6	4132.5	4852.8	7113.6	9029.8	10985.5	12432.2	12865.8	12734.9	12039.3	10163.9
65°	2360.9	2444.9	3025.6	5597.8	7824.0	10375.2	12576.8	13226.6	13183.4	12411.2	9995.9
67.5°	1572.7	1643.1	1809.9	3838.5	6073.4	9155.8	12230.8	13163.6	13175.9	12350.7	9380.7
70°	947.6	1008.1	1116.8	2232.4	3936.1	7247.1	11159.7	12360.6	12432.2	11541.5	8214.4
72.5°	390.4	431.2	530.0	1011.8	2038.5	4599.5	8886.5	10612.4	10779.2	9704.4	6304.4
75°	221.1	242.1	311.3	507.8	884.6	2143.5	5382.8	7533.7	7779.5	6688.7	3792.8
77.5°	147.0	156.9	201.4	328.6	497.9	731.4	2300.4	3925.0	4394.5	3653.2	1641.9
80°	98.8	107.5	138.4	219.9	323.7	313.8	732.6	1454.1	1788.9	1255.2	400.3
82.5°	66.7	67.9	98.8	144.5	205.1	152.0	216.2	452.2	568.3	363.2	152.0
85°	38.3	37.1	72.9	84.0	91.4	63.0	65.5	135.9	177.9	153.2	86.5
87.5°	4.9	7.4	28.4	22.2	12.4	13.6	13.6	23.5	34.6	37.1	18.5
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: P941606

CATALOG NUMBER: GALN-SB5B-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5	2143.5
2.5°	2146.0	2144.7	2141.0	2137.3	2128.7	2123.7	2126.2	2123.7	2122.5	2123.7	2128.7
5°	2162.0	2158.3	2148.4	2136.1	2118.8	2097.8	2084.2	2064.4	2045.9	2034.8	2037.2
7.5°	2205.3	2201.5	2188.0	2153.4	2097.8	2010.1	1929.8	1859.3	1806.2	1775.3	1776.6
10°	2274.4	2268.3	2247.3	2170.7	2024.9	1833.4	1674.0	1541.8	1455.3	1414.6	1410.9
12.5°	2356.0	2348.6	2311.5	2154.6	1886.5	1587.5	1367.6	1220.6	1140.3	1104.5	1100.8
15°	2452.3	2442.5	2369.6	2078.0	1685.1	1315.7	1114.4	1004.4	952.5	920.4	921.6
17.5°	2572.2	2554.9	2412.8	1963.1	1466.5	1108.2	958.7	875.9	830.2	799.3	796.9
20°	2727.8	2699.4	2447.4	1826.0	1265.1	977.2	853.7	784.5	749.9	722.7	717.8
22.5°	2945.3	2904.5	2489.4	1677.7	1123.0	887.0	775.9	725.2	696.8	665.9	661.0
25°	3214.6	3166.4	2541.3	1540.6	1025.4	809.2	719.0	677.0	643.7	607.8	604.1
27.5°	3591.4	3504.9	2603.1	1428.2	941.4	742.5	667.1	620.2	581.9	552.2	546.1
30°	4011.5	3869.4	2657.4	1360.2	864.8	680.7	599.2	552.2	516.4	495.4	491.7
32.5°	4409.3	4216.5	2693.3	1330.6	795.6	610.3	525.1	474.4	447.2	441.1	444.8
35°	4784.8	4530.3	2689.5	1302.2	733.8	539.9	452.2	400.3	379.3	383.0	383.0
37.5°	5217.3	4865.2	2663.6	1257.7	683.2	475.6	389.2	343.5	324.9	326.2	331.1
40°	5720.1	5251.8	2647.5	1173.7	627.6	416.3	337.3	300.2	286.6	281.7	280.4
42.5°	6256.3	5626.2	2650.0	1078.5	558.4	363.2	301.4	270.6	258.2	254.5	253.3
45°	6794.9	5983.2	2653.7	979.7	485.5	322.4	275.5	249.6	242.1	237.2	237.2
47.5°	7301.4	6287.1	2584.5	873.5	413.9	291.6	254.5	237.2	231.0	224.8	224.8
50°	7773.4	6489.8	2417.8	749.9	357.0	266.9	238.4	226.1	219.9	213.7	213.7
52.5°	8140.3	6521.9	2142.2	622.7	317.5	248.3	228.6	217.4	210.0	203.8	202.6
55°	8303.4	6320.5	1750.6	504.1	286.6	232.3	218.7	207.6	198.9	192.7	191.5
57.5°	8261.4	5896.7	1365.2	405.2	257.0	216.2	206.3	198.9	189.0	179.1	177.9
60°	8055.1	5329.7	1029.1	337.3	229.8	198.9	192.7	186.6	173.0	158.1	155.7
62.5°	7698.0	4616.8	733.8	279.2	200.1	179.1	176.7	171.7	152.0	124.8	122.3
65°	7151.9	3750.8	494.2	232.3	171.7	156.9	158.1	149.5	123.5	92.7	90.2
67.5°	6353.9	2742.7	316.3	190.3	143.3	131.0	132.2	127.3	105.0	79.1	75.4
70°	5337.1	1816.1	206.3	144.5	114.9	101.3	108.7	110.0	89.0	64.2	61.8
72.5°	3912.6	1072.4	144.5	107.5	84.0	70.4	89.0	91.4	71.7	48.2	45.7
75°	2230.0	509.0	108.7	77.8	51.9	49.4	69.2	69.2	49.4	32.1	29.7
77.5°	936.5	212.5	76.6	50.7	29.7	28.4	46.9	43.2	24.7	14.8	14.8
80°	270.6	95.1	40.8	24.7	12.4	11.1	18.5	13.6	6.2	2.5	2.5
82.5°	106.2	42.0	16.1	9.9	4.9	4.9	2.5	0.0	0.0	0.0	0.0
85°	63.0	17.3	7.4	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	3.7	2.5	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	0.0

(END OF REPORT)