

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: P940927

Luminaire Tested: **GALN-SB4B-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

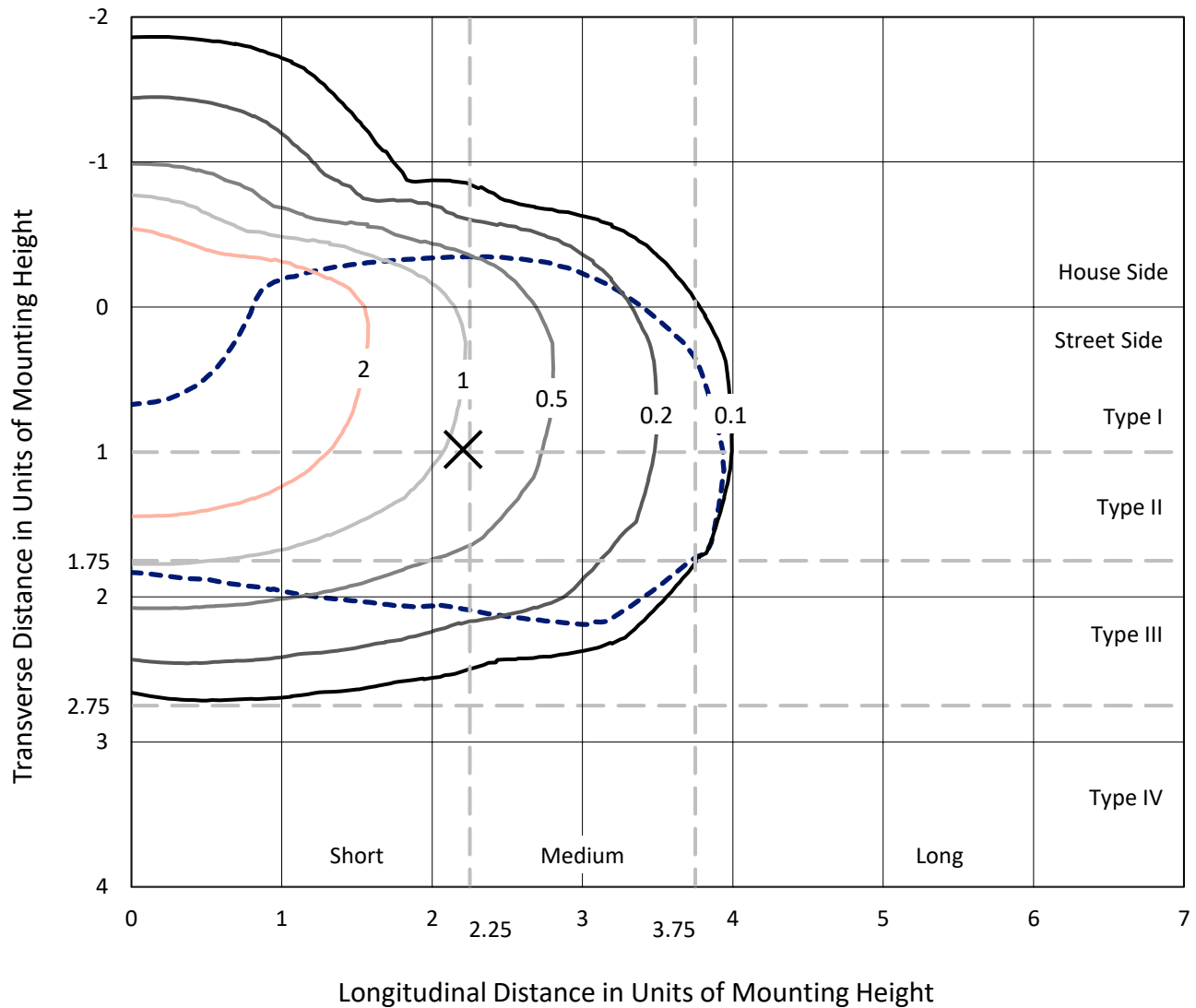


REPORT NUMBER: P940927

CATALOG NUMBER: GALN-SB4B-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

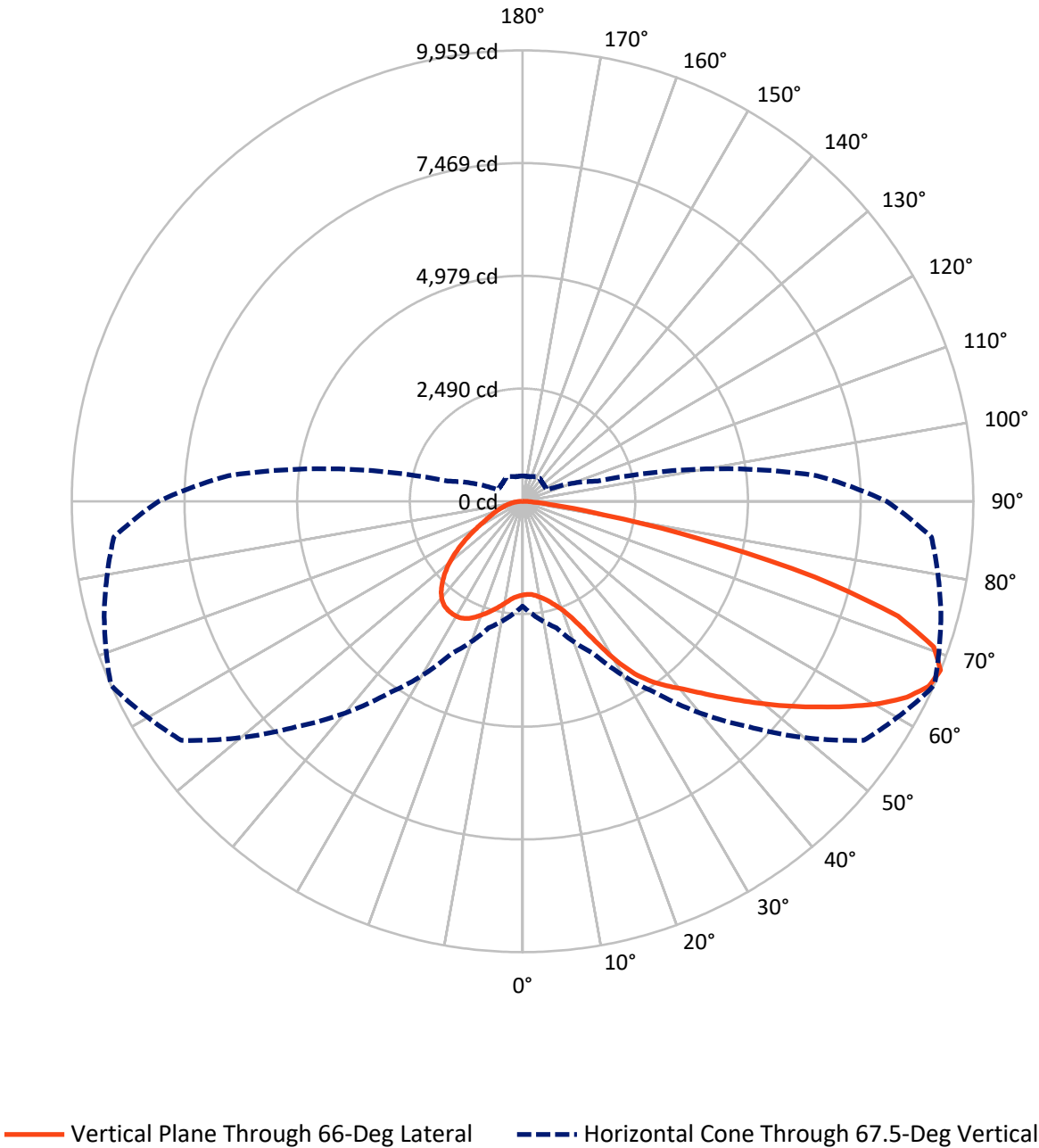
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

REPORT NUMBER: P940927
CATALOG NUMBER: GALN-SB4B-722-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4638.8	0.0	4638.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14017.2	0.0	14017.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	18656.0	0.0	18656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	1.1
10°-20°	677.8	3.6
20°-30°	1306.4	7.0
30°-40°	2290.6	12.3
40°-50°	3405.4	18.3
50°-60°	4316.7	23.1
60°-70°	4223.8	22.6
70°-80°	2014.8	10.8
80°-90°	215.3	1.2
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°	18656.0	100.0
0°-180°	18656.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940927

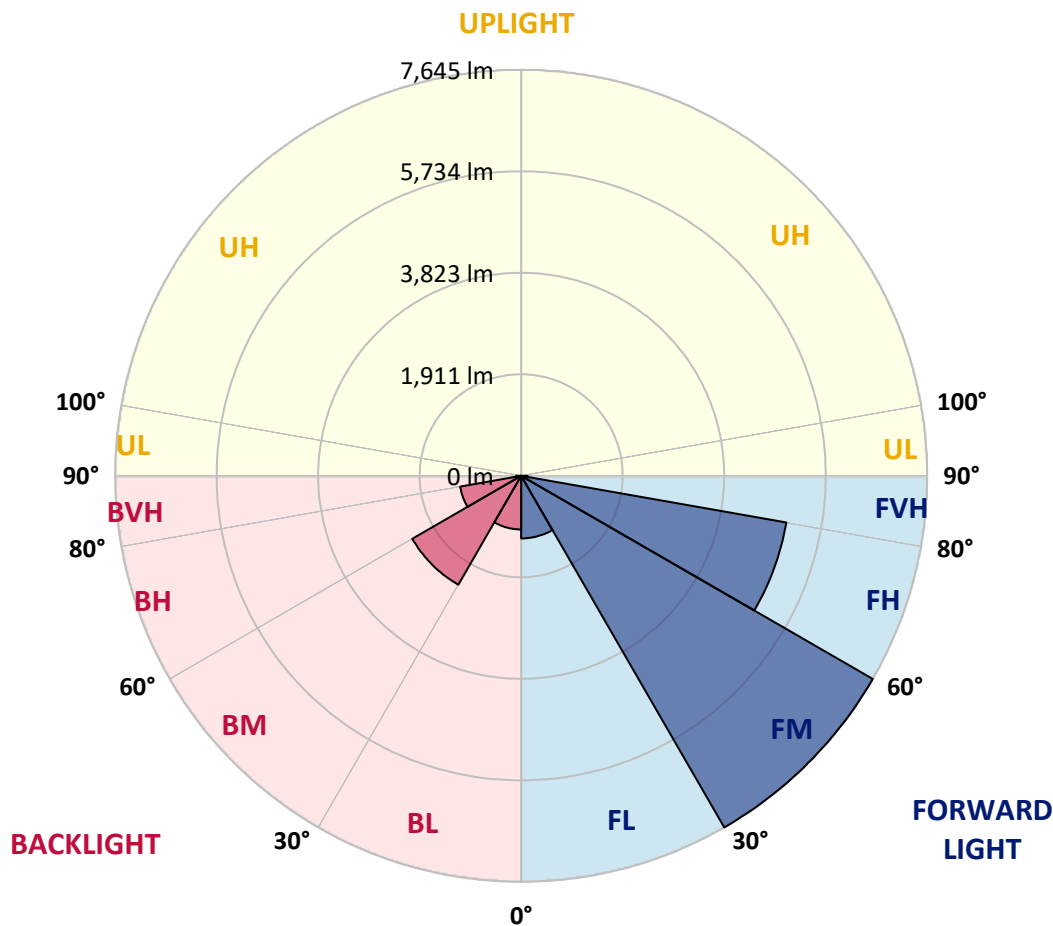
CATALOG NUMBER: GALN-SB4B-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1178.9	6.3			
FM	(30°-60°)	7645.1	41.0			
FH	(60°-80°)	5071.2	27.2			G3/7500
FVH	(80°-90°)	122.1	0.7			G2/225
BL	(0°-30°)	1010.5	5.4	B3/2500		
BM	(30°-60°)	2367.7	12.7	B2/2500		
BH	(60°-80°)	1167.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	93.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P940927

CATALOG NUMBER: GALN-SB4B-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2047.6	2059.4	2056.5	2051.6	2050.6	2052.5	2055.5	2058.4	2057.4	2062.3	2070.2
5°	2041.8	2053.5	2052.5	2052.5	2056.5	2064.3	2069.2	2074.1	2069.2	2075.1	2085.9
7.5°	2045.7	2054.5	2058.4	2062.3	2072.1	2086.8	2098.6	2109.4	2103.5	2110.4	2124.1
10°	2095.7	2102.5	2106.4	2106.4	2113.3	2130.0	2141.7	2161.3	2156.4	2167.2	2184.9
12.5°	2186.8	2193.7	2193.7	2189.8	2194.7	2205.4	2209.4	2230.9	2222.1	2239.8	2257.4
15°	2298.6	2312.3	2301.5	2294.6	2296.6	2307.4	2306.4	2323.1	2314.2	2328.9	2344.6
17.5°	2422.1	2439.7	2422.1	2421.1	2417.2	2428.9	2429.9	2444.6	2428.9	2439.7	2450.5
20°	2568.1	2592.6	2577.9	2582.8	2574.0	2578.9	2583.8	2605.4	2580.9	2588.7	2585.8
22.5°	2774.0	2803.4	2787.7	2806.3	2800.4	2796.5	2795.5	2833.8	2795.5	2798.5	2770.0
25°	3073.9	3109.2	3081.7	3107.2	3107.2	3120.0	3134.7	3183.7	3120.0	3101.3	3027.8
27.5°	3516.9	3552.2	3498.3	3514.0	3509.1	3540.5	3524.8	3646.3	3577.7	3547.3	3399.3
30°	4050.2	4112.9	4011.0	4007.0	4002.1	4052.1	4074.7	4155.1	4085.5	4055.1	3876.7
32.5°	4626.5	4692.2	4570.7	4535.4	4516.8	4547.1	4528.5	4593.2	4545.2	4498.1	4277.6
35°	5236.2	5300.9	5185.2	5116.6	5042.1	4978.4	4911.8	4928.4	4883.3	4811.8	4583.4
37.5°	5812.6	5931.2	5808.7	5735.1	5597.9	5473.4	5287.2	5209.7	5167.6	5101.9	4871.6
40°	6399.7	6467.3	6374.2	6311.5	6162.5	5967.4	5669.5	5505.8	5448.9	5385.2	5190.1
42.5°	6832.0	6896.7	6846.7	6803.6	6686.9	6460.5	6075.3	5870.4	5788.1	5716.5	5550.9
45°	7175.0	7223.1	7191.7	7207.4	7157.4	6937.8	6495.8	6261.5	6176.2	6089.0	5958.6
47.5°	7313.3	7364.2	7414.2	7507.3	7592.6	7430.9	6947.6	6684.9	6594.8	6505.6	6377.2
50°	7297.6	7349.5	7494.6	7692.6	7957.2	7903.3	7424.0	7135.8	7052.5	6950.6	6832.0
52.5°	7172.1	7230.9	7417.2	7746.5	8168.0	8257.2	7909.2	7601.4	7523.0	7401.5	7282.9
55°	6842.8	6878.0	7157.4	7624.0	8218.0	8504.2	8384.6	8097.4	8019.0	7849.4	7720.0
57.5°	6232.1	6283.1	6689.8	7293.6	8092.5	8671.8	8802.2	8618.9	8543.4	8299.3	8164.1
60°	5435.2	5516.6	5982.1	6738.9	7773.0	8670.8	9181.5	9131.5	9068.8	8742.4	8601.2
62.5°	4533.4	4627.5	5075.5	5954.7	7214.3	8424.8	9418.7	9560.8	9528.5	9151.1	8970.8
65°	3481.7	3546.4	3992.3	4940.2	6344.8	7896.5	9446.2	9853.9	9859.8	9461.8	9163.9
67.5°	2318.2	2504.4	2891.6	3707.1	5180.3	7032.9	9205.0	9902.0	9958.8	9568.7	9066.8
70°	1131.1	1376.2	1755.5	2409.3	3707.1	5708.7	8574.8	9507.9	9634.4	9257.0	8488.5
72.5°	469.5	548.9	755.7	1189.0	2128.0	3852.2	7308.4	8439.5	8673.8	8202.3	7136.8
75°	316.6	343.1	432.3	609.7	969.4	1899.6	5270.5	6292.9	6670.2	6194.8	5063.7
77.5°	244.1	260.7	314.6	426.4	576.4	718.5	2821.0	3792.4	3987.4	3691.4	2634.8
80°	192.1	204.9	235.2	310.7	408.7	384.2	961.6	1718.3	1831.0	1536.0	846.9
82.5°	166.6	171.5	168.6	210.7	271.5	224.5	315.6	634.2	699.9	507.7	276.4
85°	120.6	134.3	140.2	130.4	144.1	113.7	129.4	224.5	247.0	220.5	155.9
87.5°	49.0	72.5	89.2	84.3	52.9	32.3	40.2	65.7	75.5	82.3	51.0
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: P940927

CATALOG NUMBER: GALN-SB4B-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2071.2	2078.0	2082.9	2088.8	2092.7	2098.6	2110.4	2117.2	2118.2	2123.1	2122.1
5°	2089.8	2099.6	2110.4	2126.0	2143.7	2158.4	2180.9	2196.6	2202.5	2207.4	2206.4
7.5°	2130.0	2143.7	2163.3	2190.7	2216.2	2235.8	2263.3	2281.9	2300.5	2307.4	2308.4
10°	2189.8	2209.4	2237.8	2275.0	2302.5	2328.0	2356.4	2372.1	2390.7	2398.5	2402.5
12.5°	2264.3	2284.8	2322.1	2374.0	2399.5	2417.2	2427.0	2423.0	2427.0	2433.8	2435.8
15°	2349.5	2372.1	2414.2	2470.1	2487.7	2472.1	2450.5	2430.9	2427.9	2429.9	2436.8
17.5°	2450.5	2467.2	2516.2	2563.2	2550.5	2485.8	2438.7	2407.4	2391.7	2386.8	2393.6
20°	2591.6	2591.6	2631.8	2661.2	2576.0	2466.2	2392.7	2341.7	2309.3	2295.6	2292.7
22.5°	2763.2	2747.5	2773.0	2752.4	2571.1	2411.3	2309.3	2221.1	2172.1	2152.5	2149.6
25°	2980.8	2962.2	2955.3	2827.9	2535.8	2324.0	2158.4	2051.6	2008.4	1997.6	1999.6
27.5°	3309.1	3262.1	3172.9	2869.0	2471.1	2186.8	1982.0	1883.0	1858.5	1859.4	1862.4
30°	3746.3	3652.2	3433.6	2875.9	2365.2	1992.7	1801.6	1731.0	1719.3	1724.2	1740.8
32.5°	4151.1	4061.9	3700.2	2844.5	2202.5	1802.6	1639.9	1592.8	1575.2	1581.1	1588.9
35°	4468.7	4444.2	3947.3	2800.4	2002.5	1624.2	1494.8	1454.6	1420.3	1412.5	1418.3
37.5°	4768.7	4758.9	4132.5	2738.7	1804.5	1497.7	1378.2	1325.2	1275.2	1247.8	1248.8
40°	5098.0	5088.2	4254.1	2643.6	1629.1	1388.0	1273.3	1203.7	1141.9	1091.9	1096.8
42.5°	5468.5	5410.7	4311.9	2507.3	1480.1	1294.8	1188.0	1093.9	1012.5	966.5	969.4
45°	5873.3	5743.0	4310.9	2333.9	1354.6	1209.6	1096.8	963.5	888.1	844.9	843.0
47.5°	6302.7	6060.6	4258.0	2141.7	1233.1	1115.5	955.7	853.8	803.8	777.3	771.4
50°	6745.7	6357.6	4167.8	1921.2	1108.6	1008.6	867.5	797.9	759.7	735.1	726.3
52.5°	7162.3	6627.1	4059.0	1671.2	982.2	904.7	828.3	774.4	734.2	706.7	695.0
55°	7549.5	6859.4	3905.1	1415.4	879.2	835.1	809.6	764.6	718.5	686.1	673.4
57.5°	7893.5	7010.4	3639.5	1175.3	805.7	787.1	790.0	747.9	695.0	667.5	649.9
60°	8179.7	7121.1	3246.4	952.8	745.9	740.0	759.7	716.5	654.8	623.4	609.7
62.5°	8351.3	7119.2	2764.2	780.2	695.0	696.9	719.5	677.3	614.6	585.2	576.4
65°	8336.6	6944.7	2234.9	667.5	646.0	647.9	677.3	634.2	581.3	563.6	562.6
67.5°	8041.5	6519.3	1714.4	594.0	592.0	600.9	635.2	604.8	560.7	558.7	561.7
70°	7242.7	5636.1	1235.0	535.2	536.2	548.9	594.0	586.2	549.9	553.8	552.8
72.5°	5807.7	4297.2	829.2	473.4	474.4	495.0	554.8	571.5	539.1	591.1	598.9
75°	3867.9	2679.9	533.2	407.8	408.7	435.2	520.5	543.0	509.7	589.1	594.0
77.5°	1858.5	1204.7	386.2	343.1	343.1	367.6	449.9	486.2	434.2	457.8	419.5
80°	642.0	452.9	303.9	276.4	270.5	287.2	379.3	421.5	374.4	345.0	323.5
82.5°	252.9	235.2	244.1	214.7	195.1	205.8	295.0	348.0	275.4	249.0	248.0
85°	145.1	152.9	172.5	142.1	112.7	126.4	216.6	250.0	207.8	183.3	187.2
87.5°	39.2	53.9	79.4	73.5	51.0	53.9	102.9	138.2	119.6	92.1	95.1
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)