

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: P939917

Luminaire Tested: **GALN-SB2D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939917
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-SB2D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18888 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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

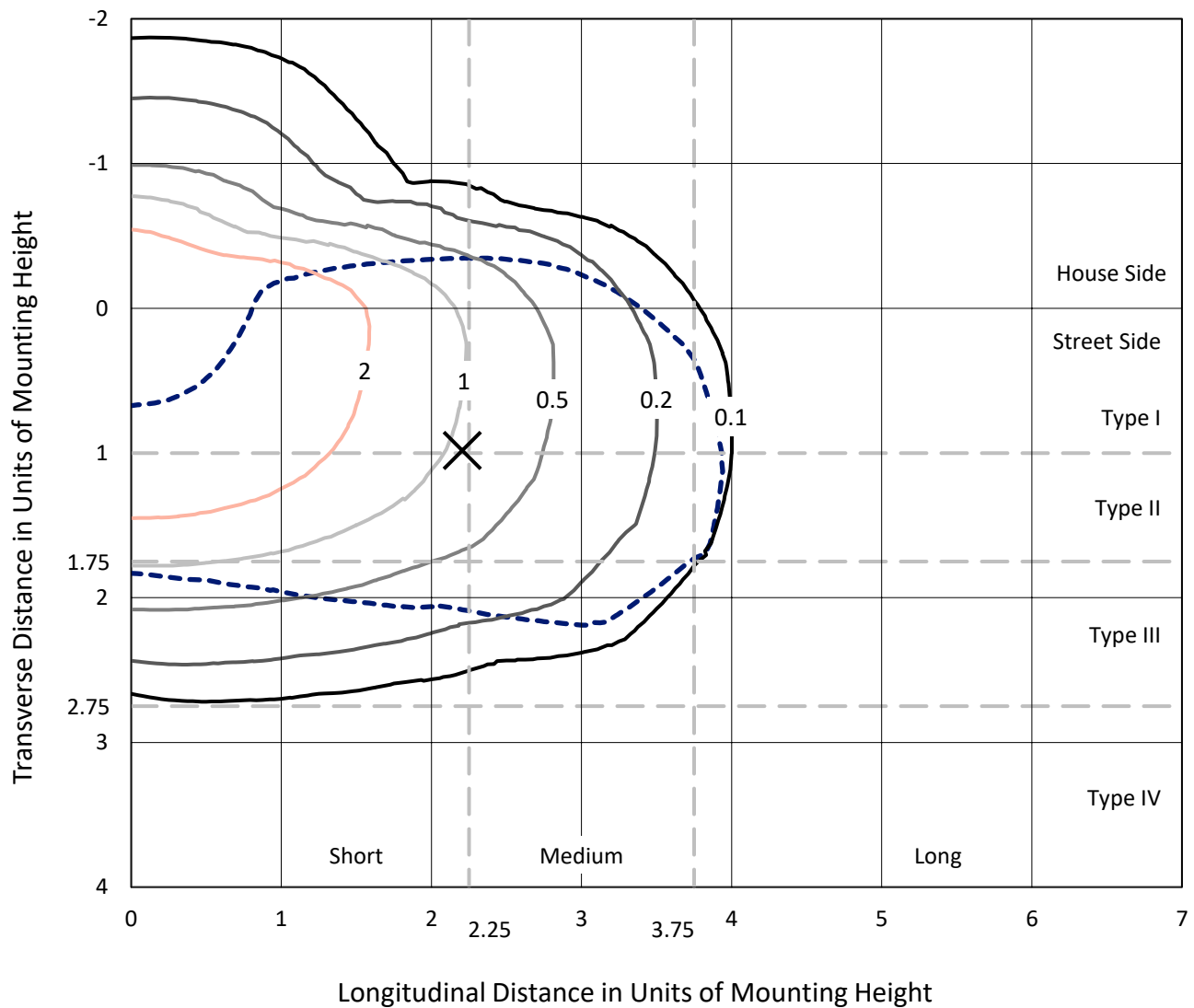


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

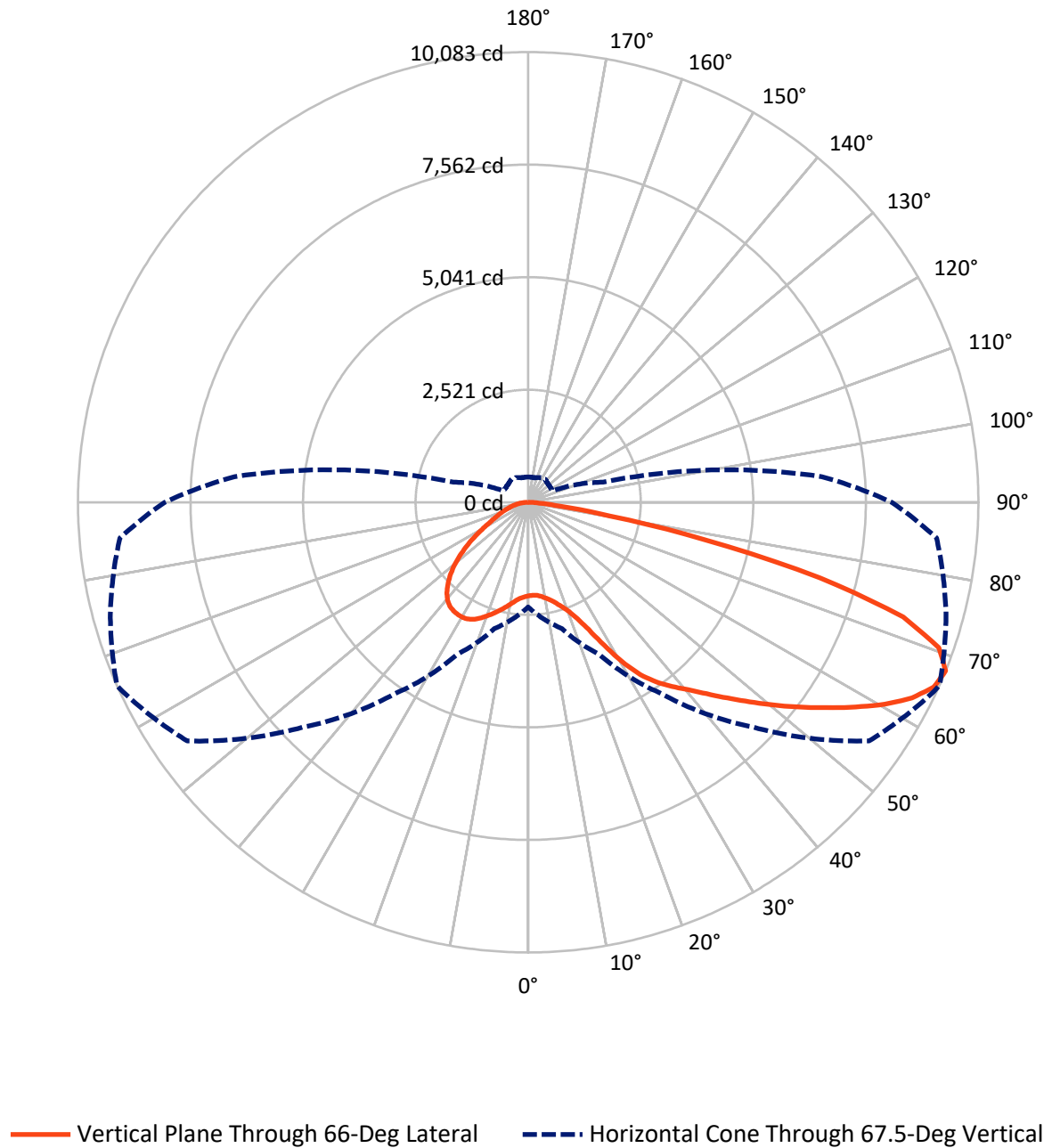


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4696.4	0.0	4696.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14191.6	0.0	14191.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	18888.0	0.0	18888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.1
10°-20°	686.2	3.6
20°-30°	1322.7	7.0
30°-40°	2319.1	12.3
40°-50°	3447.8	18.3
50°-60°	4370.4	23.1
60°-70°	4276.3	22.6
70°-80°	2039.8	10.8
80°-90°	218.0	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°	18888.0	100.0
0°-180°	18888.0	100.0

Coefficient of Utilization



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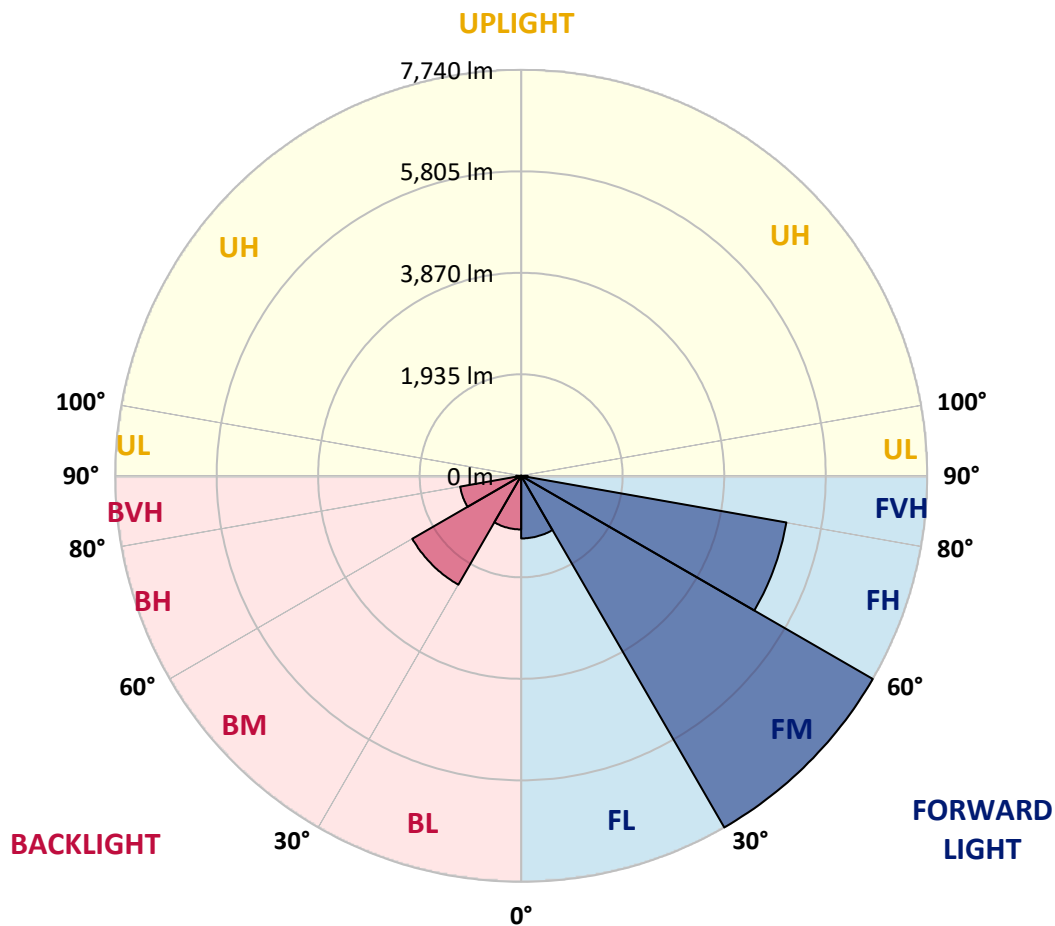
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1193.5	6.3			
FM	(30°-60°)	7740.1	41.0			
FH	(60°-80°)	5134.3	27.2			G3/7500
FVH	(80°-90°)	123.6	0.7			G2/225
BL	(0°-30°)	1023.1	5.4	B3/2500		
BM	(30°-60°)	2397.1	12.7	B2/2500		
BH	(60°-80°)	1181.9	6.3	B3/2500		G3/2500
BVH	(80°-90°)	94.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	2073.1	2085.0	2082.0	2077.1	2076.1	2078.1	2081.0	2084.0	2083.0	2088.0	2095.9
5°	2067.1	2079.1	2078.1	2078.1	2082.0	2090.0	2094.9	2099.9	2094.9	2100.9	2111.8
7.5°	2071.1	2080.0	2084.0	2088.0	2097.9	2112.8	2124.7	2135.6	2129.7	2136.6	2150.5
10°	2121.7	2128.7	2132.6	2132.6	2139.6	2156.5	2168.4	2188.2	2183.3	2194.2	2212.0
12.5°	2214.0	2221.0	2221.0	2217.0	2222.0	2232.9	2236.8	2258.7	2249.7	2267.6	2285.5
15°	2327.1	2341.0	2330.1	2323.2	2325.2	2336.1	2335.1	2352.0	2343.0	2357.9	2373.8
17.5°	2452.2	2470.1	2452.2	2451.2	2447.2	2459.1	2460.1	2475.0	2459.1	2470.1	2481.0
20°	2600.1	2624.9	2610.0	2614.9	2606.0	2611.0	2615.9	2637.8	2613.0	2620.9	2617.9
22.5°	2808.5	2838.2	2822.3	2841.2	2835.2	2831.3	2830.3	2869.0	2830.3	2833.3	2804.5
25°	3112.1	3147.9	3120.1	3145.9	3145.9	3158.8	3173.7	3223.3	3158.8	3139.9	3065.5
27.5°	3560.7	3596.4	3541.8	3557.7	3552.7	3584.5	3568.6	3691.7	3622.2	3591.4	3441.6
30°	4100.5	4164.1	4060.8	4056.9	4051.9	4102.5	4125.4	4206.7	4136.3	4105.5	3924.9
32.5°	4684.1	4750.6	4627.5	4591.8	4572.9	4603.7	4584.8	4650.3	4601.7	4554.1	4330.8
35°	5301.3	5366.8	5249.7	5180.3	5104.8	5040.3	4972.9	4989.7	4944.1	4871.6	4640.4
37.5°	5884.9	6004.9	5880.9	5806.5	5667.5	5541.5	5352.9	5274.5	5231.9	5165.4	4932.2
40°	6479.3	6547.8	6453.5	6390.0	6239.1	6041.7	5740.0	5574.2	5516.7	5452.2	5254.7
42.5°	6916.9	6982.4	6931.8	6888.2	6770.1	6540.8	6150.8	5943.4	5860.0	5787.6	5619.9
45°	7264.3	7312.9	7281.1	7297.0	7246.4	7024.1	6576.5	6339.4	6253.0	6164.7	6032.7
47.5°	7404.2	7455.8	7506.4	7600.7	7687.0	7523.3	7034.0	6768.1	6676.8	6586.5	6456.5
50°	7388.3	7440.9	7587.8	7788.3	8056.2	8001.6	7516.3	7224.6	7140.2	7037.0	6916.9
52.5°	7261.3	7320.8	7509.4	7842.8	8269.6	8359.9	8007.6	7696.0	7616.6	7493.5	7373.4
55°	6927.9	6963.6	7246.4	7718.8	8320.2	8609.9	8488.9	8198.1	8118.7	7947.0	7816.0
57.5°	6309.6	6361.2	6773.0	7384.4	8193.1	8779.6	8911.6	8726.1	8649.6	8402.5	8265.6
60°	5502.8	5585.2	6056.5	6822.7	7869.6	8778.7	9295.7	9245.1	9181.6	8851.1	8708.2
62.5°	4589.8	4685.1	5138.6	6028.8	7304.0	8529.6	9535.8	9679.7	9647.0	9264.9	9082.3
65°	3525.0	3590.5	4042.0	5001.6	6423.7	7994.7	9563.6	9976.5	9982.4	9579.5	9277.8
67.5°	2347.0	2535.5	2927.5	3753.2	5244.8	7120.4	9319.5	10025.1	10082.7	9687.7	9179.6
70°	1145.2	1393.3	1777.4	2439.3	3753.2	5779.7	8681.4	9626.2	9754.2	9372.1	8594.1
72.5°	475.4	555.7	765.1	1203.8	2154.5	3900.1	7399.2	8544.5	8781.6	8304.3	7225.6
75°	320.5	347.3	437.6	617.3	981.5	1923.2	5336.1	6371.1	6753.2	6271.9	5126.7
77.5°	247.1	264.0	318.6	431.7	583.5	727.4	2856.1	3839.5	4037.0	3737.3	2667.5
80°	194.5	207.4	238.2	314.6	413.8	389.0	973.5	1739.7	1853.8	1555.1	857.4
82.5°	168.7	173.7	170.7	213.4	274.9	227.3	319.5	642.1	708.6	514.1	279.9
85°	122.1	136.0	141.9	132.0	145.9	115.1	131.0	227.3	250.1	223.3	157.8
87.5°	49.6	73.4	90.3	85.3	53.6	32.7	40.7	66.5	76.4	83.4	51.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	2096.9	2103.9	2108.8	2114.8	2118.7	2124.7	2136.6	2143.6	2144.5	2149.5	2148.5
5°	2115.8	2125.7	2136.6	2152.5	2170.4	2185.2	2208.1	2223.9	2229.9	2234.9	2233.9
7.5°	2156.5	2170.4	2190.2	2218.0	2243.8	2263.6	2291.4	2310.3	2329.1	2336.1	2337.1
10°	2217.0	2236.8	2265.6	2303.3	2331.1	2356.9	2385.7	2401.6	2420.4	2428.4	2432.3
12.5°	2292.4	2313.3	2351.0	2403.6	2429.4	2447.2	2457.2	2453.2	2457.2	2464.1	2466.1
15°	2378.8	2401.6	2444.2	2500.8	2518.7	2502.8	2481.0	2461.1	2458.1	2460.1	2467.1
17.5°	2481.0	2497.8	2547.5	2595.1	2582.2	2516.7	2469.1	2437.3	2421.4	2416.5	2423.4
20°	2623.9	2623.9	2664.6	2694.3	2608.0	2496.8	2422.4	2370.8	2338.1	2324.2	2321.2
22.5°	2797.5	2781.7	2807.5	2786.6	2603.0	2441.3	2338.1	2248.7	2199.1	2179.3	2176.3
25°	3017.8	2999.0	2992.0	2863.0	2567.3	2352.9	2185.2	2077.1	2033.4	2022.5	2024.5
27.5°	3350.3	3302.7	3212.4	2904.7	2501.8	2214.0	2006.6	1906.4	1881.6	1882.6	1885.5
30°	3792.9	3697.6	3476.3	2911.7	2394.6	2017.5	1824.0	1752.6	1740.6	1745.6	1762.5
32.5°	4202.8	4112.5	3746.3	2879.9	2229.9	1825.0	1660.3	1612.6	1594.8	1600.7	1608.7
35°	4524.3	4499.5	3996.3	2835.2	2027.4	1644.4	1513.4	1472.7	1438.0	1430.0	1436.0
37.5°	4828.0	4818.0	4183.9	2772.7	1827.0	1516.4	1395.3	1341.7	1291.1	1263.3	1264.3
40°	5161.4	5151.5	4307.0	2676.5	1649.3	1405.2	1289.1	1218.7	1156.1	1105.5	1110.5
42.5°	5536.5	5478.0	4365.5	2538.5	1498.5	1310.9	1202.8	1107.5	1025.1	978.5	981.5
45°	5946.4	5814.4	4364.5	2362.9	1371.5	1224.6	1110.5	975.5	899.1	855.4	853.5
47.5°	6381.0	6135.9	4310.9	2168.4	1248.4	1129.3	967.6	864.4	813.8	787.0	781.0
50°	6829.6	6436.6	4219.6	1945.1	1122.4	1021.2	878.3	807.8	769.1	744.3	735.4
52.5°	7251.4	6709.5	4109.5	1692.0	994.4	916.0	838.6	784.0	743.3	715.5	703.6
55°	7643.4	6944.7	3953.7	1433.0	890.2	845.5	819.7	774.1	727.4	694.7	681.8
57.5°	7991.7	7097.6	3684.7	1189.9	815.7	796.9	799.9	757.2	703.6	675.8	658.0
60°	8281.5	7209.7	3286.8	964.6	755.2	749.3	769.1	725.4	662.9	631.2	617.3
62.5°	8455.1	7207.7	2798.5	789.9	703.6	705.6	728.4	685.7	622.2	592.5	583.5
65°	8440.3	7031.1	2262.6	675.8	654.0	656.0	685.7	642.1	588.5	570.6	569.6
67.5°	8141.5	6600.4	1735.7	601.4	599.4	608.3	643.1	612.3	567.6	565.7	568.6
70°	7332.7	5706.2	1250.4	541.8	542.8	555.7	601.4	593.4	556.7	560.7	559.7
72.5°	5879.9	4350.6	839.6	479.3	480.3	501.2	561.7	578.6	545.8	598.4	606.3
75°	3916.0	2713.2	539.9	412.8	413.8	440.6	527.0	549.8	516.0	596.4	601.4
77.5°	1881.6	1219.6	391.0	347.3	347.3	372.1	455.5	492.2	439.6	463.4	424.7
80°	650.0	458.5	307.6	279.9	273.9	290.8	384.1	426.7	379.1	349.3	327.5
82.5°	256.0	238.2	247.1	217.3	197.5	208.4	298.7	352.3	278.9	252.1	251.1
85°	146.9	154.8	174.7	143.9	114.1	128.0	219.3	253.1	210.4	185.6	189.5
87.5°	39.7	54.6	80.4	74.4	51.6	54.6	104.2	139.9	121.1	93.3	96.3
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)