

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: P947345

Luminaire Tested: **GALN-SB2D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17036 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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



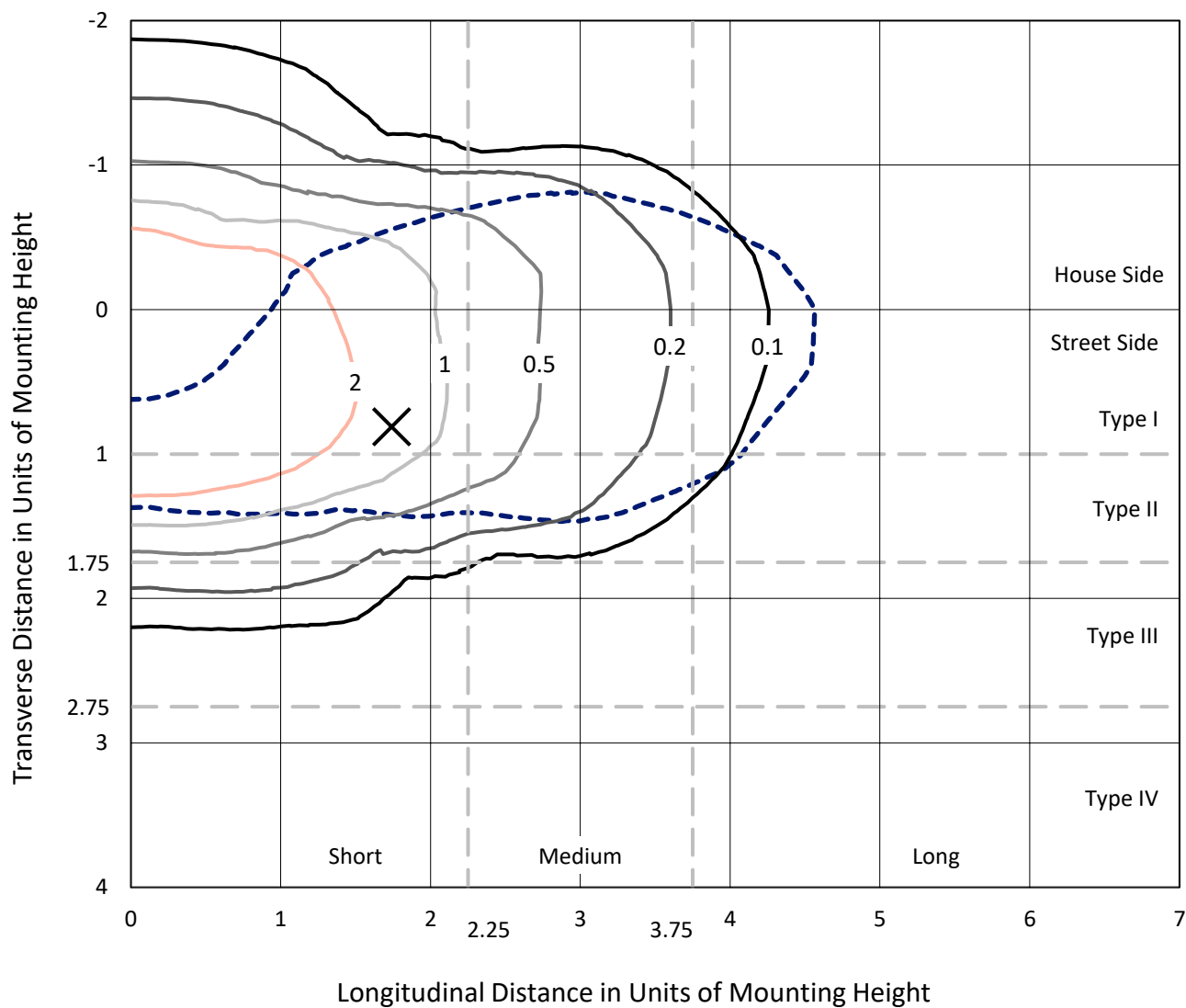
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Iso-Footcandle Lines of Horizontal Illumination

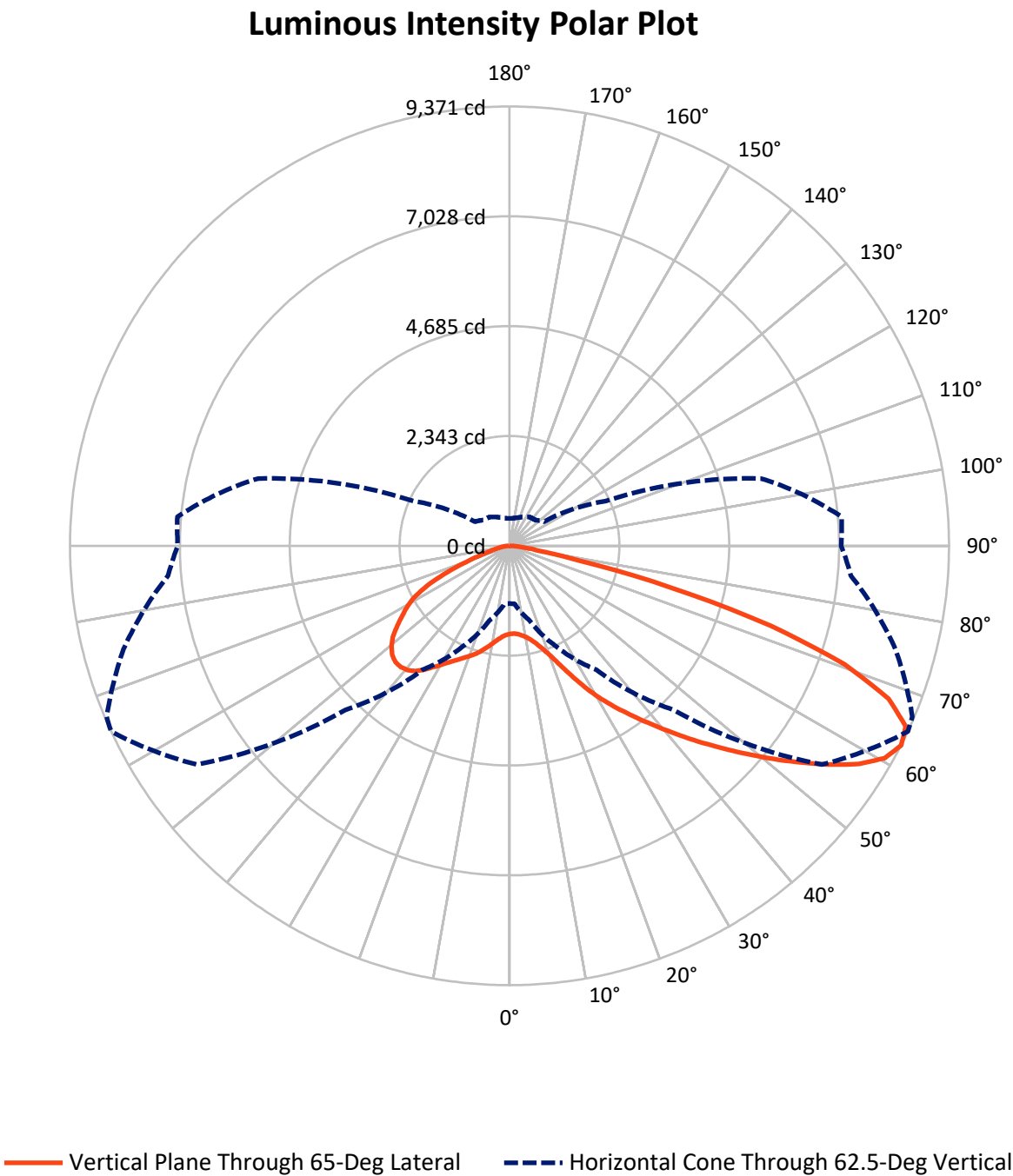
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5375.8	0.0	5375.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11660.2	0.0	11660.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	17036.0	0.0	17036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.1
10°-20°	634.7	3.7
20°-30°	1286.9	7.6
30°-40°	2227.0	13.1
40°-50°	3370.1	19.8
50°-60°	3951.2	23.2
60°-70°	3312.6	19.4
70°-80°	1828.8	10.7
80°-90°	237.6	1.4
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°	17036.0	100.0
0°-180°	17036.0	100.0

Coefficient of Utilization



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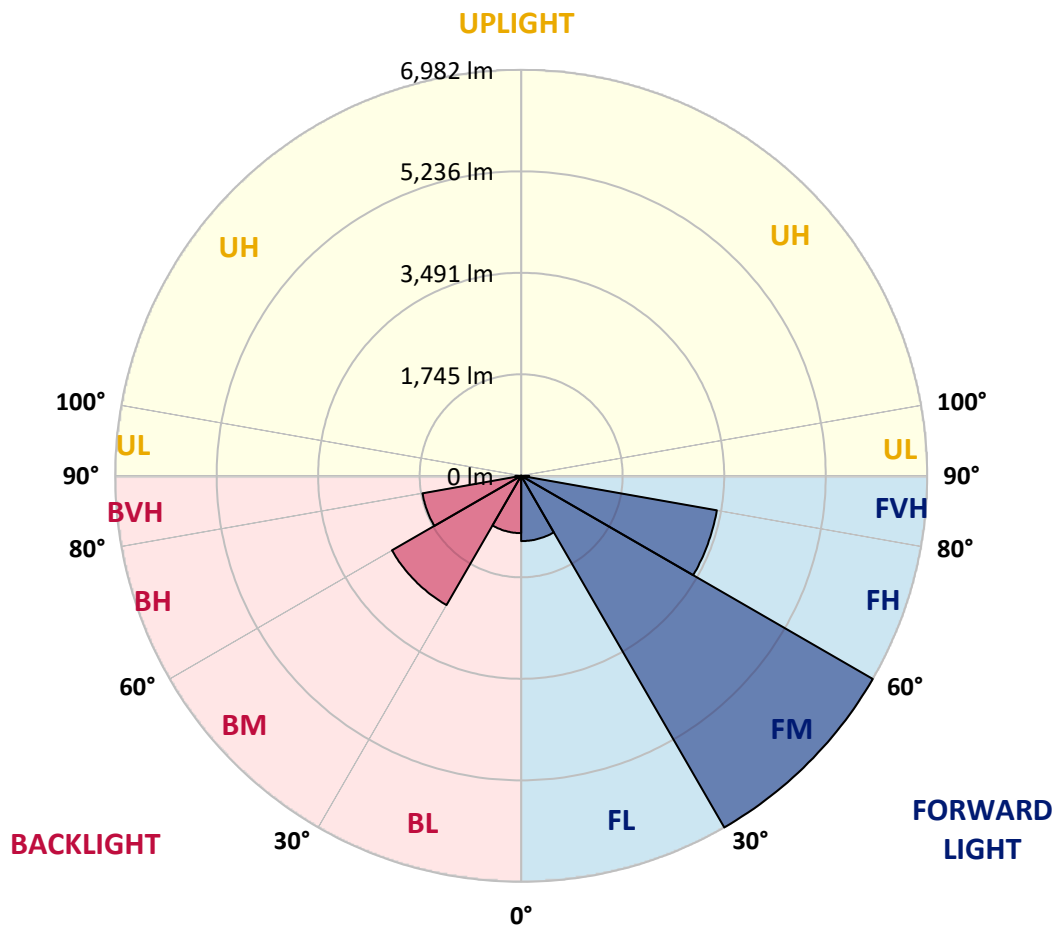
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1122.9	6.6			
FM	(30°-60°)	6981.9	41.0			
FH	(60°-80°)	3416.9	20.1			G2/5000
FVH	(80°-90°)	138.5	0.8			G2/225
BL	(0°-30°)	985.9	5.8	B2/1000		
BM	(30°-60°)	2566.3	15.1	B3/5000		
BH	(60°-80°)	1724.5	10.1	B3/2500		G3/2500
BVH	(80°-90°)	99.1	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1864.9	1859.6	1864.0	1864.0	1865.8	1864.9	1871.1	1872.9	1875.5	1880.8	1880.8
5°	1846.4	1845.5	1853.4	1860.5	1867.6	1873.8	1881.7	1893.2	1895.0	1901.2	1909.1
7.5°	1840.2	1834.9	1847.2	1856.1	1872.9	1887.9	1909.1	1928.6	1936.5	1939.2	1954.2
10°	1887.9	1879.1	1890.6	1895.9	1910.0	1925.0	1949.8	1980.7	1989.5	2000.1	2016.9
12.5°	1969.2	1959.5	1976.3	1984.2	1997.5	2010.8	2027.5	2057.6	2062.0	2081.5	2097.4
15°	2080.6	2069.1	2079.7	2089.4	2111.5	2123.9	2140.7	2169.8	2169.8	2184.9	2196.4
17.5°	2231.7	2216.7	2224.6	2228.2	2242.3	2260.9	2289.2	2314.8	2328.1	2322.8	2306.8
20°	2457.1	2438.5	2438.5	2420.9	2415.6	2430.6	2467.7	2503.1	2517.2	2489.8	2450.9
22.5°	2795.6	2769.1	2754.1	2694.0	2670.1	2671.9	2709.0	2752.3	2763.8	2715.2	2627.7
25°	3226.0	3184.5	3164.2	3075.8	3021.9	2975.0	3004.2	3059.9	3075.8	3015.7	2874.3
27.5°	3656.5	3659.1	3639.7	3533.6	3444.4	3358.6	3343.6	3401.9	3418.7	3350.7	3175.7
30°	4260.1	4197.4	4160.3	4033.0	3905.7	3785.5	3723.7	3747.5	3751.9	3670.6	3467.3
32.5°	4780.7	4764.8	4685.3	4573.9	4410.4	4222.1	4118.7	4080.7	4073.7	3957.9	3716.6
35°	5373.8	5365.0	5281.0	5148.4	4971.6	4710.0	4523.5	4414.8	4406.0	4243.4	3963.2
37.5°	5976.6	5976.6	5894.4	5749.4	5566.5	5239.5	4955.7	4783.4	4755.1	4543.0	4214.2
40°	6457.4	6428.2	6443.3	6382.3	6172.8	5825.4	5435.7	5185.5	5147.5	4893.0	4481.1
42.5°	6730.5	6720.8	6810.9	6879.0	6793.3	6515.7	5964.2	5621.3	5568.2	5278.3	4788.7
45°	6791.5	6780.9	6941.7	7191.0	7311.2	7197.2	6538.7	6080.0	6015.5	5681.4	5118.4
47.5°	6651.0	6629.7	6865.7	7259.0	7644.4	7845.0	7160.9	6577.6	6483.9	6073.8	5456.9
50°	6228.5	6208.1	6565.2	7087.6	7756.7	8285.2	7836.2	7105.3	6962.1	6494.5	5798.9
52.5°	5310.2	5319.9	5879.4	6597.0	7609.0	8559.2	8417.8	7661.2	7488.8	6924.9	6119.8
55°	4136.4	4157.6	4845.3	5635.4	7018.6	8517.6	8814.6	8233.9	8062.5	7329.8	6451.2
57.5°	2961.8	3055.5	3699.8	4482.0	5884.7	7859.2	8901.2	8778.4	8612.2	7771.7	6775.6
60°	1919.7	1936.5	2599.4	3387.8	4481.1	6689.0	8725.3	9191.1	9061.2	8222.4	7046.9
62.5°	1230.3	1241.8	1645.7	2369.6	3225.2	4948.7	8133.2	9370.6	9330.8	8520.3	7307.7
65°	904.2	895.3	1105.7	1566.2	2172.5	3051.9	6983.3	9283.9	9362.6	8706.8	7523.3
67.5°	754.8	742.4	845.8	1084.5	1600.6	1733.2	5167.0	8720.9	9009.1	8685.6	7681.5
70°	687.6	677.0	739.8	805.2	1248.9	1160.5	2604.7	7581.6	8025.3	8444.3	7655.9
72.5°	582.5	563.9	649.6	715.0	971.3	890.0	1076.5	5823.7	6364.6	7670.9	7295.3
75°	451.6	439.3	512.6	629.3	730.1	694.7	680.6	3536.3	4126.7	5932.4	6382.3
77.5°	358.0	341.2	408.3	490.5	656.7	524.1	495.8	1522.9	2108.0	3787.3	4775.4
80°	269.6	254.5	310.2	388.0	504.7	395.1	320.8	621.3	794.6	1918.8	2401.4
82.5°	191.8	178.5	216.5	284.6	339.4	354.4	197.1	348.2	391.5	739.8	536.5
85°	122.9	114.9	145.0	178.5	215.7	228.0	120.2	182.1	199.7	304.9	223.6
87.5°	67.2	54.8	77.8	83.1	99.9	91.0	57.5	66.3	71.6	110.5	94.6
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°	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1884.4	1887.0	1895.9	1898.5	1904.7	1912.6	1918.0	1923.3	1923.3	1928.6	1928.6
5°	1910.0	1916.2	1934.7	1944.5	1960.4	1976.3	1986.0	1997.5	2004.6	2008.1	2009.9
7.5°	1959.5	1969.2	1995.7	2012.5	2039.9	2062.0	2077.0	2093.0	2096.5	2106.2	2102.7
10°	2026.7	2038.2	2068.2	2100.0	2132.7	2160.1	2174.3	2185.8	2190.2	2191.9	2187.5
12.5°	2103.6	2120.4	2159.2	2198.1	2232.6	2256.5	2260.0	2257.3	2245.0	2234.4	2234.4
15°	2198.1	2213.2	2256.5	2298.9	2332.5	2336.9	2314.8	2300.7	2285.6	2283.0	2283.0
17.5°	2311.3	2319.2	2359.0	2400.5	2403.2	2388.2	2355.5	2342.2	2328.1	2318.3	2319.2
20°	2443.0	2440.3	2468.6	2486.3	2467.7	2421.7	2372.2	2350.2	2336.0	2324.5	2325.4
22.5°	2600.3	2580.0	2576.4	2572.0	2522.5	2426.2	2359.0	2330.7	2308.6	2292.7	2298.0
25°	2829.2	2751.4	2697.5	2667.5	2556.1	2402.3	2316.6	2253.8	2212.3	2184.9	2195.5
27.5°	3115.6	2984.8	2848.6	2775.3	2556.1	2353.7	2214.0	2112.4	2044.3	2016.1	2030.2
30°	3388.7	3251.7	3051.0	2905.2	2549.9	2274.1	2048.8	1907.3	1827.8	1799.5	1816.3
32.5°	3622.0	3472.6	3265.8	3047.5	2534.9	2145.1	1843.7	1687.3	1610.4	1576.8	1593.6
35°	3838.6	3679.5	3481.5	3203.9	2495.1	1956.0	1618.3	1499.0	1413.3	1359.4	1377.0
37.5°	4060.4	3871.3	3685.6	3345.4	2423.5	1735.0	1445.1	1343.4	1242.7	1170.2	1189.7
40°	4301.7	4075.4	3904.0	3429.3	2306.0	1524.6	1310.7	1217.9	1111.0	1034.1	1049.1
42.5°	4583.6	4320.2	4147.0	3472.6	2145.1	1375.3	1223.2	1132.2	1031.5	968.7	981.1
45°	4878.0	4589.8	4368.9	3471.8	1965.7	1305.4	1195.0	1104.8	993.4	928.0	938.6
47.5°	5186.4	4871.8	4560.7	3415.2	1810.1	1315.2	1179.1	1045.6	922.7	859.1	867.9
50°	5495.8	5180.2	4746.3	3309.1	1743.8	1294.0	1119.8	962.5	817.6	760.1	763.6
52.5°	5802.5	5508.1	4906.2	3158.0	1676.7	1215.3	1043.8	854.7	774.3	734.5	734.5
55°	6110.9	5832.5	5080.4	2937.9	1508.7	1123.4	916.6	814.0	739.8	703.5	700.0
57.5°	6420.3	6207.3	5245.6	2717.8	1297.5	1010.2	846.7	764.5	705.3	674.4	669.1
60°	6742.0	6635.9	5416.2	2515.4	1088.9	865.3	795.5	724.8	664.7	630.2	627.5
62.5°	7073.4	7107.9	5549.7	2254.7	897.1	776.9	749.5	677.0	618.7	586.0	585.1
65°	7407.5	7563.1	5637.2	1893.2	727.4	692.9	700.0	624.9	565.7	537.4	536.5
67.5°	7659.4	7891.0	5612.4	1432.7	596.6	613.4	638.1	570.1	514.4	492.3	493.2
70°	7687.7	7852.1	5368.5	981.1	499.4	535.6	569.2	516.2	458.7	442.8	443.7
72.5°	7311.2	7321.8	4688.8	640.8	422.5	470.2	496.7	461.4	405.7	389.8	388.9
75°	6323.9	6055.2	3442.6	422.5	353.5	403.9	428.7	403.9	350.0	353.5	341.2
77.5°	4791.3	4288.4	2090.3	300.5	295.2	339.4	373.0	355.3	309.3	347.4	305.8
80°	2468.6	2320.1	932.5	224.5	233.3	271.3	306.7	283.7	244.8	233.3	213.0
82.5°	565.7	657.6	367.7	160.9	168.8	195.3	234.2	213.0	175.9	148.5	146.7
85°	198.0	216.5	162.6	100.8	99.0	122.0	159.1	142.3	119.3	95.5	100.8
87.5°	62.8	82.2	61.0	40.7	42.4	54.8	73.4	67.2	55.7	36.2	38.0
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)