

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: P948082

Luminaire Tested: **GALN-SB3B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16088 lumens
Efficiency: N/A
Efficacy: 147.3 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): 109.2
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



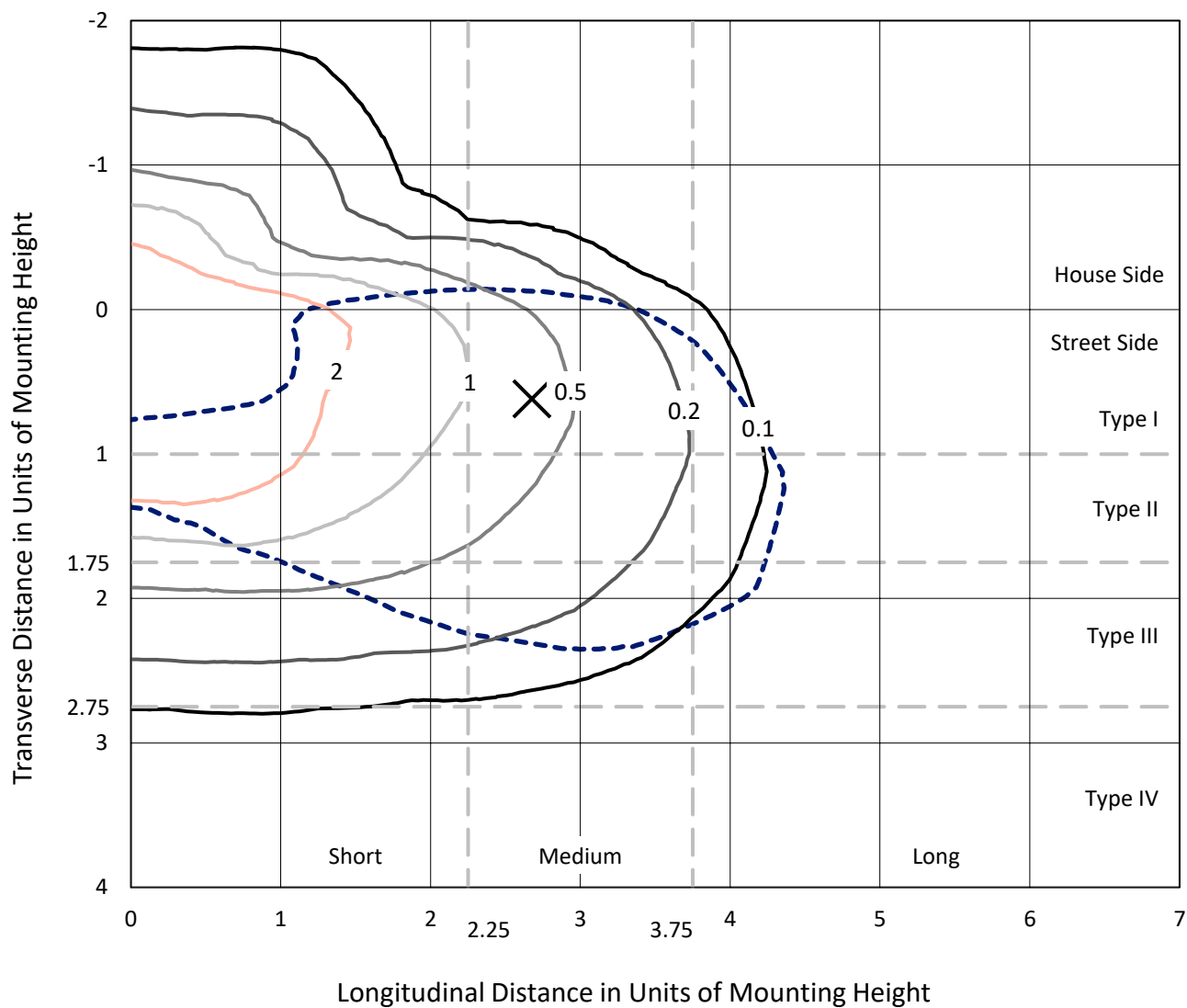
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Iso-Footcandle Lines of Horizontal Illumination

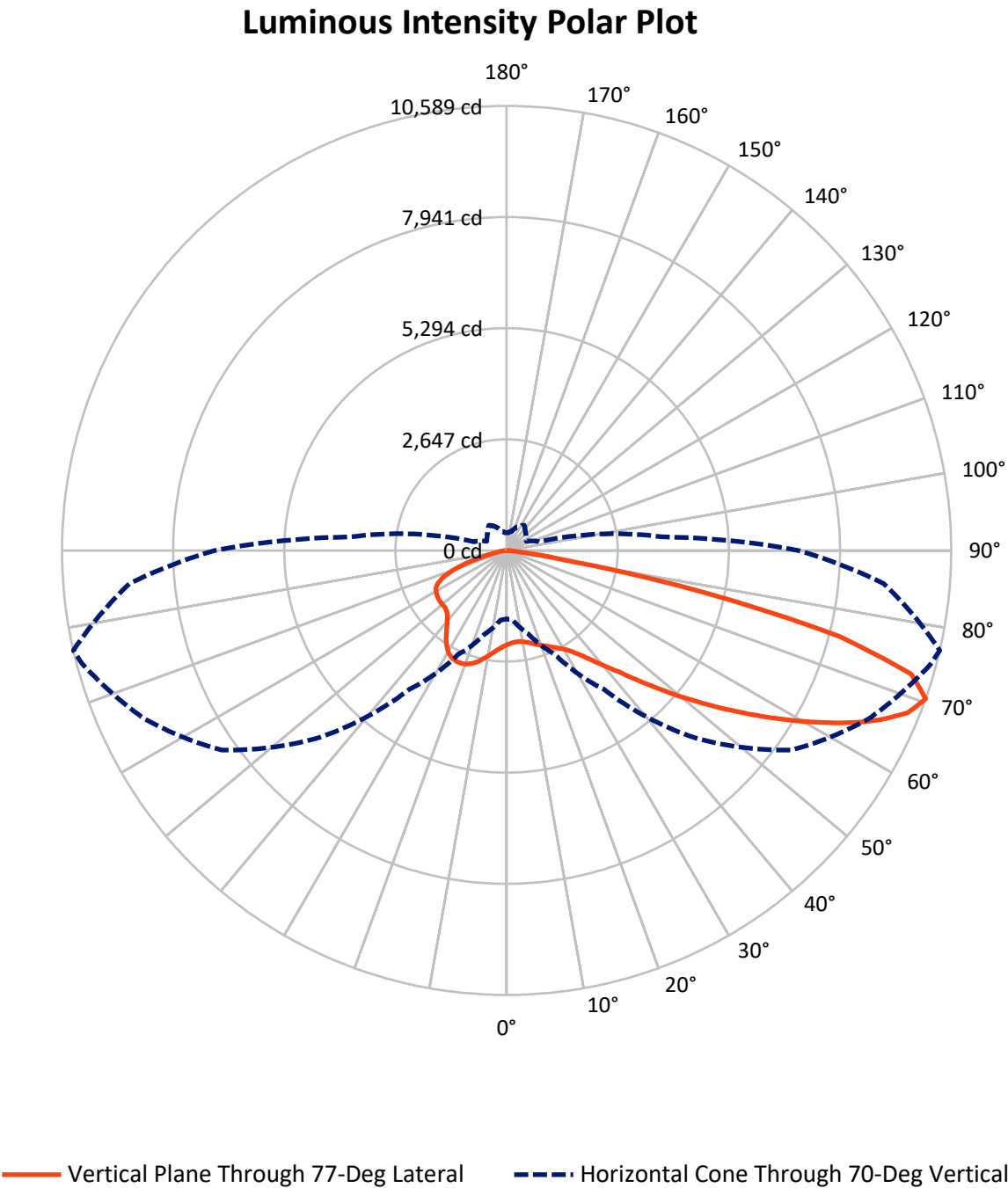
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3523.0	0.0	3523.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12565.0	0.0	12565.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	16088.0	0.0	16088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.3
10°-20°	617.8	3.8
20°-30°	1056.5	6.6
30°-40°	1699.0	10.6
40°-50°	2652.5	16.5
50°-60°	3543.2	22.0
60°-70°	3776.5	23.5
70°-80°	2324.8	14.5
80°-90°	203.7	1.3
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°	16088.0	100.0
0°-180°	16088.0	100.0

Coefficient of Utilization



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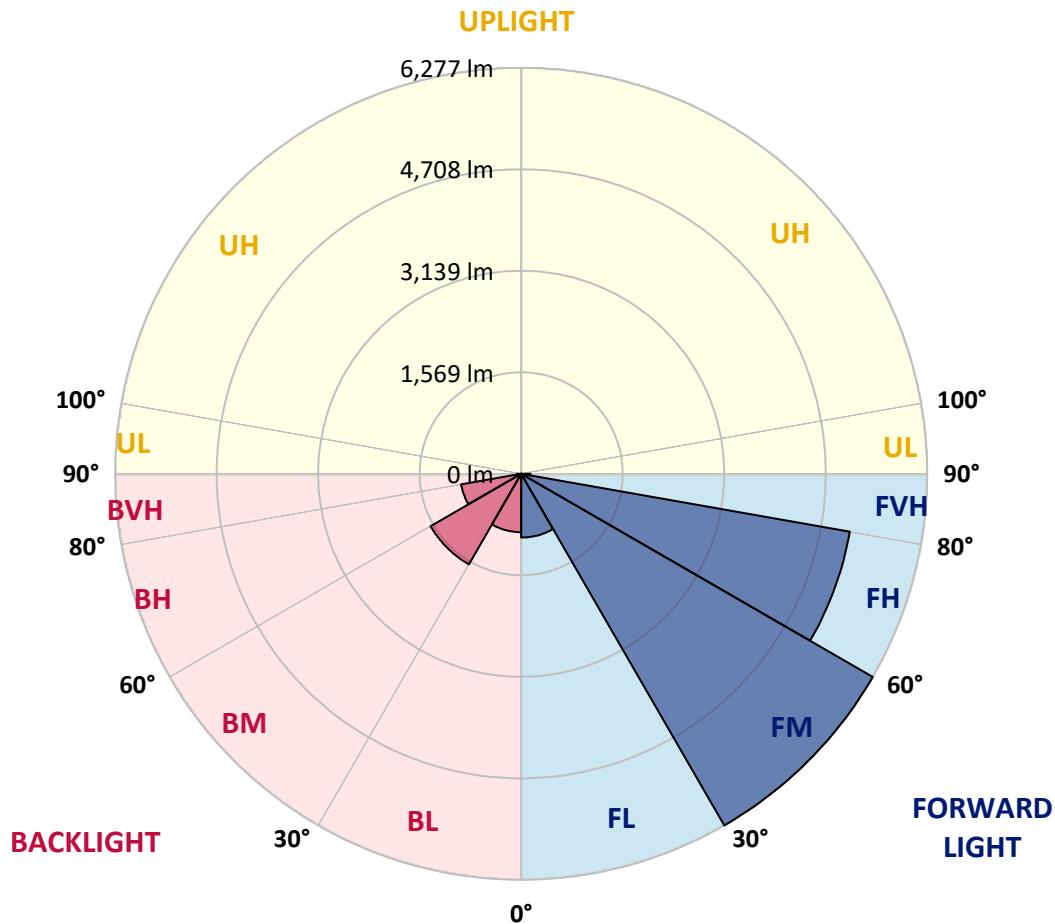
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.6	6.1			
FM	(30°-60°)	6277.2	39.0			
FH	(60°-80°)	5159.7	32.1			G3/7500
FVH	(80°-90°)	142.4	0.9			G2/225
BL	(0°-30°)	902.7	5.6	B2/1000		
BM	(30°-60°)	1617.5	10.1	B2/2500		
BH	(60°-80°)	941.6	5.9	B2/1000		G2/1000
BVH	(80°-90°)	61.3	0.4			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4
2.5°	2068.9	2068.1	2078.8	2082.1	2101.9	2115.9	2142.3	2170.3	2206.5	2210.6	2232.9
5°	1949.5	1949.5	1961.8	1975.0	2000.5	2028.5	2068.9	2117.5	2180.2	2190.0	2245.2
7.5°	1848.1	1854.7	1865.4	1891.0	1920.6	1961.0	2022.8	2092.0	2174.4	2190.0	2279.0
10°	1766.5	1774.0	1787.1	1807.7	1852.2	1908.3	1989.0	2078.0	2188.4	2213.1	2328.5
12.5°	1741.0	1748.4	1755.8	1771.5	1812.7	1878.6	1975.0	2084.6	2222.2	2246.9	2396.0
15°	1800.3	1809.4	1803.6	1799.5	1820.9	1881.1	1981.6	2108.5	2264.2	2299.6	2479.2
17.5°	1937.1	1940.4	1927.2	1888.5	1885.2	1917.3	2012.9	2141.4	2316.9	2355.7	2563.3
20°	2157.9	2152.1	2125.0	2048.3	2004.7	1998.1	2066.5	2190.9	2371.3	2412.5	2653.9
22.5°	2457.8	2451.2	2396.9	2275.7	2178.5	2114.2	2143.9	2255.1	2432.3	2478.4	2742.1
25°	2831.9	2822.8	2742.9	2578.1	2427.3	2268.3	2249.4	2340.0	2507.3	2550.1	2834.4
27.5°	3268.6	3261.2	3174.7	2957.1	2739.6	2479.2	2380.4	2439.7	2585.5	2634.1	2938.2
30°	3738.2	3759.7	3606.4	3372.4	3097.2	2754.4	2556.7	2562.5	2686.9	2730.5	3064.2
32.5°	4290.3	4327.4	4142.8	3846.2	3470.5	3053.5	2779.2	2733.8	2834.4	2870.6	3223.3
35°	4837.4	4879.4	4726.1	4398.2	3965.6	3406.2	3011.5	2930.8	3030.5	3070.0	3434.2
37.5°	5310.3	5366.3	5287.2	5002.2	4495.4	3831.3	3314.7	3162.3	3271.9	3321.3	3717.6
40°	5683.6	5769.3	5763.5	5585.5	5120.0	4347.1	3699.5	3448.2	3571.8	3625.4	4061.2
42.5°	5986.8	6060.9	6125.2	6116.1	5771.7	4933.0	4151.9	3819.8	3913.7	3975.5	4447.6
45°	6196.1	6275.2	6413.6	6562.7	6398.7	5560.0	4670.1	4260.6	4346.3	4439.4	4908.2
47.5°	6383.1	6472.9	6652.5	6889.0	6931.0	6189.5	5237.8	4773.9	4852.2	4948.6	5370.5
50°	6399.6	6477.0	6755.5	7090.9	7309.2	6794.2	5847.5	5349.9	5423.2	5526.2	5865.7
52.5°	6001.6	6123.5	6609.7	7085.1	7483.1	7300.1	6453.1	5948.9	6031.3	6154.9	6378.1
55°	4658.6	4837.4	6182.0	6864.3	7421.3	7627.2	7029.1	6585.8	6691.2	6820.6	6893.9
57.5°	4012.6	4090.9	4907.4	6462.2	7139.5	7712.1	7515.2	7229.3	7399.0	7540.7	7439.4
60°	3606.4	3671.5	4154.3	5836.8	6768.7	7577.8	7890.9	7829.1	8122.4	8291.3	7997.2
62.5°	3171.4	3233.2	3672.3	4873.6	6294.1	7354.5	8128.2	8382.8	8864.0	9048.6	8522.9
65°	2739.6	2792.3	3213.4	4095.0	5691.0	7131.2	8251.0	8861.5	9550.3	9741.5	8959.6
67.5°	2258.4	2302.1	2700.1	3454.8	4957.7	6825.5	8311.9	9238.1	10147.7	10311.7	9175.4
70°	1629.8	1663.5	2074.7	2732.2	4037.3	6299.9	8287.2	9505.0	10457.5	10588.5	9012.3
72.5°	770.4	800.9	1283.7	1774.0	2851.7	5276.5	7787.1	9293.3	10142.7	10077.7	8013.7
75°	411.1	437.5	737.4	973.1	1506.2	3617.1	6372.4	8005.4	8517.1	8200.7	5922.5
77.5°	278.5	299.1	456.5	584.2	688.0	1717.1	4095.8	5542.7	5332.6	4810.2	2966.2
80°	220.8	242.2	374.1	395.5	332.9	620.4	1692.4	2565.8	1843.2	1474.0	843.7
82.5°	169.7	193.6	314.7	286.7	181.3	254.6	492.7	811.6	472.1	359.2	204.3
85°	103.8	129.4	247.2	182.9	102.2	116.2	167.3	225.8	144.2	120.3	73.3
87.5°	52.7	74.2	125.2	66.7	46.1	27.2	44.5	44.5	37.9	33.0	19.0
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°	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4	2244.4
2.5°	2252.7	2269.1	2297.2	2323.5	2344.1	2363.9	2383.7	2394.4	2397.7	2410.9	2418.3
5°	2279.0	2309.5	2363.9	2415.0	2447.1	2466.9	2480.9	2489.1	2490.8	2494.9	2501.5
7.5°	2327.6	2376.3	2452.1	2503.1	2527.0	2525.4	2519.6	2499.0	2490.8	2483.4	2485.0
10°	2396.0	2460.3	2553.4	2588.8	2574.0	2534.5	2483.4	2423.2	2395.2	2368.0	2359.8
12.5°	2480.9	2562.5	2653.9	2652.3	2578.9	2477.6	2359.0	2266.7	2208.2	2166.1	2156.3
15°	2583.9	2677.8	2747.9	2691.8	2531.2	2349.1	2175.2	2054.9	2002.2	1956.0	1951.1
17.5°	2690.2	2790.7	2822.8	2679.5	2410.9	2158.7	1961.8	1867.1	1815.1	1790.4	1797.8
20°	2794.0	2893.7	2867.3	2608.6	2227.9	1942.9	1767.4	1715.5	1704.7	1710.5	1708.0
22.5°	2903.6	2992.6	2876.4	2471.8	1994.8	1722.0	1625.6	1627.3	1651.2	1668.5	1672.6
25°	3015.6	3075.8	2852.5	2274.1	1744.3	1559.7	1535.8	1562.2	1609.2	1642.9	1652.0
27.5°	3123.6	3149.9	2800.6	2029.4	1529.2	1443.5	1447.7	1502.0	1572.9	1619.9	1631.4
30°	3245.5	3215.9	2700.9	1754.2	1380.1	1343.9	1378.5	1441.9	1512.8	1554.8	1564.7
32.5°	3383.1	3272.7	2542.7	1499.6	1274.6	1263.9	1320.8	1362.0	1393.3	1405.6	1412.2
35°	3554.5	3352.6	2340.0	1320.8	1179.9	1205.4	1259.8	1239.2	1226.9	1220.3	1226.9
37.5°	3777.0	3460.6	2102.7	1204.6	1103.3	1163.4	1185.7	1121.4	1072.8	1048.9	1054.6
40°	4044.7	3618.8	1874.5	1114.8	1054.6	1127.2	1088.4	1011.0	949.2	915.4	917.9
42.5°	4342.2	3784.4	1682.5	1047.2	1027.5	1097.5	1016.7	924.5	824.8	814.1	824.8
45°	4654.5	3954.9	1551.5	995.3	1014.3	1072.0	975.5	826.4	755.6	799.2	822.3
47.5°	4966.7	4111.5	1472.4	956.6	1007.7	1043.1	939.3	772.0	721.8	785.2	814.9
50°	5314.4	4251.5	1437.0	928.6	1000.3	1031.6	884.9	758.0	686.3	728.4	759.7
52.5°	5659.7	4360.3	1410.6	900.6	989.6	1022.5	858.5	741.5	643.5	646.0	663.3
55°	6004.1	4431.2	1381.8	863.5	965.7	1002.7	856.1	723.4	611.4	599.8	608.1
57.5°	6371.6	4471.5	1346.3	822.3	924.5	952.5	853.6	709.4	601.5	582.5	585.0
60°	6745.6	4530.9	1300.2	772.0	869.3	892.3	847.8	704.5	595.7	563.6	566.0
62.5°	7081.0	4551.5	1245.0	724.2	798.4	833.0	835.5	700.4	580.1	524.9	524.9
65°	7301.0	4462.5	1148.6	669.9	721.8	772.0	811.6	686.3	552.0	496.8	496.8
67.5°	7291.9	4208.7	997.8	599.8	647.6	704.5	777.0	662.5	518.3	462.2	464.7
70°	6952.4	3707.7	806.6	518.3	566.0	632.0	732.5	627.0	477.9	424.3	429.3
72.5°	5962.9	2901.9	585.8	422.7	471.3	557.0	674.8	584.2	436.7	390.5	388.1
75°	4259.8	1836.6	397.1	324.6	366.7	472.1	603.1	533.9	398.8	392.2	370.0
77.5°	2176.0	877.5	262.8	237.3	255.4	372.4	506.7	477.1	404.6	323.8	288.4
80°	707.8	323.8	165.6	161.5	169.7	248.0	392.2	391.4	306.5	220.0	194.5
82.5°	225.8	139.2	107.9	103.8	99.7	155.7	273.5	309.8	206.8	139.2	138.4
85°	89.8	83.2	63.4	58.5	42.0	73.3	143.4	206.0	154.1	100.5	103.0
87.5°	33.0	33.0	17.3	12.4	9.1	24.7	38.7	61.8	88.2	51.9	51.1
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)