

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: P950193

Luminaire Tested: **GALN-SB4D-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32927 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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



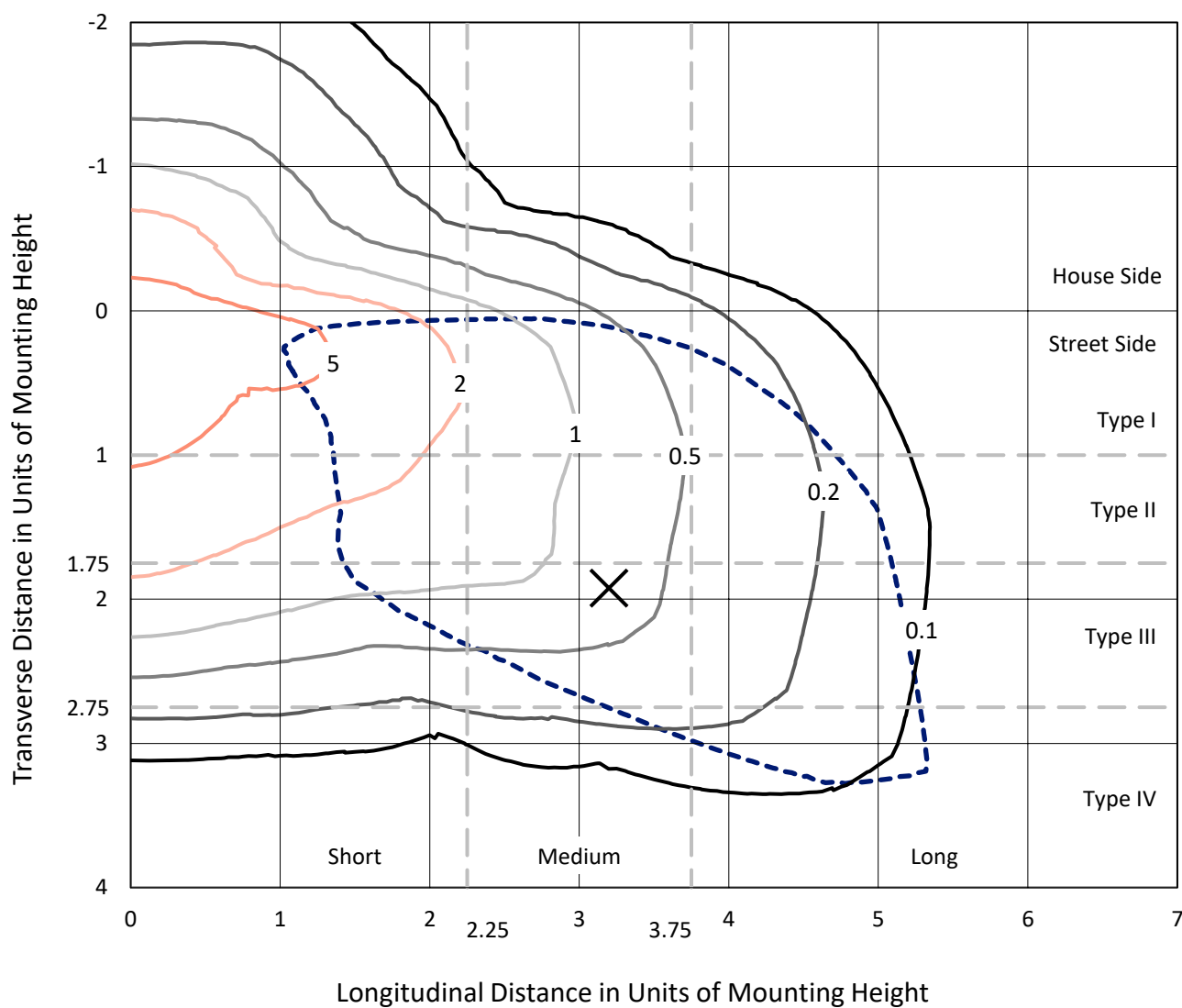
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

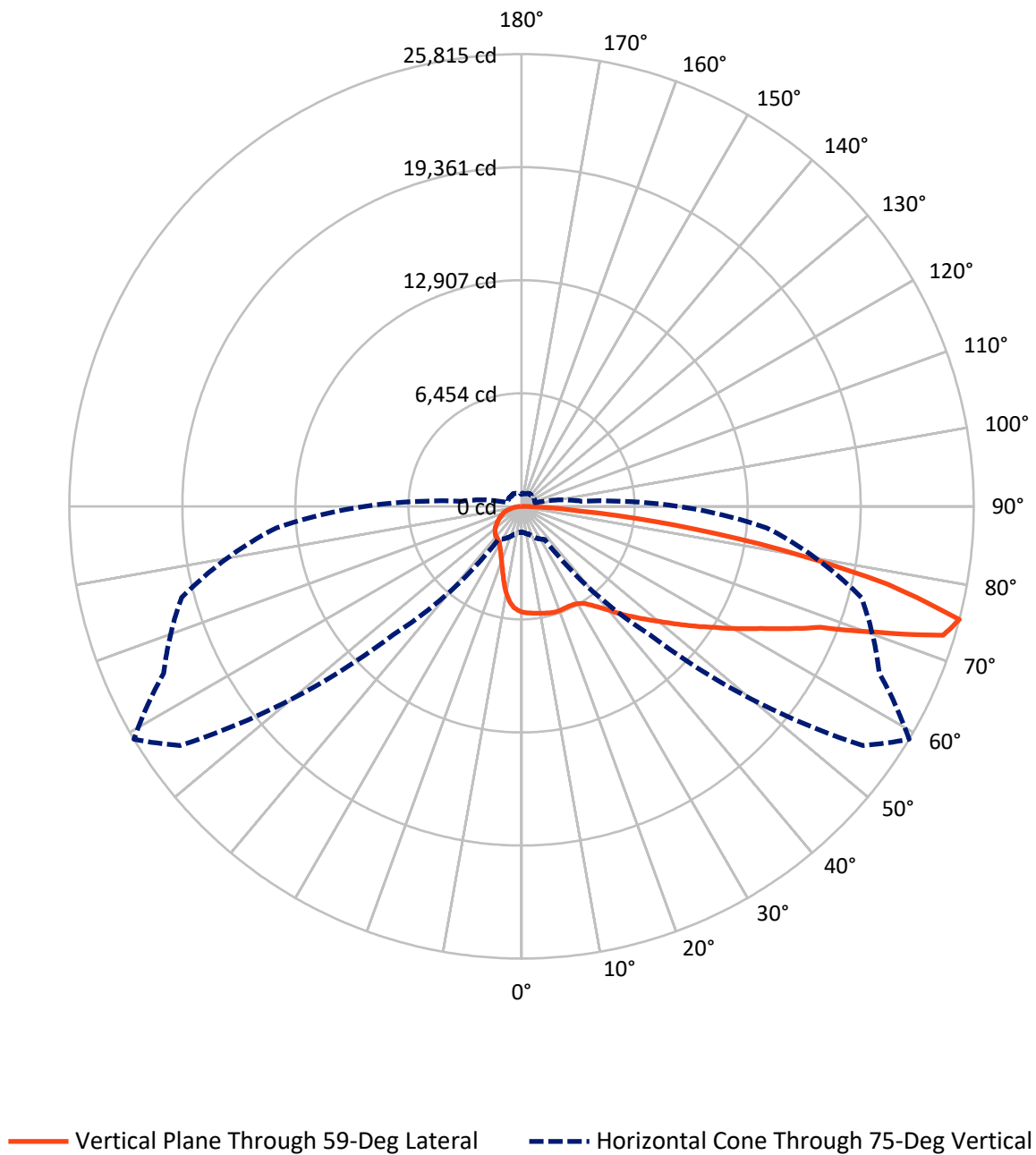


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6175.7	0.0	6175.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26751.3	0.0	26751.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	32927.0	0.0	32927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.9	1.6
10°-20°	1385.2	4.2
20°-30°	2104.0	6.4
30°-40°	3127.5	9.5
40°-50°	4651.1	14.1
50°-60°	6313.3	19.2
60°-70°	7707.5	23.4
70°-80°	6048.8	18.4
80°-90°	1047.8	3.2
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°	32927.0	100.0
0°-180°	32927.0	100.0

Coefficient of Utilization



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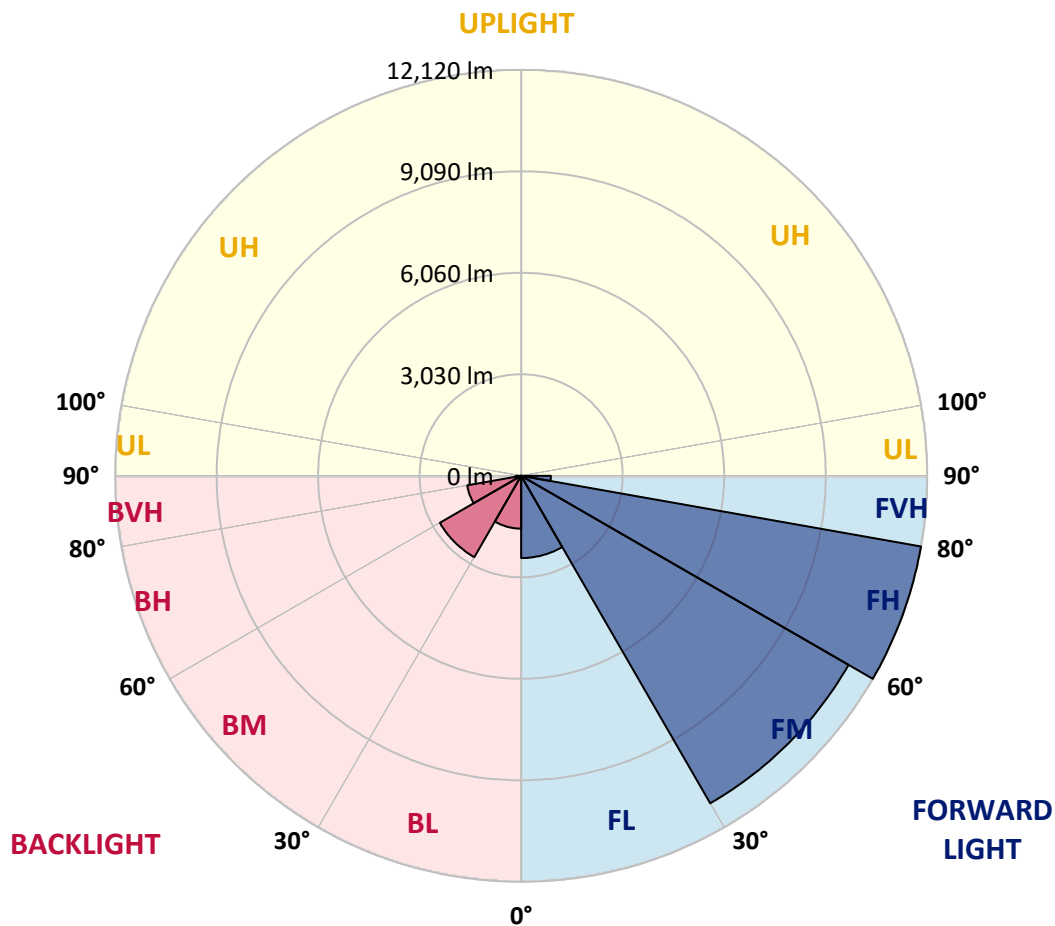
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2455.1	7.5			
FM	(30°-60°)	11288.7	34.3			
FH	(60°-80°)	12120.1	36.8			G5
FVH	(80°-90°)	887.4	2.7			G5
BL	(0°-30°)	1576.0	4.8	B3/2500		
BM	(30°-60°)	2803.1	8.5	B3/5000		
BH	(60°-80°)	1636.2	5.0	B3/2500		G3/2500
BVH	(80°-90°)	160.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7
2.5°	6095.0	6073.8	6095.0	6086.2	6082.6	6075.6	6077.3	6089.7	6082.6	6091.5	6061.4
5°	6054.3	6041.9	6063.2	6057.8	6080.9	6084.4	6107.4	6121.6	6130.5	6132.2	6109.2
7.5°	5987.0	5974.6	6004.7	6029.5	6079.1	6093.3	6141.1	6164.1	6176.5	6197.8	6164.1
10°	5740.8	5735.5	5809.9	5903.7	6020.7	6093.3	6165.9	6204.9	6224.4	6281.0	6242.1
12.5°	5305.0	5312.1	5409.6	5590.2	5824.0	6057.8	6194.2	6250.9	6281.0	6351.9	6334.2
15°	4888.8	4887.0	4993.3	5186.4	5514.1	5902.0	6208.4	6305.8	6357.2	6461.7	6447.5
17.5°	4647.9	4640.8	4715.2	4862.2	5166.9	5662.8	6173.0	6335.9	6445.8	6576.8	6564.4
20°	4603.6	4589.4	4628.4	4701.0	4917.1	5400.7	6080.9	6335.9	6516.6	6686.7	6679.6
22.5°	4764.8	4741.8	4725.8	4717.0	4812.6	5184.6	5976.4	6314.7	6621.1	6844.3	6831.9
25°	5088.9	5053.5	4972.0	4892.3	4864.0	5087.2	5884.3	6309.4	6777.0	7056.9	7010.8
27.5°	5613.3	5569.0	5404.2	5212.9	5041.1	5136.8	5843.5	6341.3	6948.8	7281.8	7189.7
30°	6263.3	6215.5	6008.3	5714.2	5406.0	5321.0	5894.9	6435.1	7168.5	7581.2	7400.5
32.5°	6846.1	6792.9	6615.8	6316.5	5900.2	5639.8	6057.8	6614.0	7513.9	7997.4	7717.6
35°	7363.3	7301.3	7141.9	6865.6	6506.0	6088.0	6351.9	6931.1	8004.5	8674.1	8148.0
37.5°	7869.9	7797.3	7623.7	7331.4	7079.9	6684.9	6757.5	7338.5	8656.3	9495.9	8718.3
40°	8436.7	8332.2	8121.4	7832.7	7588.3	7384.6	7290.7	7838.0	9318.8	10413.5	9430.4
42.5°	8985.8	8886.6	8635.1	8388.9	8082.4	8024.0	7908.9	8422.5	10043.3	11421.3	10153.1
45°	9577.4	9458.7	9154.1	8842.3	8649.3	8449.1	8507.6	9007.1	10753.6	12448.7	10911.2
47.5°	10131.8	9999.0	9639.4	9292.2	9186.0	8806.9	9056.7	9650.0	11492.2	13490.2	11662.2
50°	10431.2	10300.1	10000.8	9687.2	9604.0	9248.0	9651.8	10356.8	12266.3	14528.2	12383.2
52.5°	10680.9	10539.2	10147.8	9974.2	9949.4	9728.0	10385.1	11164.5	13040.3	15445.7	13079.3
55°	10946.6	10789.0	10289.5	10133.6	10247.0	10266.5	11254.8	12080.3	13858.7	16340.2	13736.4
57.5°	11253.1	11052.9	10425.9	10268.2	10537.5	10897.0	12253.9	13029.7	14662.8	17169.2	14321.0
60°	11541.8	11339.9	10688.0	10482.6	10851.0	11628.6	13399.9	14179.3	15573.3	17907.8	14873.6
62.5°	11598.5	11432.0	10897.0	10895.3	11276.1	12482.4	14756.7	15339.5	16368.6	18637.6	15369.6
65°	10617.2	10512.7	10195.6	10879.3	11885.4	13711.6	16267.6	16823.8	17380.0	19275.3	15805.3
67.5°	8080.7	8094.8	8071.8	9391.4	11393.0	15477.6	18455.2	18412.7	18628.8	19990.9	16306.6
70°	3694.9	3778.2	4320.2	6483.0	9127.5	15681.3	22072.2	21521.3	20196.4	20917.3	16740.6
72.5°	1996.3	2060.0	2281.4	3140.5	5487.5	13941.9	24775.2	25166.6	22281.2	21540.8	16264.1
75°	1464.9	1500.3	1654.4	1996.3	2304.5	10362.1	23806.3	25814.9	22541.6	20086.5	14044.6
77.5°	1096.4	1112.4	1238.1	1581.8	1179.7	5462.7	19022.0	21379.6	19296.5	16503.2	10374.5
80°	795.3	813.0	906.9	1186.8	827.2	1998.0	13061.6	15006.5	13215.7	10519.8	5170.4
82.5°	549.1	556.2	596.9	807.7	577.4	775.8	7411.1	8799.8	7377.5	3691.4	1395.8
85°	331.2	340.1	357.8	471.2	327.7	368.4	3199.0	3308.8	2205.3	882.1	434.0
87.5°	136.4	145.2	159.4	198.4	129.3	102.7	527.8	662.5	412.7	258.6	134.6
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°	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7	6043.7
2.5°	6052.5	6040.1	6006.5	5960.4	5917.9	5864.8	5841.7	5822.3	5804.6	5770.9	5755.0
5°	6089.7	6056.1	5965.7	5848.8	5716.0	5570.7	5429.0	5331.6	5248.4	5186.4	5135.0
7.5°	6146.4	6082.6	5917.9	5678.8	5374.1	5062.4	4780.7	4580.6	4430.0	4375.1	4279.5
10°	6204.9	6128.7	5841.7	5420.2	4894.1	4414.1	4040.3	3834.9	3714.4	3675.4	3615.2
12.5°	6273.9	6162.4	5723.1	5060.6	4357.4	3831.3	3505.4	3385.0	3323.0	3301.7	3307.0
15°	6374.9	6190.7	5544.2	4610.7	3845.5	3406.2	3195.4	3112.2	3080.3	3078.5	3085.6
17.5°	6451.1	6196.0	5266.1	4128.9	3452.3	3149.4	2975.8	2943.9	2965.2	2997.0	3009.4
20°	6536.1	6148.2	4901.2	3689.6	3175.9	2924.4	2851.8	2873.0	2924.4	2970.5	2986.4
22.5°	6596.3	6061.4	4460.1	3347.8	2936.8	2795.1	2791.6	2835.9	2864.2	2887.2	2899.6
25°	6649.5	5914.4	3992.5	3060.8	2740.2	2717.2	2756.1	2742.0	2722.5	2742.0	2754.4
27.5°	6688.4	5682.3	3574.5	2809.3	2602.0	2664.0	2641.0	2609.1	2607.4	2618.0	2635.7
30°	6676.0	5372.4	3230.9	2570.2	2504.6	2564.8	2509.9	2504.6	2499.3	2504.6	2524.1
32.5°	6676.0	5019.9	2966.9	2405.4	2442.6	2419.6	2414.3	2401.9	2380.6	2378.9	2401.9
35°	6713.2	4667.4	2740.2	2316.9	2391.3	2336.3	2339.9	2309.8	2265.5	2244.2	2265.5
37.5°	6789.4	4384.0	2515.2	2274.3	2300.9	2299.1	2285.0	2233.6	2155.7	2088.4	2111.4
40°	6973.6	4300.7	2361.1	2254.9	2258.4	2279.7	2242.5	2143.3	1966.1	1856.3	1870.5
42.5°	7262.3	4440.7	2327.5	2207.0	2230.1	2251.3	2178.7	1948.4	1822.7	1757.1	1757.1
45°	7629.0	4685.1	2400.1	2138.0	2162.8	2200.0	1983.9	1874.0	1817.4	1819.1	1828.0
47.5°	8093.1	4941.9	2534.7	2077.7	2065.3	2086.6	1854.6	1787.2	1709.3	1728.8	1778.4
50°	8629.8	5202.3	2662.3	1996.3	1957.3	1888.2	1771.3	1707.5	1608.3	1562.3	1574.7
52.5°	9210.8	5453.8	2713.6	1897.1	1840.4	1760.7	1714.6	1636.7	1516.2	1440.1	1438.3
55°	9761.6	5682.3	2657.0	1778.4	1723.5	1661.5	1654.4	1606.6	1477.3	1371.0	1371.0
57.5°	10282.4	5873.6	2515.2	1657.9	1604.8	1567.6	1615.4	1592.4	1429.4	1293.0	1286.0
60°	10723.5	6004.7	2309.8	1535.7	1498.5	1479.0	1551.7	1544.6	1362.1	1209.8	1204.5
62.5°	11074.2	6056.1	2083.0	1418.8	1410.0	1374.5	1463.1	1463.1	1277.1	1128.3	1123.0
65°	11348.7	6006.5	1852.8	1303.7	1321.4	1268.3	1355.0	1344.4	1186.8	1055.7	1048.6
67.5°	11591.4	5843.5	1597.7	1190.3	1231.1	1163.7	1241.7	1216.9	1087.6	983.1	976.0
70°	11699.4	5464.5	1307.2	1077.0	1126.5	1061.0	1128.3	1082.3	976.0	905.1	891.0
72.5°	10831.5	4541.6	1029.1	958.3	1000.8	947.6	1006.1	953.0	855.5	823.7	797.1
75°	8961.0	3408.0	791.8	829.0	860.9	820.1	859.1	820.1	731.5	754.6	689.0
77.5°	6507.8	2300.9	605.8	692.6	706.7	685.5	719.1	674.9	595.2	589.8	563.3
80°	3236.2	1348.0	474.7	547.3	542.0	527.8	566.8	545.6	478.3	506.6	501.3
82.5°	937.0	577.4	345.4	384.4	373.7	377.3	405.6	416.3	623.5	618.2	632.4
85°	294.0	226.7	207.2	214.3	203.7	209.0	239.1	474.7	439.3	256.8	278.1
87.5°	76.2	77.9	51.4	54.9	56.7	67.3	76.2	288.7	138.2	90.3	95.7
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)