

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: P951629

Luminaire Tested: **GALN-SB5D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951629
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-SB5D-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 43033 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 364.9
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

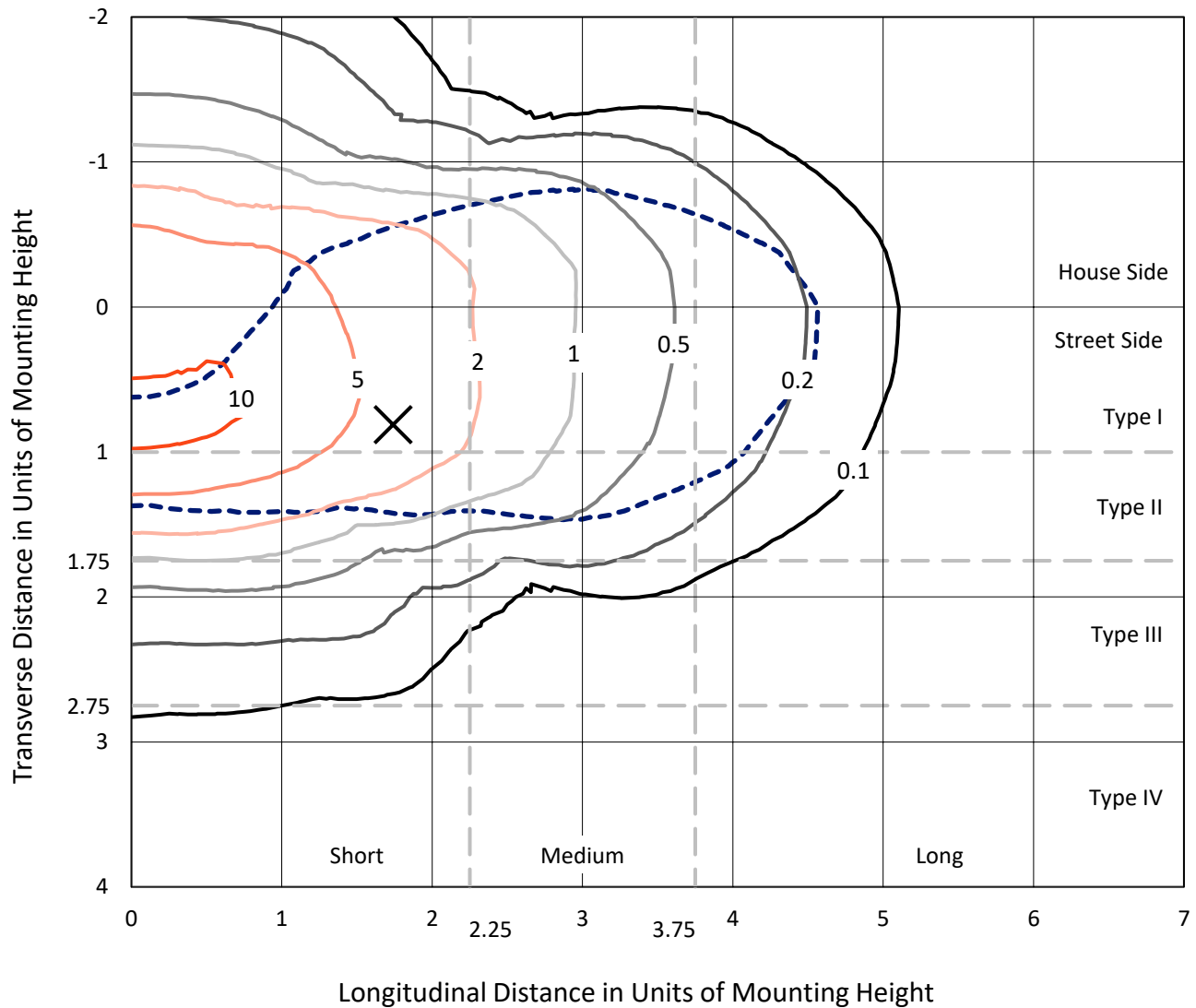


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

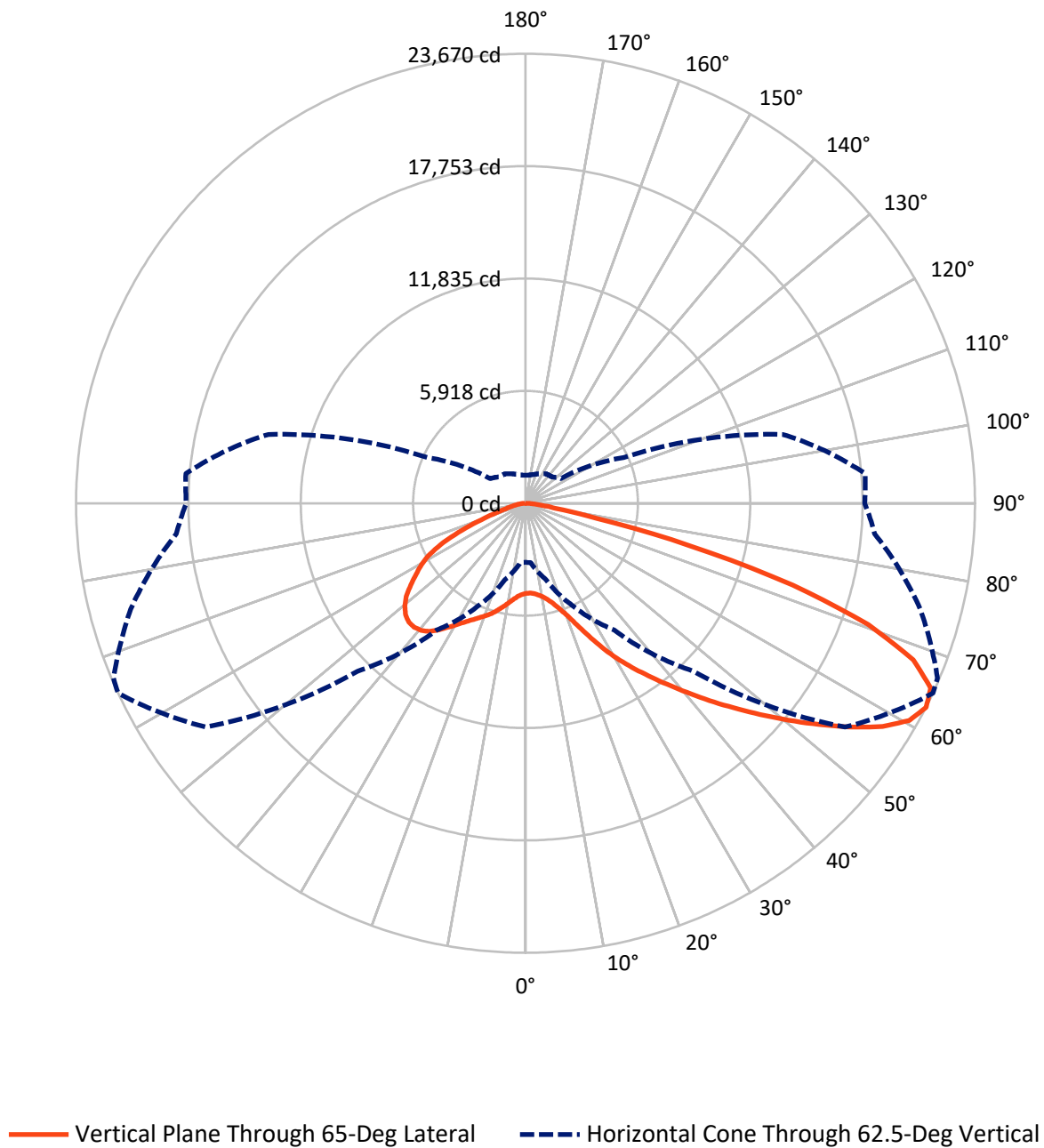


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13579.3	0.0	13579.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29453.7	0.0	29453.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	43033.0	0.0	43033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.8	1.1
10°-20°	1603.2	3.7
20°-30°	3250.7	7.6
30°-40°	5625.3	13.1
40°-50°	8512.8	19.8
50°-60°	9980.8	23.2
60°-70°	8367.7	19.4
70°-80°	4619.6	10.7
80°-90°	600.1	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°	43033.0	100.0
0°-180°	43033.0	100.0

Coefficient of Utilization



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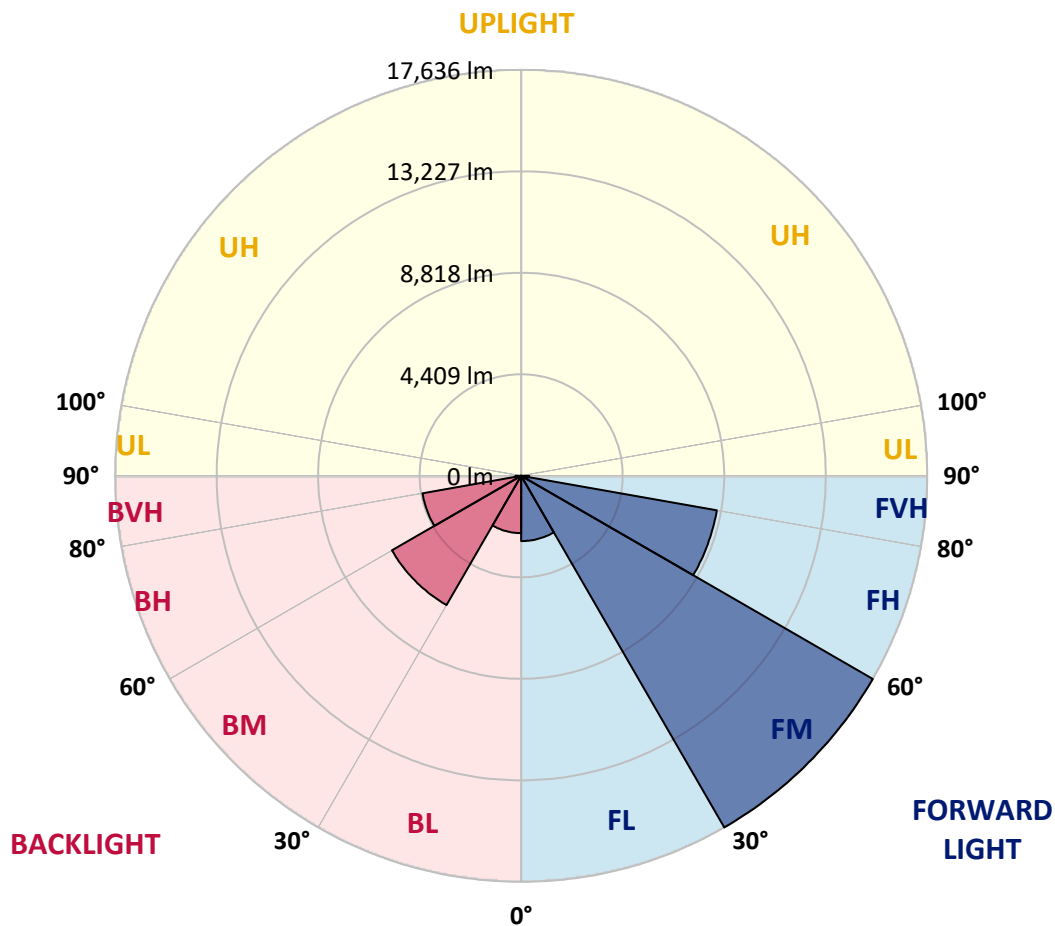
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2836.4	6.6			
FM	(30°-60°)	17636.3	41.0			
FH	(60°-80°)	8631.2	20.1			G4/12000
FVH	(80°-90°)	349.7	0.8			G3/500
BL	(0°-30°)	2490.3	5.8	B3/2500		
BM	(30°-60°)	6482.6	15.1	B4/8500		
BH	(60°-80°)	4356.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	250.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0
2.5°	4710.8	4697.4	4708.6	4708.6	4713.0	4710.8	4726.4	4730.9	4737.6	4751.0	4751.0
5°	4663.9	4661.7	4681.8	4699.6	4717.5	4733.1	4753.2	4782.2	4786.7	4802.3	4822.4
7.5°	4648.3	4634.9	4666.1	4688.5	4730.9	4768.8	4822.4	4871.5	4891.6	4898.3	4936.3
10°	4768.8	4746.5	4775.5	4788.9	4824.7	4862.6	4925.1	5003.3	5025.6	5052.4	5094.8
12.5°	4974.2	4949.7	4992.1	5012.2	5045.7	5079.2	5121.6	5197.5	5208.7	5257.8	5298.0
15°	5255.5	5226.5	5253.3	5277.9	5333.7	5364.9	5407.4	5481.0	5481.0	5519.0	5548.0
17.5°	5637.3	5599.4	5619.5	5628.4	5664.1	5711.0	5782.4	5847.2	5880.7	5867.3	5827.1
20°	6206.6	6159.8	6159.8	6115.1	6101.7	6139.7	6233.4	6322.7	6358.5	6289.2	6191.0
22.5°	7061.7	6994.7	6956.8	6805.0	6744.7	6749.2	6842.9	6952.3	6981.4	6858.6	6637.5
25°	8149.0	8044.1	7992.7	7769.5	7633.3	7514.9	7588.6	7729.3	7769.5	7617.6	7260.4
27.5°	9236.3	9243.0	9193.9	8925.9	8700.5	8483.9	8445.9	8593.3	8635.7	8463.8	8021.7
30°	10761.1	10602.6	10508.9	10187.4	9865.9	9562.2	9406.0	9466.2	9477.4	9272.0	8758.5
32.5°	12076.2	12036.0	11835.0	11553.7	11140.7	10665.1	10403.9	10307.9	10290.1	9997.6	9388.1
35°	13574.2	13551.9	13339.8	13004.9	12558.4	11897.5	11426.5	11151.9	11129.5	10718.7	10011.0
37.5°	15096.9	15096.9	14889.2	14523.1	14060.9	13234.9	12518.2	12082.9	12011.4	11475.6	10645.1
40°	16311.4	16237.7	16275.7	16121.6	15592.5	14715.1	13730.5	13098.7	13002.7	12359.7	11319.3
42.5°	17001.3	16976.7	17204.4	17376.4	17159.8	16458.8	15065.6	14199.4	14065.4	13333.1	12096.2
45°	17155.3	17128.5	17534.9	18164.5	18468.1	18180.1	16516.8	15358.1	15195.1	14351.2	12929.0
47.5°	16800.3	16746.8	17342.9	18336.4	19309.8	19816.6	18088.6	16615.0	16378.4	15342.5	13784.1
50°	15733.2	15681.8	16583.8	17903.2	19593.3	20928.4	19794.3	17947.9	17586.2	16405.2	14648.1
52.5°	13413.5	13438.0	14851.3	16664.2	19220.5	21620.5	21263.3	19352.2	18916.9	17492.4	15458.5
55°	10448.6	10502.2	12239.1	14235.1	17729.1	21515.6	22265.8	20798.9	20365.8	18515.0	16295.8
57.5°	7481.5	7718.1	9345.7	11321.5	14864.7	19852.3	22484.6	22174.2	21754.5	19631.3	17115.1
60°	4849.2	4891.6	6566.1	8557.6	11319.3	16896.3	22040.3	23216.8	22888.7	20769.9	17800.5
62.5°	3107.8	3136.8	4157.1	5985.6	8146.8	12500.3	20544.4	23670.1	23569.6	21522.3	18459.2
65°	2284.0	2261.6	2793.0	3956.2	5487.7	7709.2	17639.8	23451.3	23650.0	21993.4	19003.9
67.5°	1906.6	1875.4	2136.6	2739.4	4043.2	4378.1	13051.8	22029.1	22756.9	21939.8	19403.6
70°	1737.0	1710.2	1868.7	2033.9	3154.7	2931.4	6579.5	19151.3	20272.0	21330.3	19338.8
72.5°	1471.3	1424.4	1641.0	1806.2	2453.6	2248.2	2719.3	14710.6	16077.0	19376.8	18427.9
75°	1140.9	1109.6	1294.9	1589.6	1844.1	1754.8	1719.1	8932.6	10424.0	14985.2	16121.6
77.5°	904.2	861.8	1031.5	1239.1	1658.8	1323.9	1252.5	3846.8	5324.8	9566.7	12062.8
80°	680.9	643.0	783.6	980.1	1274.8	998.0	810.4	1569.5	2007.1	4847.0	6066.0
82.5°	484.5	451.0	547.0	718.9	857.3	895.3	497.9	879.6	989.0	1868.7	1355.2
85°	310.3	290.2	366.1	451.0	544.8	576.0	303.6	459.9	504.6	770.2	564.8
87.5°	169.7	138.4	196.5	209.9	252.3	230.0	145.1	167.4	180.8	279.1	238.9
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°	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0	4742.0
2.5°	4759.9	4766.6	4788.9	4795.6	4811.3	4831.4	4844.7	4858.1	4858.1	4871.5	4871.5
5°	4824.7	4840.3	4887.2	4911.7	4951.9	4992.1	5016.7	5045.7	5063.5	5072.5	5076.9
7.5°	4949.7	4974.2	5041.2	5083.6	5152.8	5208.7	5246.6	5286.8	5295.7	5320.3	5311.4
10°	5119.4	5148.4	5224.3	5304.7	5387.3	5456.5	5492.2	5521.2	5532.4	5536.9	5525.7
12.5°	5313.6	5356.0	5454.3	5552.5	5639.6	5699.8	5708.8	5702.1	5670.8	5644.0	5644.0
15°	5552.5	5590.4	5699.8	5807.0	5891.8	5903.0	5847.2	5811.5	5773.5	5766.8	5766.8
17.5°	5838.3	5858.4	5958.8	6063.8	6070.4	6032.5	5949.9	5916.4	5880.7	5856.1	5858.4
20°	6170.9	6164.2	6235.7	6280.3	6233.4	6117.3	5992.3	5936.5	5900.8	5871.7	5874.0
22.5°	6568.3	6517.0	6508.0	6496.9	6371.9	6128.5	5958.8	5887.4	5831.6	5791.4	5804.8
25°	7146.6	6950.1	6813.9	6738.0	6456.7	6068.2	5851.7	5693.1	5588.2	5519.0	5545.8
27.5°	7869.9	7539.5	7195.7	7010.4	6456.7	5945.4	5592.7	5335.9	5164.0	5092.6	5128.3
30°	8559.8	8213.7	7706.9	7338.6	6441.1	5744.5	5175.2	4818.0	4617.0	4545.6	4588.0
32.5°	9149.2	8771.9	8249.5	7698.0	6403.1	5418.5	4657.2	4262.0	4067.8	3983.0	4025.4
35°	9696.2	9294.3	8794.2	8093.2	6302.6	4940.8	4087.9	3786.5	3569.9	3433.7	3478.4
37.5°	10256.6	9778.8	9310.0	8450.4	6121.8	4382.6	3650.3	3393.6	3139.0	2956.0	3005.1
40°	10866.1	10294.5	9861.4	8662.5	5824.9	3851.2	3311.0	3076.5	2806.4	2612.1	2650.1
42.5°	11578.3	10913.0	10475.4	8771.9	5418.5	3473.9	3089.9	2860.0	2605.4	2446.9	2478.2
45°	12321.7	11593.9	11035.8	8769.7	4965.3	3297.6	3018.5	2790.8	2509.4	2344.2	2371.0
47.5°	13100.9	12306.1	11520.2	8626.8	4572.4	3322.1	2978.3	2641.2	2330.8	2170.1	2192.4
50°	13882.3	13085.3	11989.1	8358.9	4404.9	3268.5	2828.7	2431.3	2065.2	1920.0	1929.0
52.5°	14657.0	13913.6	12393.2	7977.1	4235.2	3069.8	2636.7	2158.9	1955.8	1855.3	1855.3
55°	15436.2	14733.0	12833.0	7421.2	3811.1	2837.6	2315.2	2056.2	1868.7	1777.2	1768.2
57.5°	16217.6	15679.6	13250.5	6865.3	3277.5	2551.9	2138.8	1931.2	1781.6	1703.5	1690.1
60°	17030.3	16762.4	13681.4	6354.0	2750.6	2185.7	2009.3	1830.7	1678.9	1591.8	1585.1
62.5°	17867.5	17954.6	14018.5	5695.4	2266.1	1962.5	1893.2	1710.2	1562.8	1480.2	1478.0
65°	18711.5	19104.4	14239.5	4782.2	1837.4	1750.4	1768.2	1578.5	1428.9	1357.4	1355.2
67.5°	19347.7	19932.7	14177.0	3619.1	1507.0	1549.4	1611.9	1440.0	1299.4	1243.6	1245.8
70°	19419.2	19834.5	13560.8	2478.2	1261.4	1353.0	1437.8	1303.8	1158.7	1118.5	1120.8
72.5°	18468.1	18494.9	11844.0	1618.6	1067.2	1187.7	1254.7	1165.4	1024.8	984.6	982.3
75°	15974.3	15295.6	8696.0	1067.2	893.0	1020.3	1082.8	1020.3	884.1	893.0	861.8
77.5°	12102.9	10832.6	5280.1	759.1	745.7	857.3	942.2	897.5	781.4	877.4	772.5
80°	6235.7	5860.6	2355.4	567.1	589.4	685.4	774.7	716.7	618.4	589.4	538.1
82.5°	1428.9	1661.1	928.8	406.3	426.4	493.4	591.6	538.1	444.3	375.1	370.6
85°	500.1	547.0	410.8	254.5	250.1	308.1	401.9	359.4	301.4	241.1	254.5
87.5°	158.5	207.6	154.0	102.7	107.2	138.4	185.3	169.7	140.7	91.5	96.0
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)