

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: P953422

Luminaire Tested: **GALN-SB7A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30093 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 199.1
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

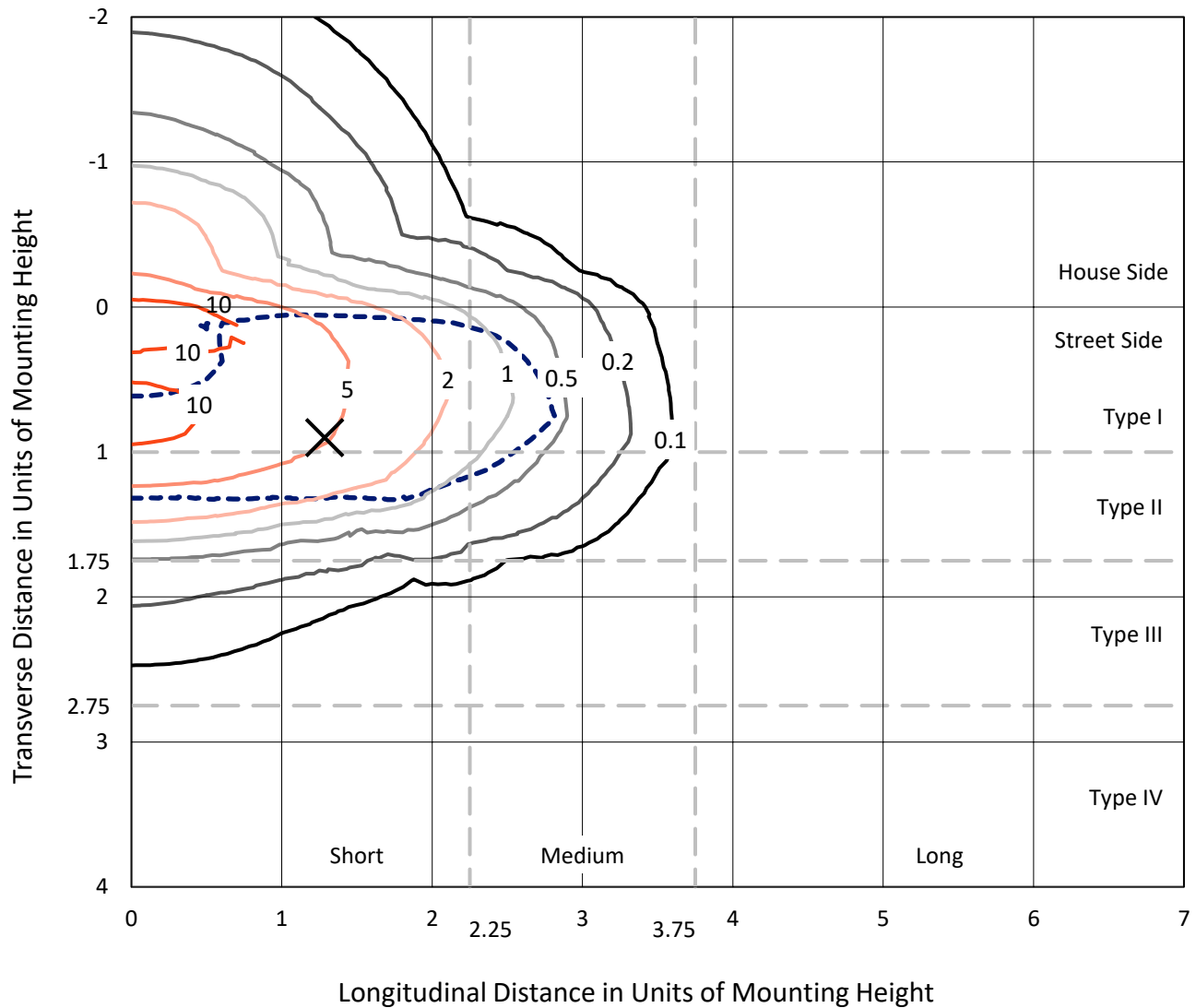


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

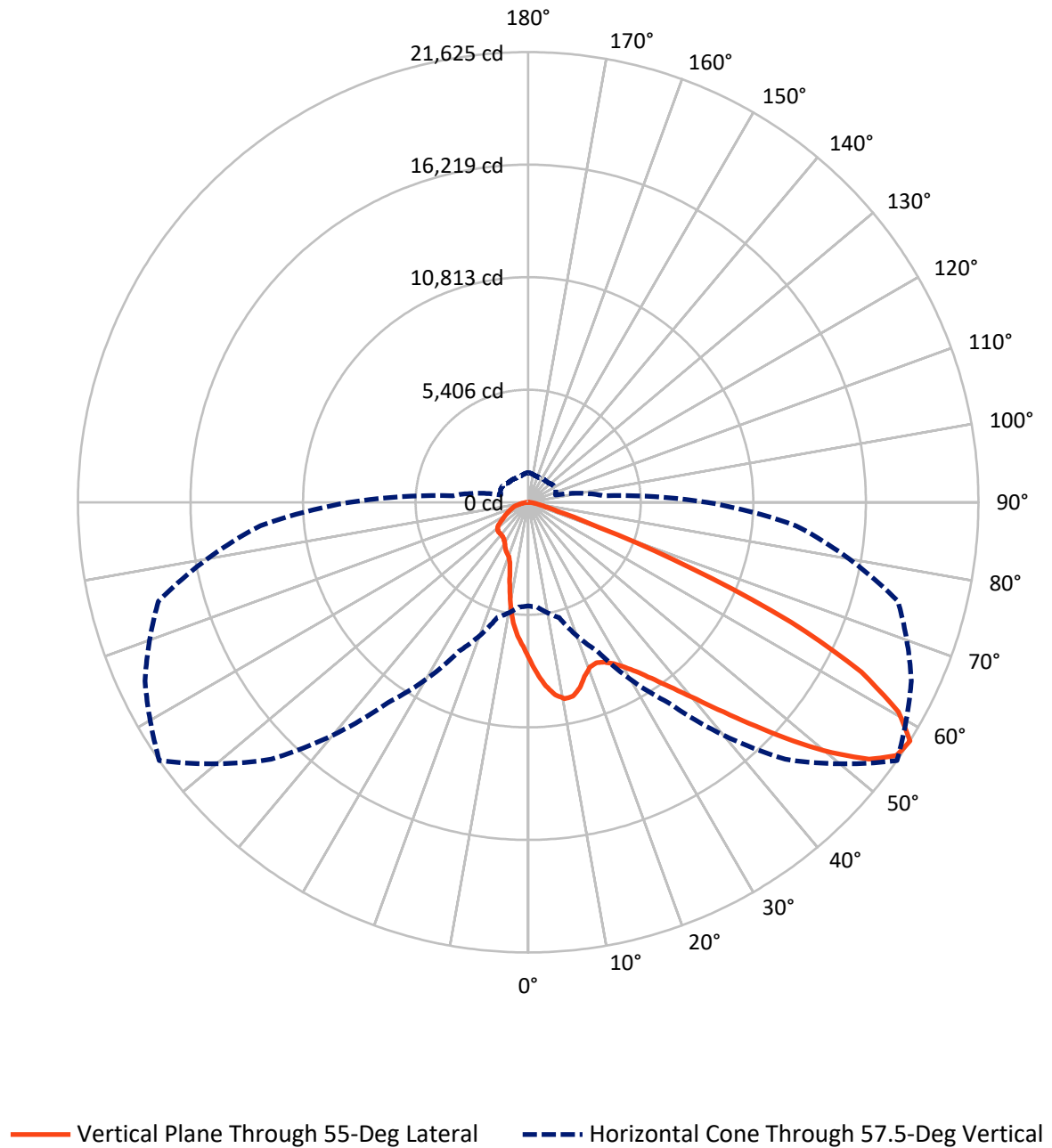


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5445.2	0.0	5445.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24647.8	0.0	24647.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	30093.0	0.0	30093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.7	2.3
10°-20°	1766.1	5.9
20°-30°	2818.1	9.4
30°-40°	4461.8	14.8
40°-50°	6829.3	22.7
50°-60°	7314.8	24.3
60°-70°	4601.8	15.3
70°-80°	1360.8	4.5
80°-90°	240.6	0.8
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°	30093.0	100.0
0°-180°	30093.0	100.0

Coefficient of Utilization



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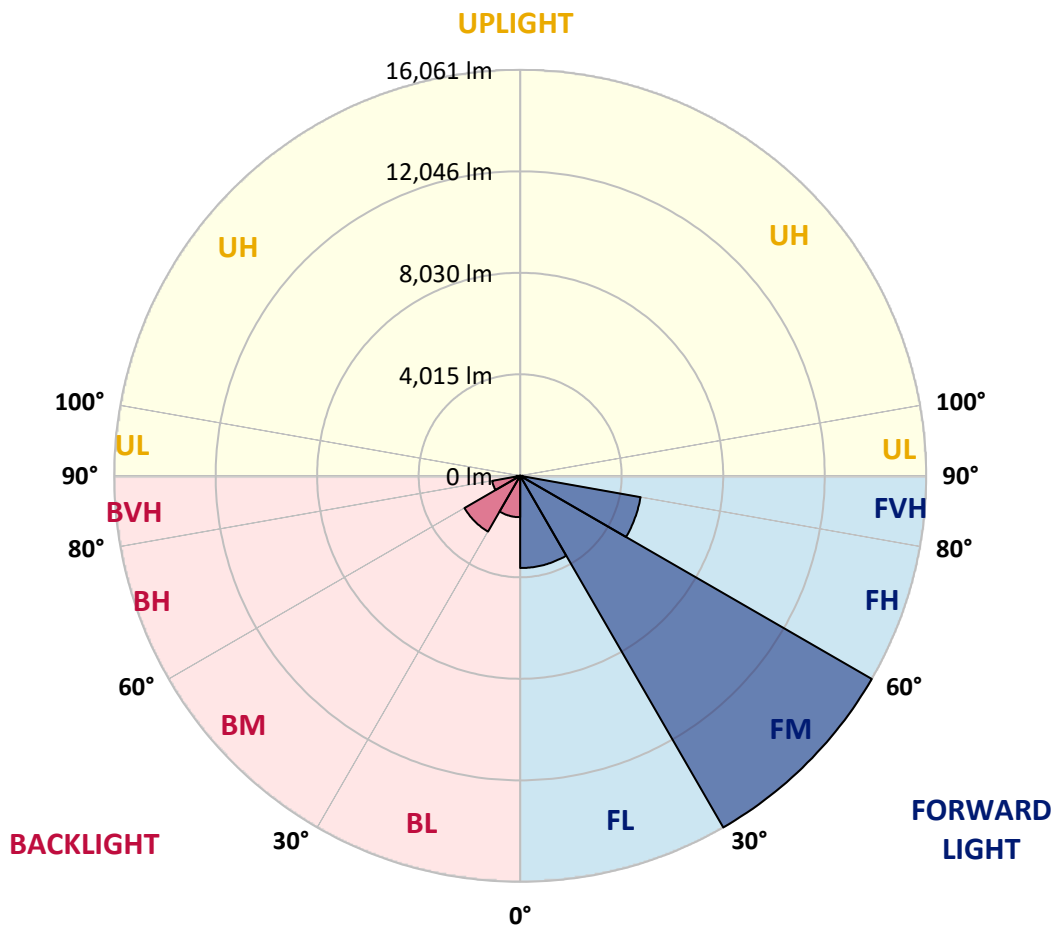
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3647.3	12.1			
FM	(30°-60°)	16060.9	53.4			
FH	(60°-80°)	4838.0	16.1			G2/5000
FVH	(80°-90°)	101.7	0.3			G2/225
BL	(0°-30°)	1636.6	5.4	B3/2500		
BM	(30°-60°)	2545.0	8.5	B3/5000		
BH	(60°-80°)	1124.6	3.7	B3/2500		G3/2500
BVH	(80°-90°)	139.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3
2.5°	8651.1	8644.9	8679.1	8562.4	8483.1	8375.7	8234.2	8053.7	7859.2	7653.9	7565.2
5°	9430.5	9376.0	9411.8	9324.7	9237.6	9075.8	8865.8	8571.7	8212.4	7803.2	7585.4
7.5°	9307.6	9270.2	9362.0	9439.8	9505.1	9484.9	9330.9	9022.9	8559.3	7965.0	7649.2
10°	8316.6	8274.6	8403.7	8672.9	9068.0	9411.8	9598.5	9407.1	8914.0	8142.4	7711.5
12.5°	7442.3	7422.1	7507.7	7725.5	8164.2	8823.8	9564.3	9743.2	9282.7	8352.4	7795.5
15°	7069.0	7044.1	7098.5	7209.0	7489.0	8103.5	9253.1	9973.4	9645.1	8595.1	7929.2
17.5°	6986.5	6958.5	6981.8	7039.4	7219.9	7688.1	8783.3	10087.0	10023.2	8865.8	8041.3
20°	7139.0	7115.6	7118.7	7115.6	7241.6	7613.4	8456.6	10043.4	10353.0	9114.7	8150.2
22.5°	7507.7	7468.8	7470.3	7387.9	7456.3	7744.1	8371.1	9926.7	10647.0	9332.5	8232.6
25°	8108.1	8038.1	8052.1	7842.1	7823.5	8036.6	8504.8	9836.5	10939.5	9506.7	8248.2
27.5°	8929.5	8850.2	8808.2	8495.5	8346.2	8452.0	8777.1	9867.6	11216.4	9657.6	8209.3
30°	9956.3	9859.8	9774.3	9330.9	9060.2	9021.3	9200.2	10073.0	11543.1	9816.3	8142.4
32.5°	11214.8	11102.8	10947.2	10359.2	9978.1	9774.3	9747.8	10438.5	11925.8	10018.5	8108.1
35°	12712.9	12566.7	12345.8	11585.1	11102.8	10685.9	10469.7	10965.9	12450.0	10323.4	8147.0
37.5°	14256.2	14091.3	13889.0	12983.6	12390.9	11776.4	11350.2	11681.5	13148.5	10737.2	8249.7
40°	15679.6	15494.5	15306.2	14500.4	13864.1	13123.6	12428.2	12586.9	14002.6	11231.9	8423.9
42.5°	16519.7	16382.8	16311.2	15875.6	15384.0	14632.6	13769.2	13660.3	14962.4	11801.3	8623.1
45°	16482.3	16426.3	16647.2	16827.7	16711.0	16294.1	15340.5	14847.3	15925.4	12294.5	8806.6
47.5°	15601.8	15639.1	16132.3	17146.6	17593.1	17810.9	17129.5	16012.5	16762.3	12663.1	8889.1
50°	13206.1	13237.2	14379.1	16566.3	17820.2	19047.6	18904.5	17149.7	17411.1	12888.7	8870.4
52.5°	11309.7	11329.9	11820.0	14845.8	17070.4	19669.9	20503.7	18221.6	17885.5	12950.9	8766.2
55°	8518.8	8588.9	9138.0	11647.3	15119.5	19176.7	21477.6	19326.1	18185.8	12957.2	8657.3
57.5°	4976.6	5052.8	5731.1	7905.9	11751.5	17457.7	21625.4	20306.2	18389.6	12907.4	8592.0
60°	2437.7	2470.4	2766.0	4155.2	7246.3	14145.7	20436.8	20780.6	18503.1	12880.9	8588.9
62.5°	1642.8	1638.1	1650.6	2050.4	3570.3	9088.2	17960.2	19949.9	18442.5	12779.8	8557.7
65°	1412.5	1395.4	1348.8	1439.0	1849.7	4156.7	13876.6	17470.2	17980.4	12526.2	8344.6
67.5°	1221.2	1222.8	1224.3	1196.3	1320.8	1918.1	8480.0	13761.5	16322.1	11325.3	7523.2
70°	1011.2	1025.2	1031.4	1031.4	1076.5	1258.5	3620.0	9432.0	12874.7	8879.8	6059.3
72.5°	921.0	891.4	894.5	879.0	879.0	958.3	1457.7	5346.8	8111.3	4995.3	3697.8
75°	751.4	770.1	773.2	762.3	726.5	731.2	865.0	2243.3	3470.7	2072.2	1827.9
77.5°	648.7	648.7	654.9	647.2	619.2	547.6	577.2	869.6	1180.8	849.4	913.2
80°	521.1	519.6	546.0	561.6	518.0	404.5	368.7	480.7	524.3	373.4	474.5
82.5°	253.6	269.1	374.9	427.8	393.6	292.5	225.6	298.7	280.0	164.9	213.1
85°	147.8	140.0	168.0	238.0	225.6	161.8	108.9	155.6	146.2	84.0	85.6
87.5°	46.7	43.6	34.2	80.9	65.3	45.1	29.6	45.1	40.4	18.7	18.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3	7540.3
2.5°	7454.8	7271.2	7089.2	6922.7	6821.6	6756.3	6690.9	6617.8	6589.8	6547.8
5°	7380.1	7025.4	6709.6	6437.4	6190.0	5995.5	5799.5	5640.9	5569.3	5617.5
7.5°	7336.5	6823.2	6336.2	5836.9	5356.2	4971.9	4637.5	4402.5	4296.8	4323.2
10°	7297.6	6594.5	5852.4	5063.7	4373.0	3897.0	3554.7	3375.8	3308.9	3322.9
12.5°	7261.9	6337.8	5269.1	4231.4	3497.1	3182.9	3084.9	3086.4	3098.9	3108.2
15°	7255.6	6028.2	4617.2	3503.4	3024.2	3004.0	3109.8	3176.7	3212.5	3223.3
17.5°	7246.3	5658.0	3953.0	3007.1	2909.1	3046.0	3144.0	3187.6	3215.6	3217.1
20°	7209.0	5188.2	3340.0	2770.6	2884.2	3002.4	3063.1	3097.3	3120.7	3128.5
22.5°	7093.9	4665.5	2862.4	2664.9	2784.6	2879.5	2951.1	2990.0	3004.0	3013.3
25°	6886.9	4080.5	2532.6	2563.7	2646.2	2766.0	2823.5	2831.3	2826.7	2840.7
27.5°	6616.3	3453.6	2327.3	2426.8	2532.6	2635.3	2666.4	2661.8	2652.4	2668.0
30°	6289.6	2890.4	2196.6	2272.8	2417.5	2510.9	2538.9	2528.0	2509.3	2526.4
32.5°	5944.2	2430.0	2089.3	2165.5	2322.6	2414.4	2442.4	2431.5	2417.5	2431.5
35°	5622.2	2107.9	1989.7	2093.9	2247.9	2338.2	2374.0	2375.5	2375.5	2392.6
37.5°	5326.6	1919.7	1907.3	2048.8	2196.6	2277.5	2328.8	2331.9	2265.1	2269.7
40°	5052.8	1840.4	1869.9	2019.3	2146.8	2224.6	2227.7	2053.5	1930.6	1927.5
42.5°	4828.8	1824.8	1880.8	2016.1	2111.0	2114.2	1894.8	1759.5	1725.2	1726.8
45°	4618.8	1820.1	1905.7	2016.1	2058.2	1826.4	1678.6	1642.8	1645.9	1658.3
47.5°	4383.9	1801.5	1910.4	1988.1	1905.7	1624.1	1580.6	1565.0	1558.8	1561.9
50°	4127.2	1734.6	1851.2	1932.1	1644.3	1537.0	1482.6	1477.9	1485.7	1490.3
52.5°	3856.5	1625.7	1750.1	1831.0	1524.6	1460.8	1400.1	1411.0	1445.2	1456.1
55°	3679.2	1498.1	1616.3	1628.8	1440.5	1389.2	1337.9	1362.8	1426.5	1446.8
57.5°	3632.5	1362.8	1463.9	1449.9	1333.2	1327.0	1295.9	1317.7	1398.5	1428.1
60°	3618.5	1241.4	1314.5	1303.7	1229.0	1258.5	1250.8	1261.6	1289.6	1299.0
62.5°	3509.6	1145.0	1180.8	1165.2	1135.6	1187.0	1205.6	1182.3	1204.1	1215.0
65°	3232.7	1067.2	1050.1	1039.2	1051.6	1098.3	1135.6	1089.0	1109.2	1140.3
67.5°	2775.3	961.4	914.7	927.2	966.1	991.0	1039.2	986.3	1003.4	1056.3
70°	2244.8	827.6	785.6	821.4	858.7	910.1	917.8	882.1	922.5	981.6
72.5°	1588.3	692.3	662.7	735.8	748.3	815.2	798.1	780.9	837.0	857.2
75°	1101.4	558.5	541.4	597.4	642.5	700.1	687.6	707.8	826.1	835.4
77.5°	696.9	434.0	423.1	458.9	521.1	584.9	605.2	835.4	1411.0	1467.0
80°	404.5	323.6	311.1	339.1	393.6	452.7	583.4	1025.2	930.3	919.4
82.5°	225.6	222.5	206.9	214.7	262.9	326.7	824.5	721.8	586.5	605.2
85°	105.8	130.7	112.0	107.3	147.8	382.7	550.7	412.3	273.8	267.6
87.5°	28.0	24.9	24.9	28.0	62.2	329.8	219.3	175.8	104.2	101.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)