

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: P459322

Luminaire Tested: **GALN-SA7D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50083 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

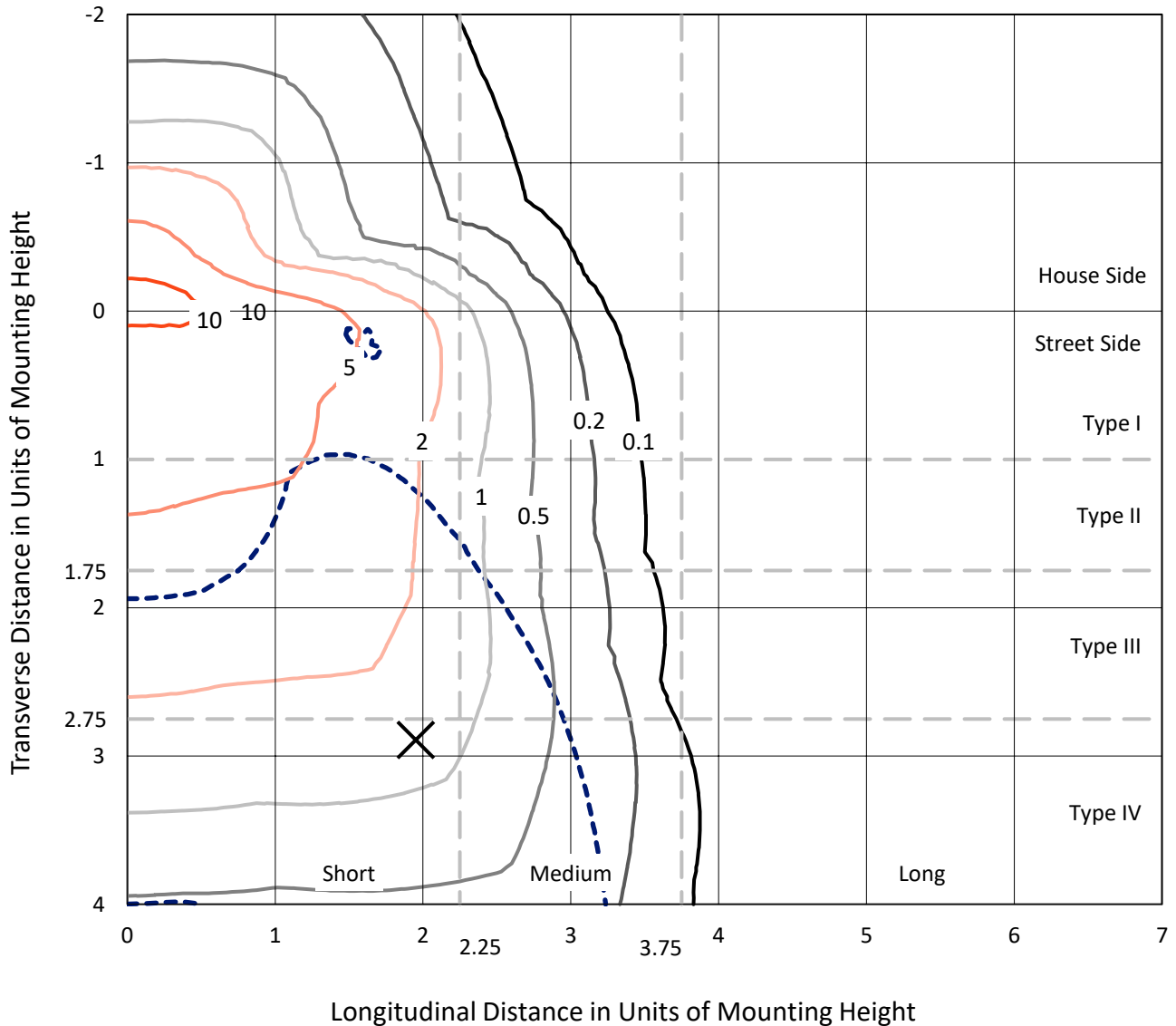
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

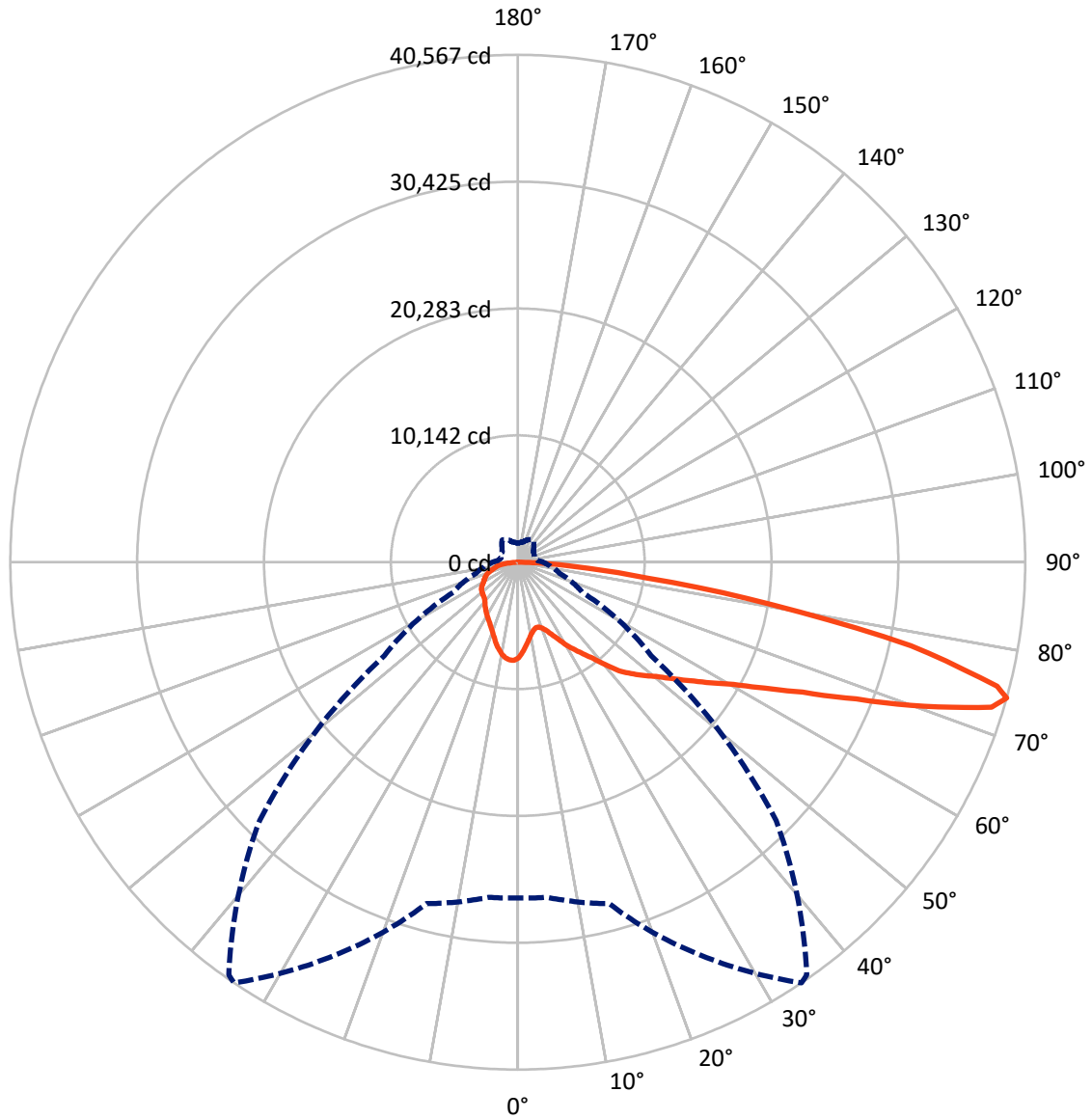
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10658.0	0.0	10658.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	39425.0	0.0	39425.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	50083.0	0.0	50083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.4	1.4
10°-20°	1903.7	3.8
20°-30°	3138.7	6.3
30°-40°	4701.5	9.4
40°-50°	6834.7	13.6
50°-60°	9546.4	19.1
60°-70°	11951.6	23.9
70°-80°	9883.0	19.7
80°-90°	1428.0	2.9
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°	50083.0	100.0
0°-180°	50083.0	100.0

Coefficient of Utilization



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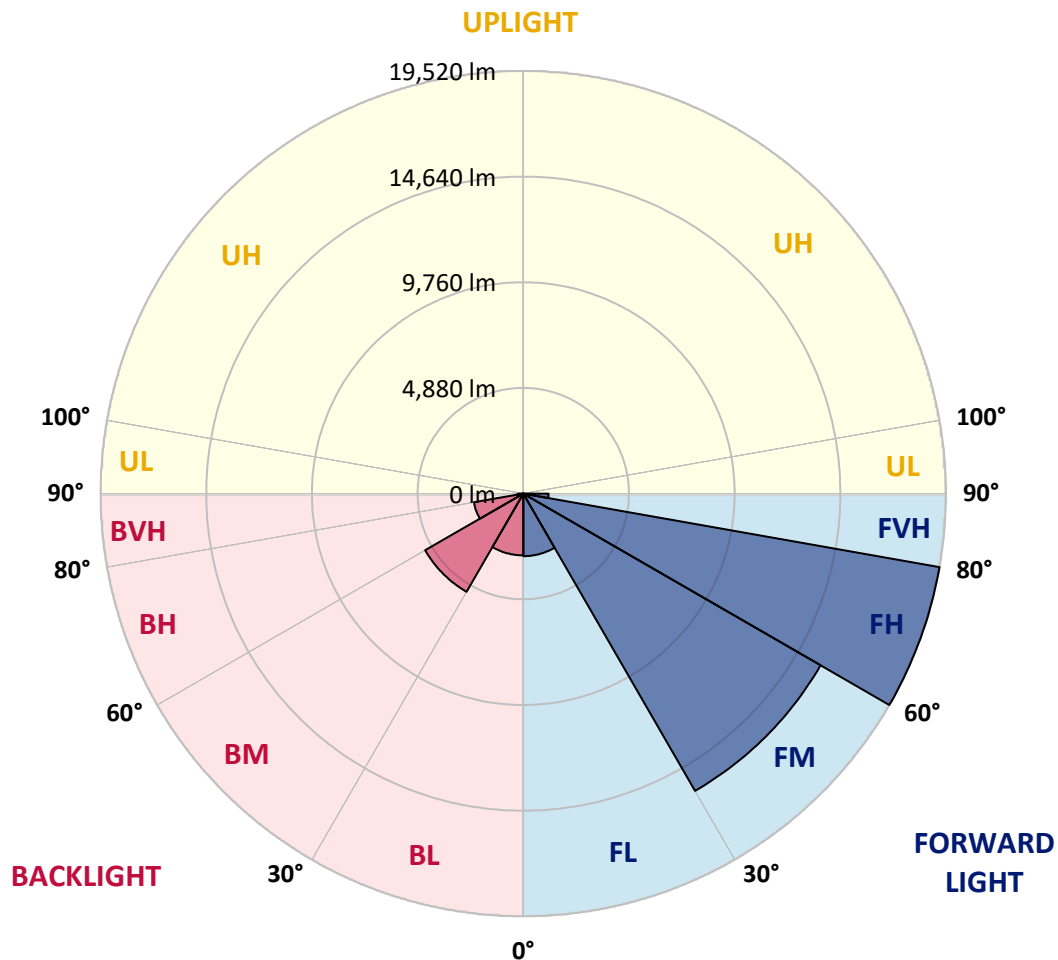
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2887.1	5.8			
FM	(30°-60°)	15848.3	31.6			
FH	(60°-80°)	19519.7	39.0			G5
FVH	(80°-90°)	1169.9	2.3			G5
BL	(0°-30°)	2850.8	5.7	B4/5000		
BM	(30°-60°)	5234.2	10.5	B4/8500		
BH	(60°-80°)	2314.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	258.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7
2.5°	7066.8	7102.9	7122.3	7191.7	7208.3	7230.5	7288.8	7366.5	7466.3	7555.1	7632.8
5°	6478.6	6534.1	6567.4	6628.4	6747.7	6758.8	6914.2	7091.8	7294.3	7483.0	7638.4
7.5°	5920.9	5981.9	6009.7	6120.7	6278.8	6303.8	6531.3	6811.5	7150.0	7435.8	7674.4
10°	5501.9	5532.5	5593.5	5676.7	5865.4	5882.1	6178.9	6553.5	6991.9	7413.6	7735.5
12.5°	5274.4	5291.1	5305.0	5393.7	5579.6	5604.6	5915.4	6339.9	6867.0	7430.3	7835.4
15°	5307.7	5313.3	5252.2	5268.9	5418.7	5454.8	5762.8	6198.4	6789.3	7471.9	7985.2
17.5°	5588.0	5568.5	5418.7	5341.0	5446.5	5463.1	5732.2	6142.9	6753.3	7549.6	8140.6
20°	6029.1	6001.4	5743.3	5571.3	5632.4	5646.2	5832.1	6184.5	6789.3	7677.2	8381.9
22.5°	6578.5	6567.4	6176.2	5968.1	5965.3	5965.3	6062.4	6334.3	6897.6	7852.0	8634.4
25°	7347.0	7288.8	6778.2	6509.1	6434.2	6428.7	6417.6	6581.3	7036.3	8037.9	8934.1
27.5°	8135.0	8035.1	7580.1	7166.7	7005.8	6986.3	6914.2	6930.8	7213.9	8248.8	9275.3
30°	8842.5	8778.7	8351.4	7893.6	7702.2	7657.8	7458.0	7366.5	7510.7	8628.9	9819.2
32.5°	9383.6	9344.7	9011.8	8595.6	8312.6	8304.3	8012.9	7938.0	7974.1	9089.5	10440.7
35°	9821.9	9835.8	9666.6	9305.9	8981.2	8934.1	8739.9	8645.5	8540.1	9755.3	11223.1
37.5°	10421.2	10451.8	10440.7	10129.9	9733.2	9744.2	9699.9	9544.5	9264.3	10498.9	12091.5
40°	11081.6	11103.8	11101.0	10981.7	10773.6	10784.7	10768.1	10590.5	10171.5	11445.1	13057.1
42.5°	11994.4	11889.0	11614.3	11733.6	11855.7	11908.4	12022.2	11852.9	11278.6	12455.0	13964.4
45°	13015.5	12815.7	12194.2	12249.7	12701.9	12801.8	13428.9	13195.8	12480.0	13614.8	15032.6
47.5°	13659.2	13462.2	12937.8	12926.7	13526.0	13623.1	14732.9	14646.9	13573.1	14866.1	16336.6
50°	14233.5	14205.7	13614.8	13756.3	14341.7	14486.0	16153.5	16073.0	14663.5	16342.2	17757.2
52.5°	15085.3	14860.5	14388.9	14680.2	15454.3	15643.0	17563.0	17327.1	15665.2	17646.2	19136.1
55°	15468.2	15415.4	15387.7	15640.2	16702.8	16838.8	18933.6	18392.5	16519.7	18750.5	20184.9
57.5°	16492.0	16394.9	16669.5	16841.6	18173.4	18381.5	20365.3	19505.1	17268.9	19627.2	20695.4
60°	17818.2	17765.5	18018.0	18328.7	19815.9	20132.2	21996.7	20454.0	17870.9	20068.4	20415.2
62.5°	19799.3	19793.7	19746.5	20412.4	22143.8	22435.1	23869.5	21378.0	17965.3	19738.2	18966.9
65°	22640.4	22540.5	22129.9	22856.8	25040.4	25381.7	25820.0	21894.0	17396.5	18043.0	15970.4
67.5°	25612.0	25606.4	25273.5	26216.8	29199.5	29551.8	28258.9	21780.3	15817.8	14616.4	11342.4
70°	28075.8	27956.5	28381.0	30894.7	34512.7	34920.6	30392.5	20440.2	12599.3	9652.7	6739.4
72.5°	28666.7	28672.3	29554.6	34501.6	39615.1	39679.0	31161.1	16566.9	8431.9	5324.4	3371.1
74°	26846.6	26893.8	28261.7	34682.0	40566.8	40278.3	29196.7	13021.0	5701.7	3476.5	2430.5
75°	24504.9	24208.0	26186.3	33480.6	39579.1	39268.3	26896.6	10449.0	4350.5	2777.3	2128.1
77.5°	13101.5	13403.9	16455.9	24984.9	32154.4	31796.4	18237.2	5010.9	2350.1	1933.9	1531.6
80°	4664.0	5144.0	7230.5	13073.7	20615.0	20726.0	8703.8	2297.3	1653.6	1426.1	1082.1
82.5°	1903.3	1956.1	3104.7	5801.6	10468.4	10568.3	3554.2	1365.1	1182.0	982.2	646.5
85°	743.6	765.8	1373.4	2608.1	4467.0	4758.4	1229.1	721.4	726.9	563.2	330.2
87.5°	249.7	283.0	563.2	868.4	1517.7	1487.2	357.9	213.6	260.8	244.2	102.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7	7646.7
2.5°	7671.7	7724.4	7760.4	7799.3	7835.4	7846.5	7838.1	7863.1	7865.9	7868.6	7871.4
5°	7716.0	7788.2	7857.6	7896.4	7913.0	7899.2	7852.0	7827.0	7804.8	7788.2	7793.7
7.5°	7777.1	7879.7	7943.6	7960.2	7915.8	7852.0	7735.5	7643.9	7585.6	7546.8	7544.0
10°	7871.4	7971.3	8024.0	7976.9	7854.8	7699.4	7516.3	7344.3	7213.9	7175.0	7172.2
12.5°	7990.7	8104.5	8101.7	7963.0	7749.3	7471.9	7175.0	6975.2	6797.7	6708.9	6745.0
15°	8146.1	8232.1	8151.7	7901.9	7563.4	7183.3	6817.1	6545.2	6345.4	6251.1	6256.6
17.5°	8326.5	8401.4	8187.7	7793.7	7302.6	6814.3	6389.8	6131.8	5973.6	5904.3	5898.7
20°	8551.2	8573.4	8187.7	7605.1	6966.9	6384.3	5979.2	5798.8	5710.0	5674.0	5685.1
22.5°	8792.6	8748.2	8143.3	7338.7	6525.8	5934.8	5662.9	5582.4	5538.0	5532.5	5538.0
25°	9064.5	8939.6	8051.8	6978.0	6065.2	5546.3	5388.2	5402.1	5410.4	5410.4	5429.8
27.5°	9397.4	9147.7	7899.2	6523.0	5526.9	5185.7	5141.3	5238.4	5282.8	5291.1	5305.0
30°	9835.8	9375.2	7646.7	5954.2	5069.1	4861.0	4938.7	5069.1	5119.1	5149.6	5144.0
32.5°	10357.4	9624.9	7305.4	5385.4	4700.1	4633.5	4727.8	4861.0	4916.5	4933.2	4911.0
35°	10970.6	9907.9	6855.9	4852.7	4378.3	4417.1	4528.1	4569.7	4619.6	4619.6	4630.7
37.5°	11630.9	10135.5	6306.6	4364.4	4128.5	4270.0	4350.5	4311.7	4289.5	4261.7	4275.6
40°	12302.4	10304.7	5593.5	3881.6	3878.8	4117.4	4139.6	4028.7	3939.9	3912.1	3898.3
42.5°	12887.8	10410.1	4949.8	3507.0	3643.0	3967.6	3984.3	3806.7	3665.2	3582.0	3554.2
45°	13578.7	10532.2	4320.0	3196.3	3423.8	3848.3	3889.9	3651.3	3443.2	3268.4	3224.0
47.5°	14524.8	10809.7	3823.3	2954.9	3265.7	3773.4	3831.7	3523.7	3249.0	3021.5	2985.4
50°	15593.0	11189.8	3437.7	2791.2	3143.6	3706.8	3778.9	3393.3	3068.7	2816.2	2788.4
52.5°	16572.4	11395.1	3104.7	2644.2	3024.3	3584.7	3709.6	3299.0	2891.1	2610.9	2585.9
55°	17107.9	11062.2	2777.3	2499.9	2860.6	3426.6	3612.5	3168.5	2719.1	2502.7	2466.6
57.5°	17180.1	10374.1	2480.5	2344.5	2688.5	3232.4	3432.1	3010.4	2608.1	2427.7	2397.2
60°	16622.4	9347.5	2250.2	2216.9	2513.8	3013.2	3229.6	2871.7	2494.3	2344.5	2314.0
62.5°	15235.1	8232.1	2089.2	2100.3	2336.2	2782.9	3079.8	2738.5	2386.1	2252.9	2225.2
65°	12849.0	6794.9	1933.9	1981.0	2178.0	2602.5	2943.8	2627.5	2277.9	2183.6	2158.6
67.5°	8925.8	4905.4	1806.2	1856.2	2028.2	2419.4	2785.7	2508.2	2155.8	2105.9	2067.0
70°	4941.5	3018.7	1656.4	1714.7	1872.8	2214.1	2608.1	2327.9	1978.3	1956.1	1900.6
72.5°	2597.0	1922.8	1487.2	1551.0	1662.0	1950.5	2336.2	2130.9	1803.5	1709.1	1637.0
74°	2028.2	1575.9	1373.4	1440.0	1514.9	1795.1	2175.3	1989.4	1678.6	1567.6	1512.1
75°	1767.4	1403.9	1276.3	1362.3	1428.9	1689.7	2050.4	1889.5	1609.2	1503.8	1453.9
77.5°	1248.6	1051.6	1043.2	1145.9	1182.0	1481.6	1847.9	1720.2	1434.4	1323.5	1276.3
80°	876.8	788.0	826.8	890.6	940.6	1309.6	1714.7	1487.2	1176.4	1046.0	1029.4
82.5°	571.6	516.1	591.0	649.2	665.9	965.5	1384.5	1129.2	857.3	696.4	646.5
85°	263.6	258.0	338.5	330.2	327.4	471.7	821.3	660.3	493.9	369.0	346.8
87.5°	66.6	63.8	83.2	69.4	83.2	72.1	74.9	19.4	2.8	0.0	0.0
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)