

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: P301129

Luminaire Tested: **GLNA-AF-09-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-09-LED-E1-T3R-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52443.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

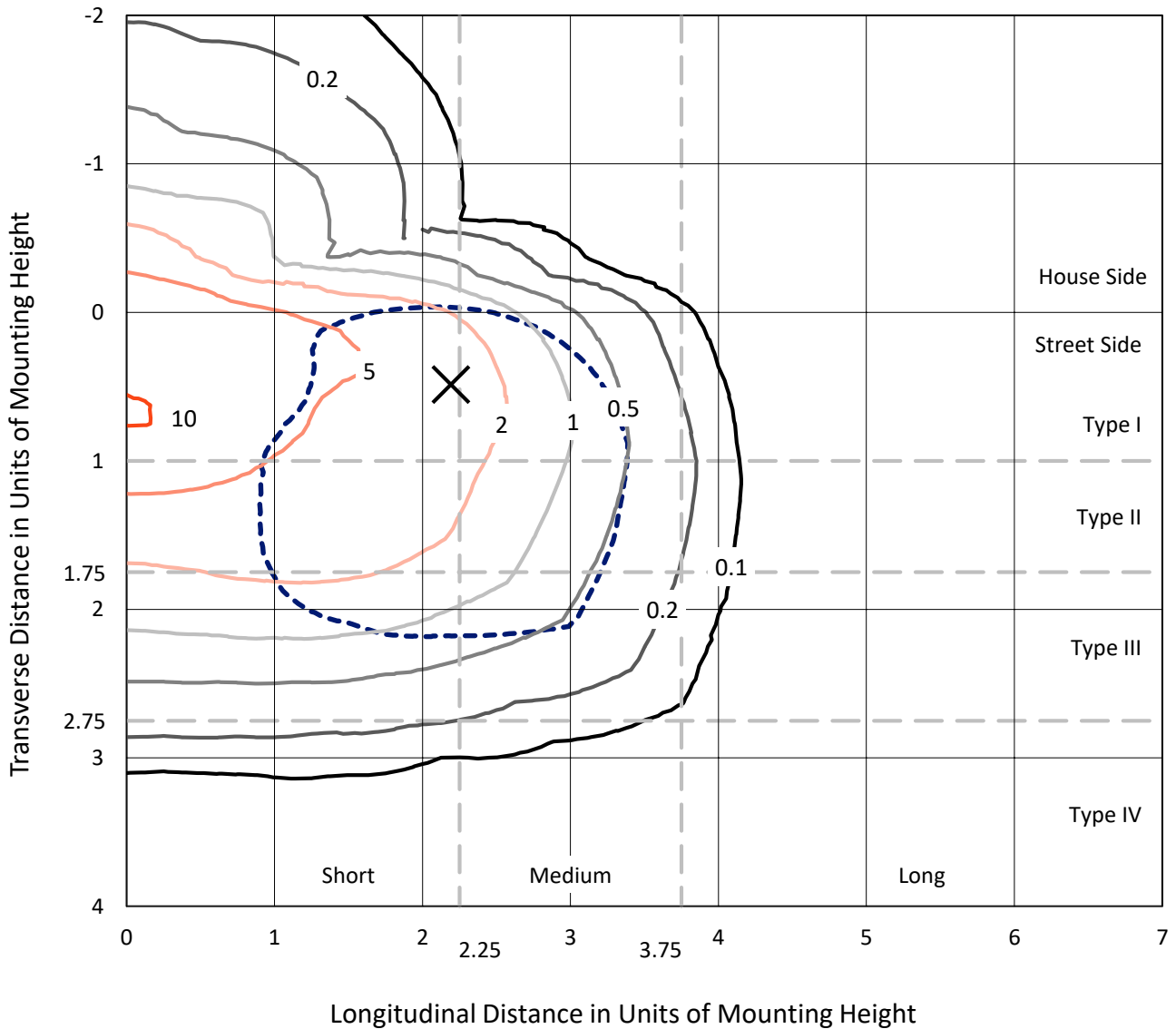
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

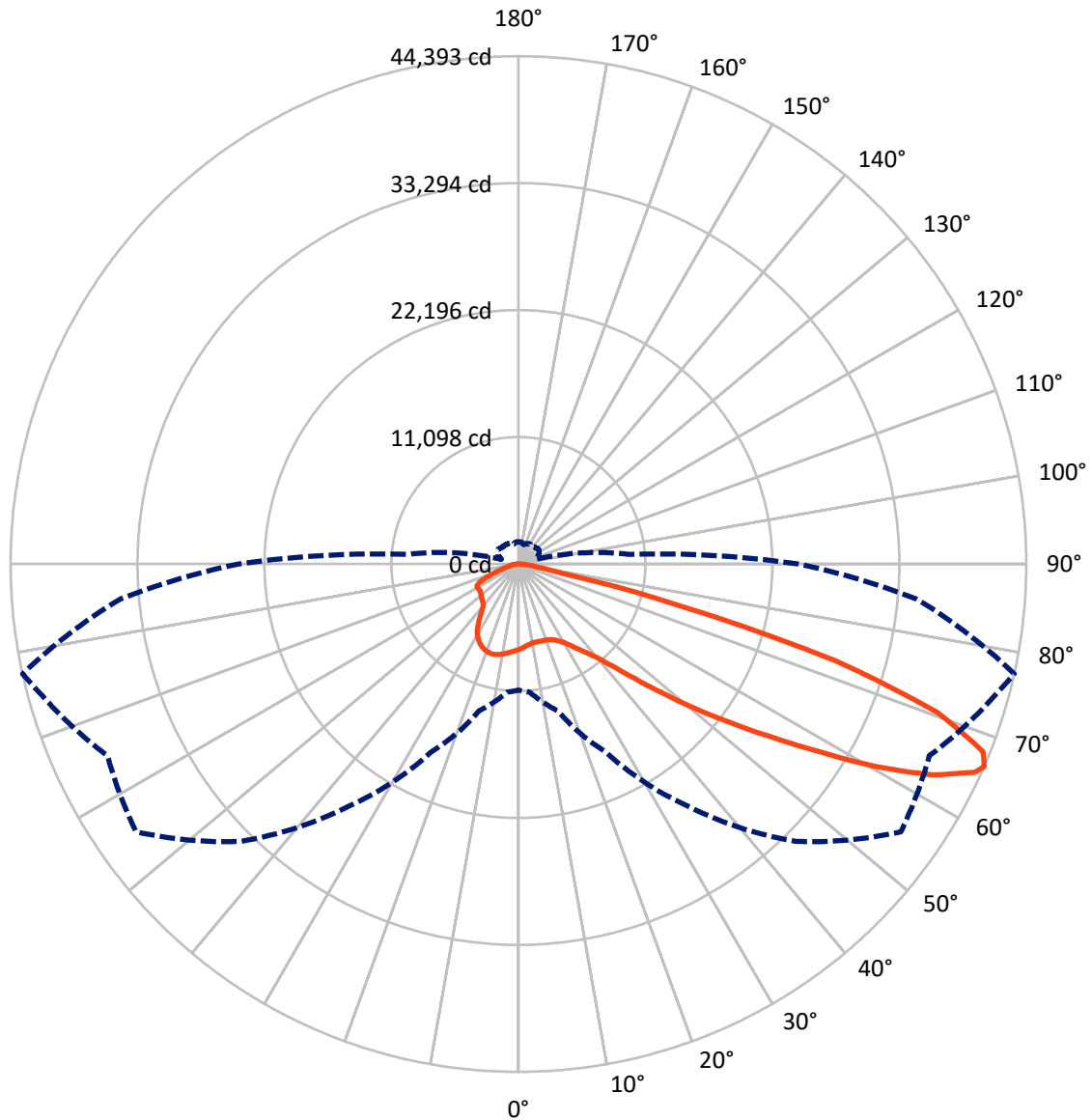


Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8959.7	0.0	8959.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	43484.0	0.0	43484.0
	% Fixture	82.9	0.0	82.9
Total	Lumens	52443.7	0.0	52443.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.7	1.3
10°-20°	1883.7	3.6
20°-30°	3214.8	6.1
30°-40°	5146.3	9.8
40°-50°	7950.5	15.2
50°-60°	11276.6	21.5
60°-70°	15085.0	28.8
70°-80°	6551.2	12.5
80°-90°	668.0	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°	52443.7	100.0
0°-180°	52443.7	100.0



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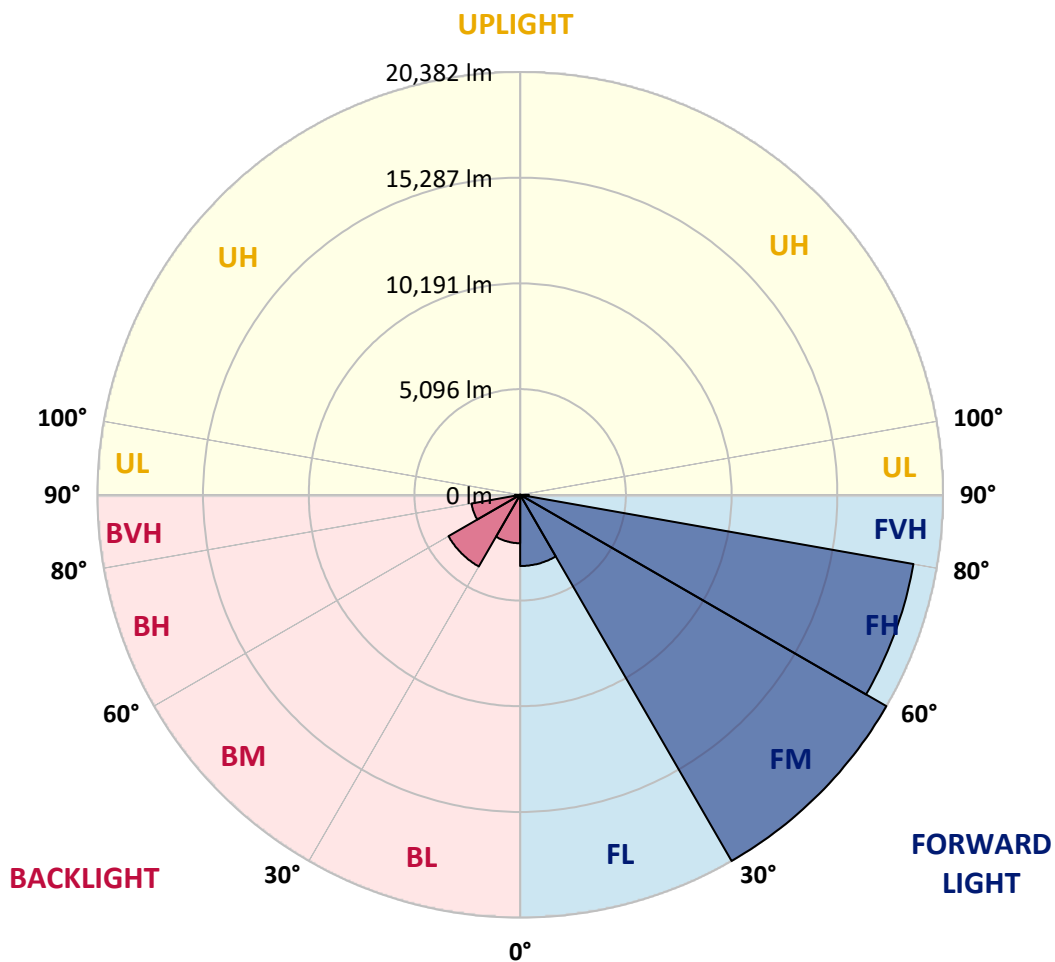
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3432.7	6.5			
FM	(30°-60°)	20382.3	38.9			
FH	(60°-80°)	19250.0	36.7			G5
FVH	(80°-90°)	419.0	0.8			G3/500
BL	(0°-30°)	2333.5	4.4	B3/2500		
BM	(30°-60°)	3991.0	7.6	B3/5000		
BH	(60°-80°)	2386.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	249.0	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4
2.5°	6611.3	6655.6	6693.1	6727.6	6796.7	6910.7	7042.0	7148.5	7302.3	7332.4	7414.1
5°	6004.4	6004.4	6033.6	6086.2	6179.9	6351.0	6529.6	6767.4	7102.0	7180.8	7399.1
7.5°	5709.5	5711.8	5729.0	5773.3	5855.1	6011.1	6207.0	6487.6	6940.7	7072.0	7443.4
10°	5818.3	5793.6	5756.0	5734.3	5746.3	5837.8	6023.9	6336.0	6841.7	7009.7	7543.2
12.5°	6427.5	6381.0	6252.0	6080.9	5917.4	5850.6	5959.4	6264.0	6799.7	6995.5	7674.5
15°	7423.9	7404.4	7163.5	6809.4	6413.3	6080.9	6006.6	6237.0	6804.2	7012.7	7830.5
17.5°	8673.1	8645.3	8328.7	7813.3	7166.5	6519.8	6172.4	6259.5	6821.4	7042.0	7981.3
20°	9934.3	9849.5	9508.1	8893.7	8063.1	7116.3	6447.8	6316.5	6843.9	7074.3	8140.4
22.5°	10875.9	10806.1	10499.2	9902.0	8945.4	7808.0	6816.9	6415.5	6916.0	7168.8	8335.5
25°	11703.4	11707.9	11403.3	10826.3	9837.5	8541.8	7292.6	6680.4	7099.0	7361.6	8603.3
27.5°	12726.8	12667.5	12382.4	11809.9	10719.8	9282.3	7867.3	7045.0	7372.1	7637.0	8955.2
30°	13950.5	13908.4	13579.1	12930.1	11698.2	10077.6	8523.8	7468.2	7724.0	7998.6	9415.8
32.5°	15390.2	15370.7	15028.6	14193.5	12828.1	11014.7	9295.0	8028.6	8249.2	8534.3	10077.6
35°	17080.6	17082.8	16679.2	15675.3	14064.5	12104.8	10169.1	8749.6	8888.4	9185.5	10866.1
37.5°	18121.2	18247.2	18096.4	17073.1	15464.5	13324.0	11304.3	9706.2	9616.9	9917.0	11710.9
40°	18344.0	18497.8	18975.7	18455.8	17031.0	14667.0	12310.4	10625.3	10514.2	10880.4	12798.8
42.5°	18031.9	18245.0	19256.3	19622.5	18693.6	16322.0	13663.1	11990.8	11849.7	12342.6	14151.5
45°	17845.8	18004.9	19174.6	20230.2	20135.6	18193.2	15385.7	13705.1	13653.3	14300.1	15712.8
47.5°	17524.0	17668.0	18792.7	20371.2	20983.4	19907.6	17454.9	15802.1	15903.4	16751.2	17474.5
50°	17697.3	17756.6	18366.5	20011.9	21228.8	21164.3	19766.5	18230.0	18577.3	19635.2	19469.4
52.5°	17672.5	17826.3	18317.0	19422.1	21261.0	21940.0	22043.6	20938.4	21669.9	22883.9	21681.9
55°	14288.1	14570.2	17734.8	19273.6	21374.3	22700.1	24070.8	23793.2	25155.7	26570.7	24179.6
57.5°	13643.6	13822.2	15576.3	19585.7	21979.1	24152.6	26325.3	26935.3	29214.6	30857.7	27222.7
60°	13516.8	13737.4	15553.8	19967.6	23205.7	26518.9	29668.5	30739.2	34153.6	35952.8	30751.2
62.5°	13122.9	13360.7	15407.5	19917.3	24947.9	29792.3	33948.1	34783.1	38836.8	40586.4	33702.7
65°	11874.5	12097.3	14216.0	19117.5	26122.8	33286.3	39012.3	38490.2	42534.1	43849.3	35174.0
66°	11019.2	11237.5	13276.7	18176.0	25849.7	34277.4	40807.0	39637.3	43361.6	44392.5	34886.6
67.5°	9455.6	9626.7	11452.8	16067.0	24400.2	34555.0	42315.8	40499.4	43447.9	43812.6	33244.3
70°	5974.4	6023.9	7443.4	11091.2	18470.8	29967.9	40018.5	38358.9	39865.4	38878.8	27869.4
72.5°	2592.2	2574.9	3573.5	5642.0	10457.2	20108.6	32371.7	31650.7	31271.9	29021.8	19509.2
75°	1442.0	1462.3	1856.2	2619.2	4249.5	9877.3	21176.3	20264.7	17109.8	14600.2	8846.4
77.5°	1156.9	1184.7	1538.8	1858.4	1907.9	3444.5	9909.5	8063.1	4854.2	3895.4	2457.9
80°	914.6	964.1	1343.0	1447.3	1286.0	1419.5	3201.4	2559.9	1920.7	1761.6	1274.0
82.5°	723.3	758.5	1152.4	1095.4	899.6	956.6	1533.5	1494.5	1249.2	1137.4	736.0
85°	520.7	584.5	946.8	825.3	589.7	644.5	1018.1	976.1	715.8	584.5	324.9
87.5°	213.1	277.6	669.2	547.7	329.4	300.1	507.9	477.9	339.1	247.6	161.3
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°	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4	7473.4
2.5°	7465.9	7525.2	7602.4	7649.7	7674.5	7691.7	7718.7	7716.5	7724.0	7726.2	7736.0
5°	7515.4	7614.5	7726.2	7756.3	7756.3	7728.5	7701.5	7656.5	7639.2	7634.7	7639.2
7.5°	7644.5	7753.3	7850.0	7815.5	7741.2	7631.7	7490.7	7366.9	7300.1	7277.6	7273.1
10°	7808.0	7939.3	7979.1	7847.8	7629.5	7366.9	7087.0	6883.7	6767.4	6735.1	6725.4
12.5°	8006.1	8129.9	8075.9	7798.3	7393.9	6970.7	6583.6	6259.5	6016.4	5939.9	5934.6
15°	8224.4	8321.2	8129.9	7644.5	7042.0	6417.8	5729.0	5169.3	4867.0	4770.2	4762.7
17.5°	8427.7	8477.3	8097.6	7376.6	6524.3	5513.7	4599.1	4167.7	4064.2	4089.0	4093.5
20°	8601.1	8601.1	7988.8	6992.5	5709.5	4321.5	3743.8	3737.1	3811.4	3885.6	3900.6
22.5°	8791.6	8677.6	7798.3	6450.0	4554.1	3536.0	3452.0	3521.0	3605.0	3686.8	3699.6
25°	9027.2	8739.9	7532.7	5627.7	3580.3	3211.1	3243.4	3300.4	3342.4	3395.0	3402.5
27.5°	9289.8	8818.6	7183.8	4494.8	3107.6	3008.6	3033.3	3052.8	3047.6	3067.8	3072.3
30°	9604.2	8910.9	6705.1	3513.5	2911.8	2834.5	2790.2	2773.0	2773.0	2805.2	2817.3
32.5°	10025.8	9046.7	6018.6	3010.8	2817.3	2710.7	2567.4	2502.9	2527.6	2636.4	2661.2
35°	10489.5	9193.0	5089.8	2839.8	2797.7	2653.7	2430.9	2311.6	2314.6	2415.9	2448.1
37.5°	10994.4	9379.1	4070.9	2807.5	2842.0	2656.7	2358.8	2195.3	2128.5	2128.5	2141.3
40°	11641.1	9569.6	3295.9	2830.0	2936.5	2686.0	2322.1	2103.7	1915.4	1920.7	1930.4
42.5°	12483.7	9733.2	2879.5	2876.5	3050.6	2725.7	2319.1	1982.2	1818.6	1930.4	2031.7
45°	13420.8	9815.0	2695.7	2919.3	3142.1	2750.5	2280.1	1962.7	1831.4	2163.0	2356.6
47.5°	14498.1	9767.7	2594.4	2933.5	3164.6	2750.5	2235.0	2010.0	1917.7	2505.1	2731.0
50°	15680.6	9631.9	2495.4	2904.3	3157.1	2745.2	2277.1	2056.5	1949.9	2564.4	2720.5
52.5°	17070.8	9517.9	2391.1	2839.8	3104.6	2718.2	2326.6	2037.0	1848.7	2331.8	2440.6
55°	18656.1	9550.1	2274.8	2748.2	3022.8	2666.4	2309.3	1957.4	1742.1	2054.2	2121.0
57.5°	20683.3	9934.3	2136.0	2631.9	2911.8	2579.4	2247.8	1920.7	1709.9	1863.7	1903.4
60°	22945.4	10602.8	1962.7	2514.9	2773.0	2440.6	2200.5	1937.9	1724.9	1848.7	1868.2
62.5°	24605.7	10992.2	1814.1	2343.8	2584.7	2286.8	2141.3	1959.7	1764.6	1900.4	1895.9
65°	25056.6	10352.9	1628.1	2094.0	2329.6	2126.3	2066.2	1984.5	1781.9	1942.4	1920.7
66°	24424.9	9664.2	1546.3	1977.7	2200.5	2046.7	2029.5	1982.2	1774.4	1947.7	1910.2
67.5°	22891.4	8251.4	1405.2	1806.6	1995.0	1928.2	1970.2	1959.7	1754.1	1942.4	1890.7
70°	18668.9	5630.0	1201.9	1504.3	1660.3	1697.1	1856.2	1880.9	1689.6	1856.2	1742.1
72.5°	13044.1	3429.5	1063.1	1167.4	1343.0	1447.3	1700.1	1771.4	1603.3	1620.6	1511.8
75°	6303.7	1821.6	964.1	904.8	1042.9	1209.4	1511.8	1622.8	1466.8	1355.7	1316.0
77.5°	1964.9	1112.6	817.8	728.5	817.8	976.1	1263.4	1422.5	1306.2	1135.2	1120.1
80°	1055.6	817.8	629.5	584.5	646.7	766.0	993.4	1186.9	1122.4	1018.1	909.3
82.5°	696.2	530.4	465.9	453.2	492.9	584.5	738.3	983.6	983.6	872.6	634.7
85°	359.4	324.9	319.6	319.6	344.4	389.4	502.7	758.5	808.0	460.7	381.9
87.5°	178.6	186.1	173.3	180.8	193.6	190.6	240.1	381.9	456.2	279.8	232.6
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)