

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: P157308

Luminaire Tested: **VTS-E12-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157308
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E12-LED-E1-5MQ-8030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (252) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

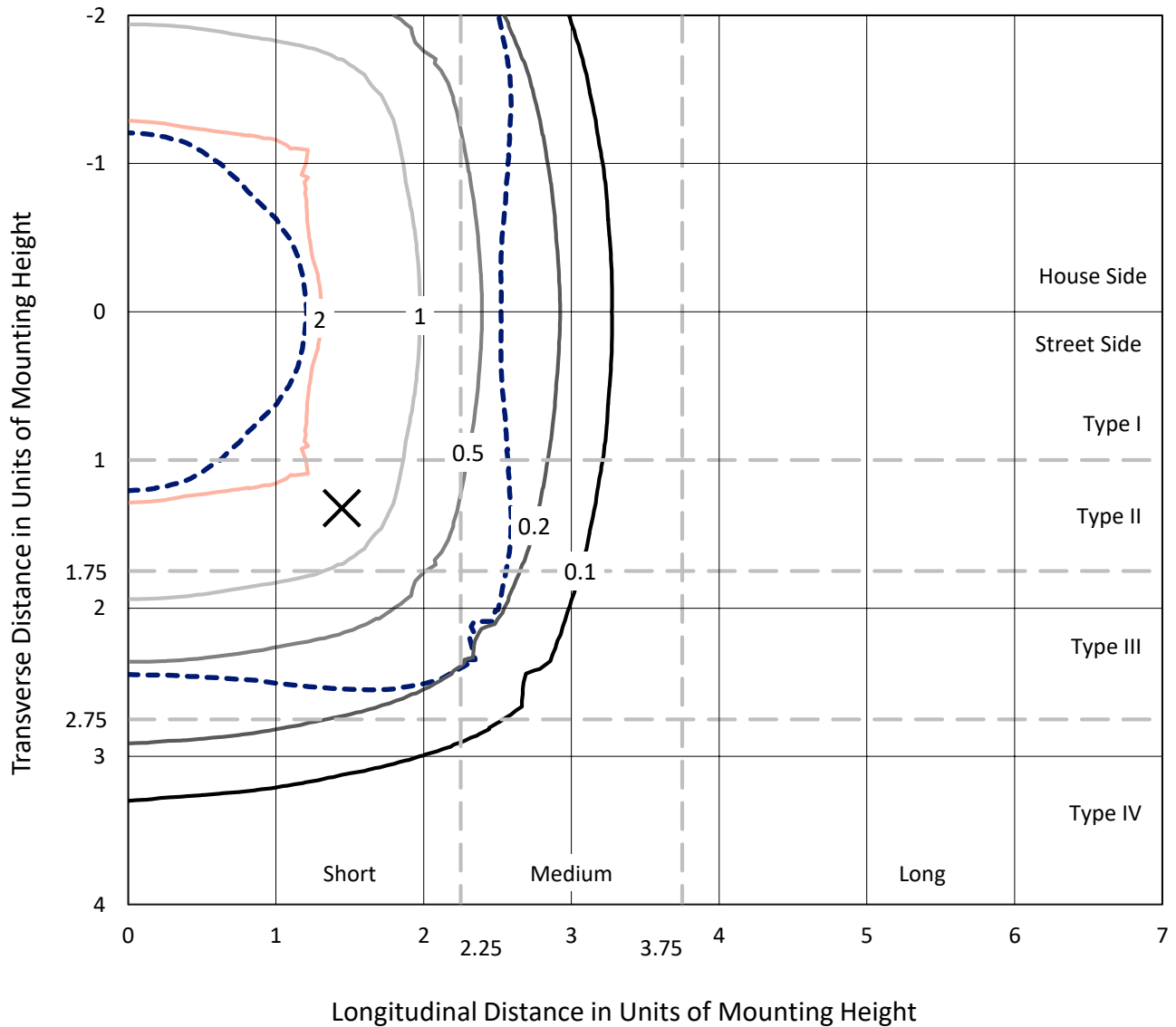
Lumens per Lamp: N/A
Luminaire Lumens: 32397.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 291.7
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

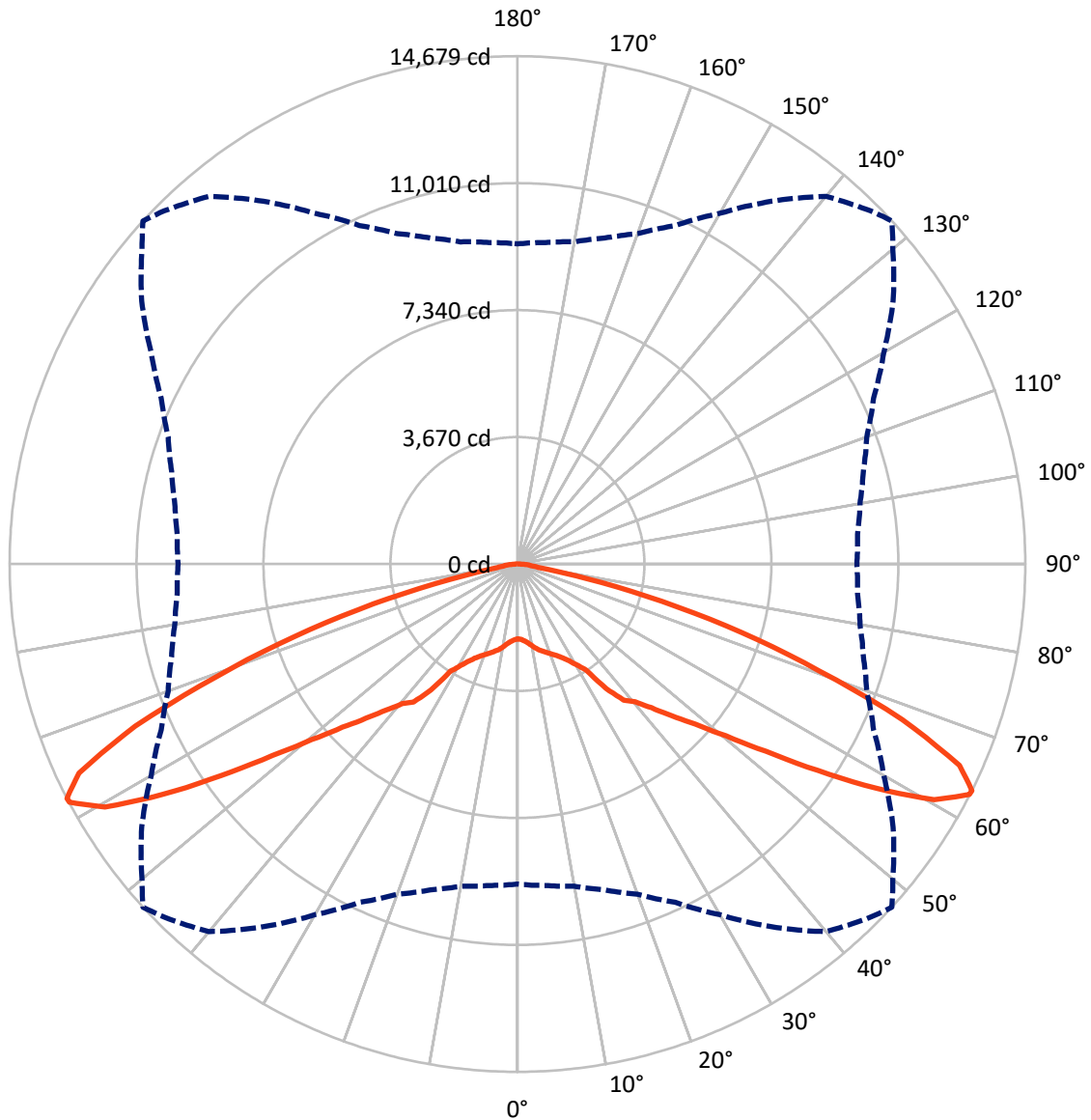
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16198.9	0.0	16198.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16198.9	0.0	16198.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32397.7	0.0	32397.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.2	0.7
10°-20°	738.3	2.3
20°-30°	1412.2	4.4
30°-40°	2701.4	8.3
40°-50°	4674.2	14.4
50°-60°	8394.7	25.9
60°-70°	10208.1	31.5
70°-80°	3686.6	11.4
80°-90°	365.1	1.1
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°	32397.7	100.0
0°-180°	32397.7	100.0



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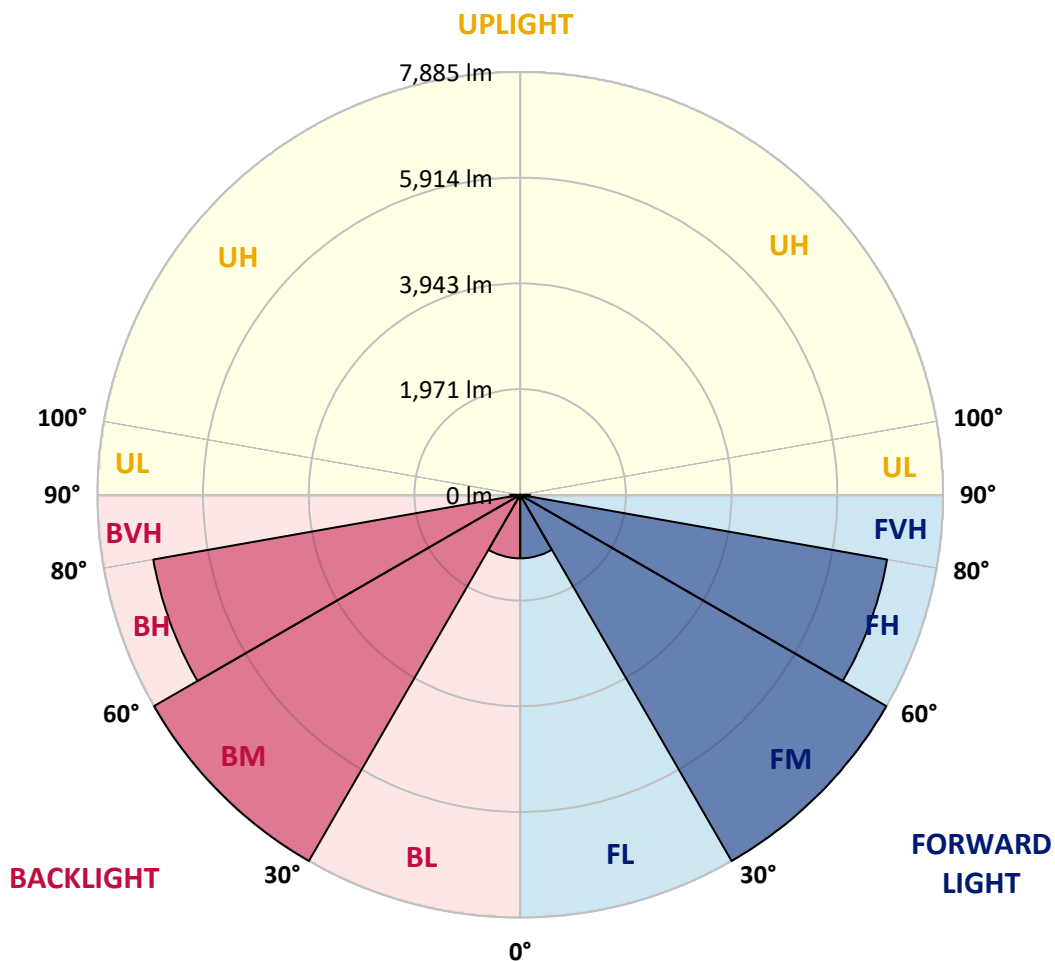
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.8	3.7			
FM	(30°-60°)	7885.1	24.3			
FH	(60°-80°)	6947.3	21.4			G3/7500
FVH	(80°-90°)	182.6	0.6			G2/225
BL	(0°-30°)	1183.8	3.7	B3/2500		
BM	(30°-60°)	7885.1	24.3	B4/8500		
BH	(60°-80°)	6947.3	21.4	B5		G3/7500
BVH	(80°-90°)	182.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3
2.5°	2177.5	2173.4	2175.5	2177.5	2175.5	2173.4	2173.4	2173.4	2177.5	2173.4	2183.6
5°	2220.0	2216.0	2218.0	2218.0	2218.0	2214.0	2214.0	2214.0	2211.9	2214.0	2236.2
7.5°	2301.1	2295.0	2293.0	2297.0	2293.0	2290.9	2288.9	2288.9	2284.9	2284.9	2313.2
10°	2398.3	2390.2	2394.2	2396.3	2390.2	2386.1	2386.1	2386.1	2380.1	2378.0	2414.5
12.5°	2505.6	2501.6	2501.6	2497.5	2495.5	2491.5	2489.4	2491.5	2483.4	2483.4	2519.8
15°	2608.9	2600.8	2602.9	2596.8	2592.7	2588.7	2586.7	2584.6	2580.6	2580.6	2602.9
17.5°	2704.1	2698.1	2696.0	2690.0	2683.9	2677.8	2673.8	2671.7	2665.7	2665.7	2685.9
20°	2803.4	2797.3	2793.3	2783.1	2773.0	2766.9	2758.8	2754.8	2746.7	2748.7	2771.0
22.5°	2916.8	2906.7	2898.6	2890.5	2872.3	2860.1	2850.0	2841.9	2837.8	2837.8	2868.2
25°	3068.8	3062.7	3050.5	3024.2	3001.9	2983.7	2967.5	2959.4	2951.3	2947.2	2993.8
27.5°	3255.1	3249.0	3232.8	3206.5	3176.1	3145.7	3127.5	3113.3	3103.2	3097.1	3164.0
30°	3502.2	3492.1	3477.9	3435.4	3409.0	3362.5	3342.2	3321.9	3299.7	3305.7	3384.7
32.5°	3986.3	3972.2	3927.6	3881.0	3800.0	3737.2	3672.4	3623.8	3577.2	3571.1	3656.2
35°	4425.9	4419.8	4411.7	4379.3	4348.9	4310.4	4280.0	4229.4	4186.9	4176.7	4415.8
37.5°	4662.9	4677.1	4664.9	4660.9	4660.9	4679.1	4735.8	4792.5	4833.0	4857.3	4991.0
40°	5025.5	5025.5	5011.3	5003.2	4987.0	5011.3	5035.6	5078.1	5096.4	5098.4	5234.1
42.5°	5436.7	5438.7	5424.5	5400.2	5392.1	5414.4	5446.8	5487.3	5511.6	5517.7	5675.7
45°	5894.4	5888.4	5876.2	5868.1	5874.2	5894.4	5932.9	6011.9	6048.4	6076.7	6248.9
47.5°	6390.7	6431.2	6396.8	6402.9	6402.9	6465.6	6552.7	6617.6	6676.3	6731.0	6913.3
50°	7040.9	7047.0	7053.1	7071.3	7083.4	7166.5	7275.9	7352.8	7437.9	7508.8	7806.6
52.5°	7909.9	7897.7	7928.1	7948.4	8017.2	8061.8	8244.1	8341.3	8458.8	8550.0	8985.5
55°	8949.0	8942.9	8987.5	9003.7	9094.8	9204.2	9406.8	9619.5	9820.0	9931.4	10526.9
57.5°	9694.4	9710.6	9787.6	9894.9	10073.2	10306.1	10608.0	11077.9	11458.7	11580.2	12236.5
60°	9858.5	9911.2	10026.6	10241.3	10547.2	10980.7	11574.2	12293.2	12990.0	13223.0	13838.8
62.5°	9398.7	9459.5	9629.6	9886.8	10285.9	10928.0	11784.8	12799.6	13834.7	14353.2	14663.2
63°	9252.8	9327.8	9455.4	9753.2	10158.3	10792.3	11703.8	12797.6	13871.2	14436.3	14679.4
65°	8568.2	8582.4	8772.8	9070.5	9526.3	10184.6	11104.2	12368.2	13559.2	14211.5	14043.3
67.5°	7373.1	7431.8	7591.9	7891.7	8335.3	9019.9	10018.5	11187.3	12234.5	12755.1	12003.6
70°	5957.2	5953.2	6151.7	6392.7	6783.7	7385.3	8260.3	9315.6	10146.1	10524.9	9267.0
72.5°	4255.7	4150.4	4296.3	4563.6	4883.7	5363.7	6056.5	6876.8	7620.2	7948.4	6775.6
75°	1938.5	1910.1	2039.8	2305.1	2629.2	3056.6	3625.8	4334.7	5047.7	5432.6	4316.5
77.5°	652.2	660.3	711.0	806.2	980.4	1195.1	1549.6	2003.3	2580.6	2961.4	2025.6
80°	437.5	449.7	465.9	480.1	500.3	532.7	609.7	727.2	905.4	1095.8	640.1
82.5°	358.5	372.7	409.2	425.4	437.5	447.7	453.7	461.8	461.8	465.9	405.1
85°	257.2	281.6	330.2	360.6	372.7	380.8	390.9	403.1	384.9	368.7	314.0
87.5°	89.1	121.5	178.3	196.5	210.7	212.7	226.9	251.2	239.0	194.5	95.2
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3	2163.3
2.5°	2173.4	2171.4	2173.4	2175.5	2175.5	2175.5	2177.5	2179.5	2179.5
5°	2214.0	2216.0	2214.0	2216.0	2216.0	2218.0	2218.0	2222.1	2222.1
7.5°	2282.8	2286.9	2284.9	2288.9	2288.9	2293.0	2290.9	2297.0	2297.0
10°	2376.0	2380.1	2384.1	2386.1	2384.1	2388.2	2392.2	2394.2	2392.2
12.5°	2481.3	2483.4	2481.3	2485.4	2485.4	2489.4	2489.4	2495.5	2495.5
15°	2578.6	2576.5	2574.5	2580.6	2584.6	2586.7	2590.7	2596.8	2590.7
17.5°	2665.7	2667.7	2663.6	2669.7	2677.8	2683.9	2687.9	2696.0	2694.0
20°	2752.8	2748.7	2752.8	2762.9	2771.0	2779.1	2787.2	2799.3	2797.3
22.5°	2837.8	2841.9	2852.0	2860.1	2874.3	2886.4	2896.6	2912.8	2918.9
25°	2957.3	2957.3	2973.5	2983.7	3003.9	3020.1	3042.4	3060.6	3070.8
27.5°	3109.3	3109.3	3127.5	3149.8	3180.2	3208.5	3232.8	3257.1	3253.1
30°	3315.9	3326.0	3342.2	3370.6	3411.1	3445.5	3477.9	3502.2	3504.3
32.5°	3587.3	3599.5	3648.1	3721.0	3806.1	3870.9	3919.5	3978.2	3986.3
35°	4203.1	4233.5	4296.3	4355.0	4389.4	4427.9	4452.2	4454.2	4458.3
37.5°	4851.3	4798.6	4750.0	4705.4	4685.2	4681.1	4681.1	4689.2	4693.3
40°	5088.3	5061.9	5039.6	5011.3	5019.4	5017.4	5031.5	5043.7	5051.8
42.5°	5493.4	5473.1	5452.9	5416.4	5436.7	5430.6	5450.8	5469.1	5479.2
45°	6058.5	5995.7	5951.1	5892.4	5912.7	5900.5	5900.5	5922.8	5926.8
47.5°	6682.4	6609.5	6518.3	6445.4	6421.1	6398.8	6419.1	6419.1	6396.8
50°	7429.8	7342.7	7235.4	7117.9	7077.4	7055.1	7063.2	7073.3	7010.5
52.5°	8444.6	8347.4	8195.5	8017.2	7978.8	7960.5	7956.5	7942.3	7926.1
55°	9820.0	9637.7	9451.3	9216.4	9145.5	9125.2	9127.3	9111.1	9149.5
57.5°	11442.5	11175.1	10745.7	10460.1	10289.9	10225.1	10166.4	10142.1	10144.1
60°	13048.8	12503.9	11861.8	11363.5	11007.0	10780.1	10601.9	10502.6	10474.3
62.5°	14083.8	13227.0	12262.9	11454.6	10869.3	10494.5	10213.0	10034.7	9978.0
63°	14164.9	13257.4	12226.4	11359.4	10743.7	10350.7	10055.0	9870.6	9809.9
65°	13988.6	12951.5	11750.4	10717.3	10042.8	9607.3	9287.3	9113.1	9066.5
67.5°	12619.4	11756.5	10533.0	9465.5	8784.9	8343.4	7976.7	7810.6	7758.0
70°	10265.6	9674.2	8671.5	7760.0	7126.0	6700.6	6329.9	6192.2	6190.2
72.5°	7610.1	6842.4	6244.9	5576.4	5023.4	4685.2	4363.1	4209.2	4132.2
75°	5033.6	4211.2	3542.7	2979.6	2428.7	2124.8	1762.3	1606.3	1515.1
77.5°	2536.0	1879.7	1347.0	933.8	725.2	595.5	544.9	518.5	516.5
80°	844.7	634.0	544.9	510.4	500.3	502.3	496.3	486.1	474.0
82.5°	467.9	492.2	496.3	482.1	482.1	474.0	465.9	427.4	407.1
85°	401.1	441.6	445.6	437.5	435.5	423.3	409.2	356.5	326.1
87.5°	251.2	289.7	283.6	253.2	279.5	261.3	247.1	160.0	117.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)