

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: P157314

Luminaire Tested: **VTS-F12-LED-E1-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157314
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-F12-LED-E1-5MQ-7030
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

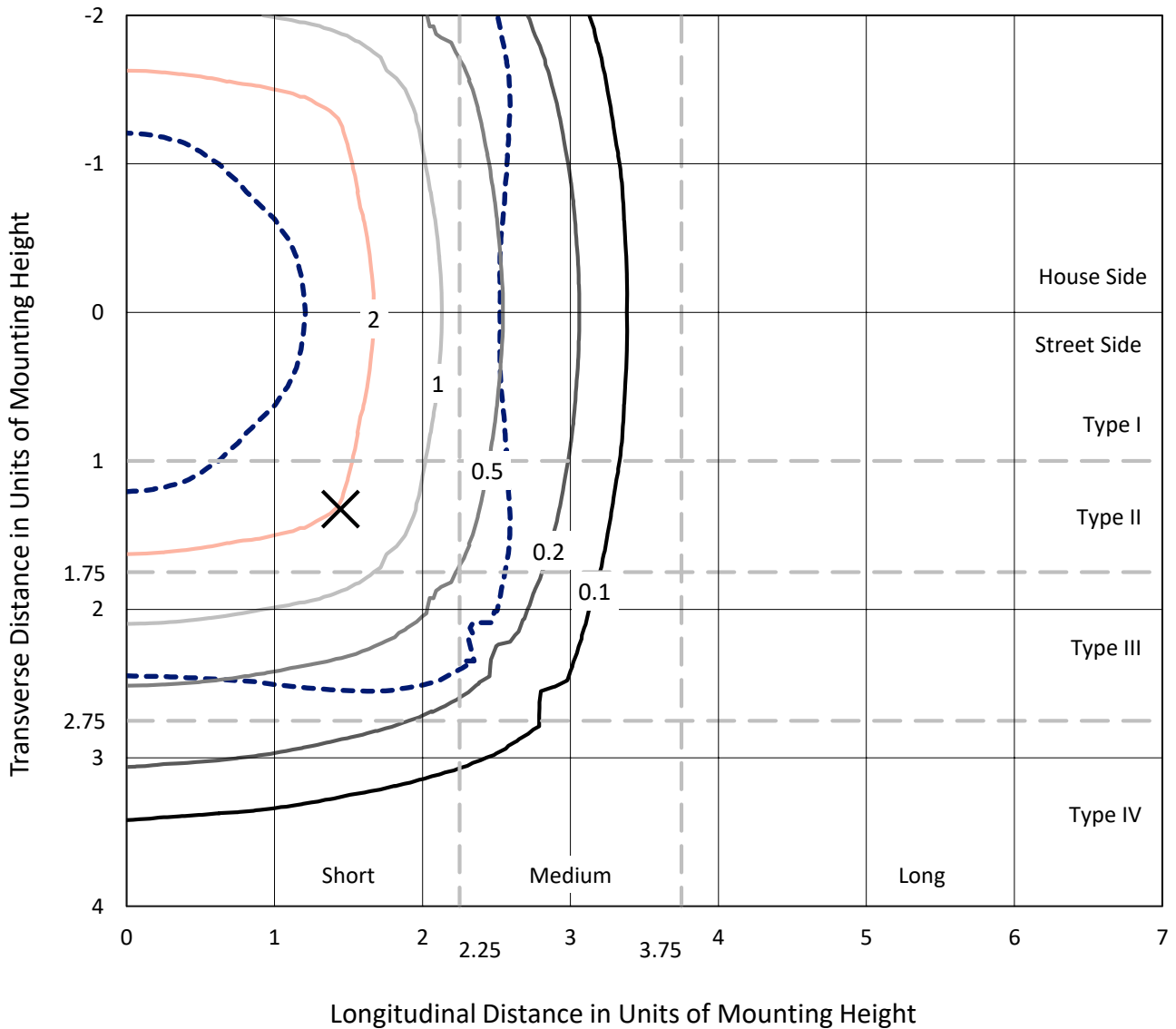
Lumens per Lamp: N/A
Luminaire Lumens: 28943 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 306.6
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

REPORT NUMBER: P157314
 CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

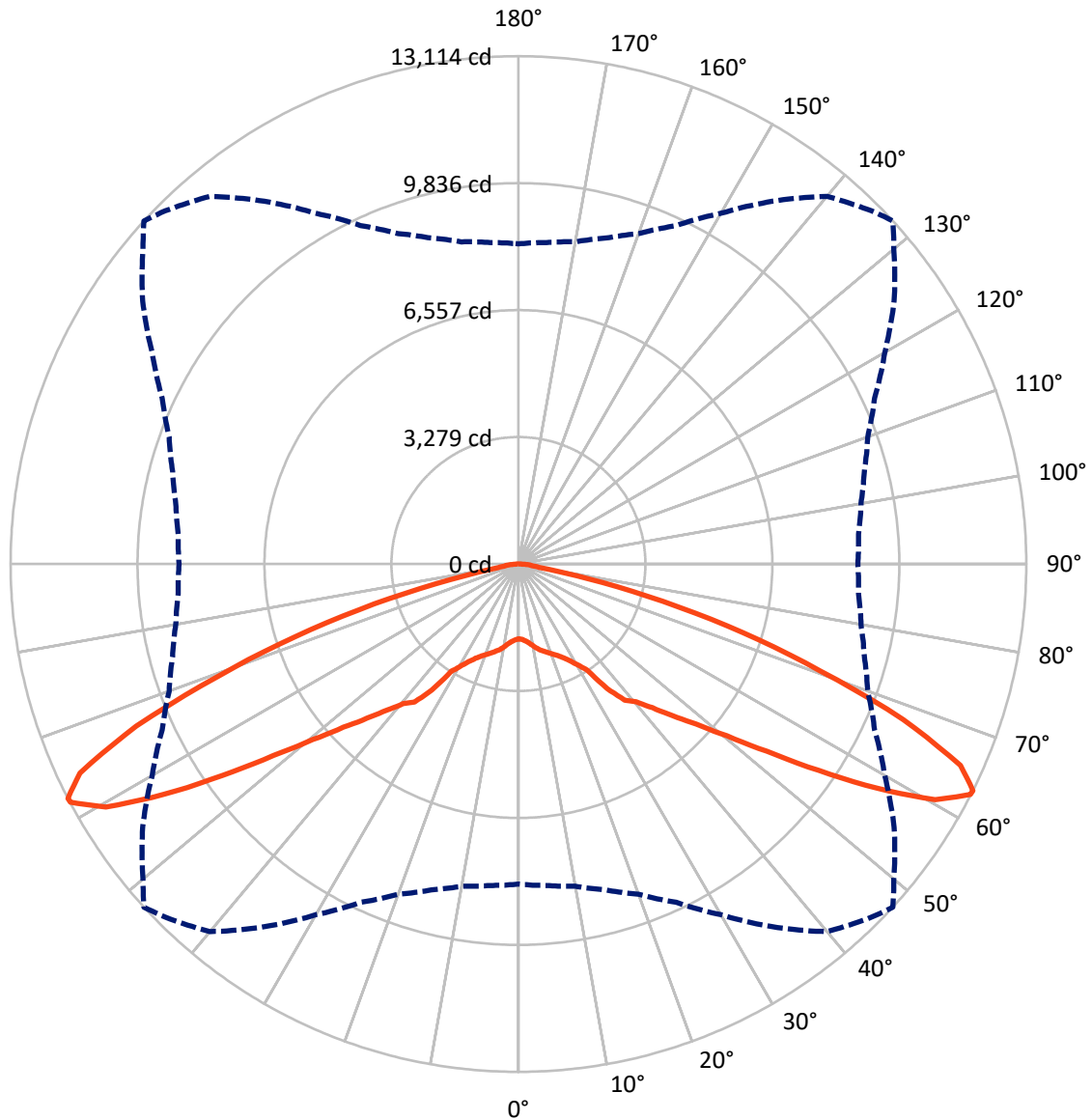
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157314
CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P157314

CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

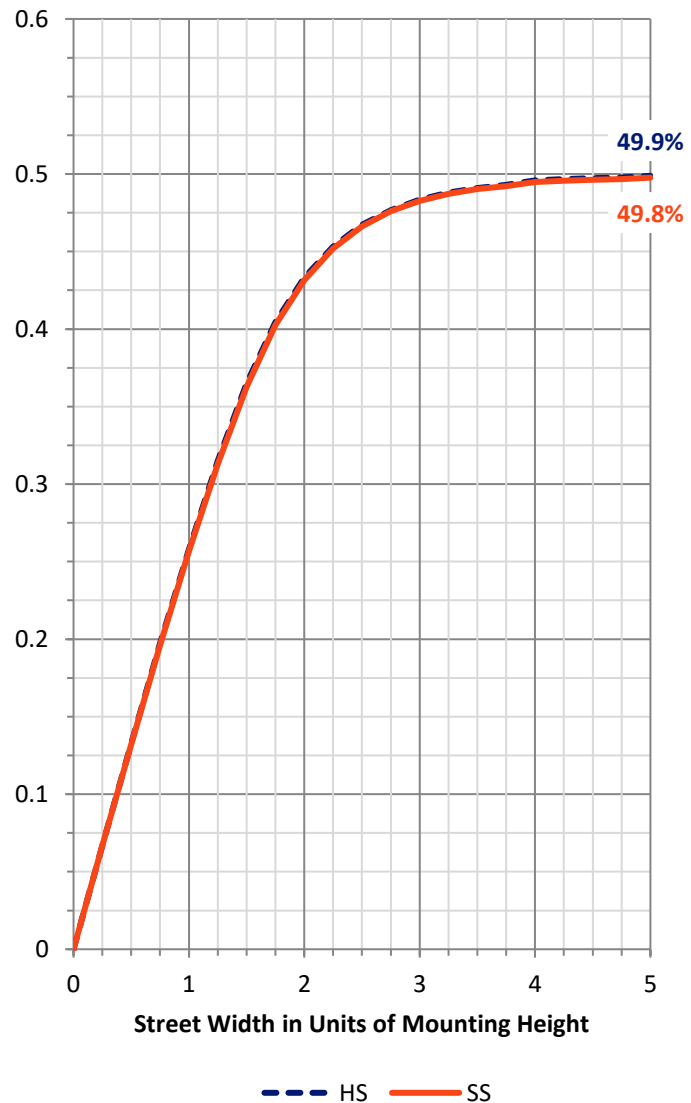
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14471.5	0.0	14471.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14471.5	0.0	14471.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28943.0	0.0	28943.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	0.7
10°-20°	659.5	2.3
20°-30°	1261.6	4.4
30°-40°	2413.3	8.3
40°-50°	4175.8	14.4
50°-60°	7499.5	25.9
60°-70°	9119.5	31.5
70°-80°	3293.5	11.4
80°-90°	326.2	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°	28943.0	100.0
0°-180°	28943.0	100.0



REPORT NUMBER: P157314

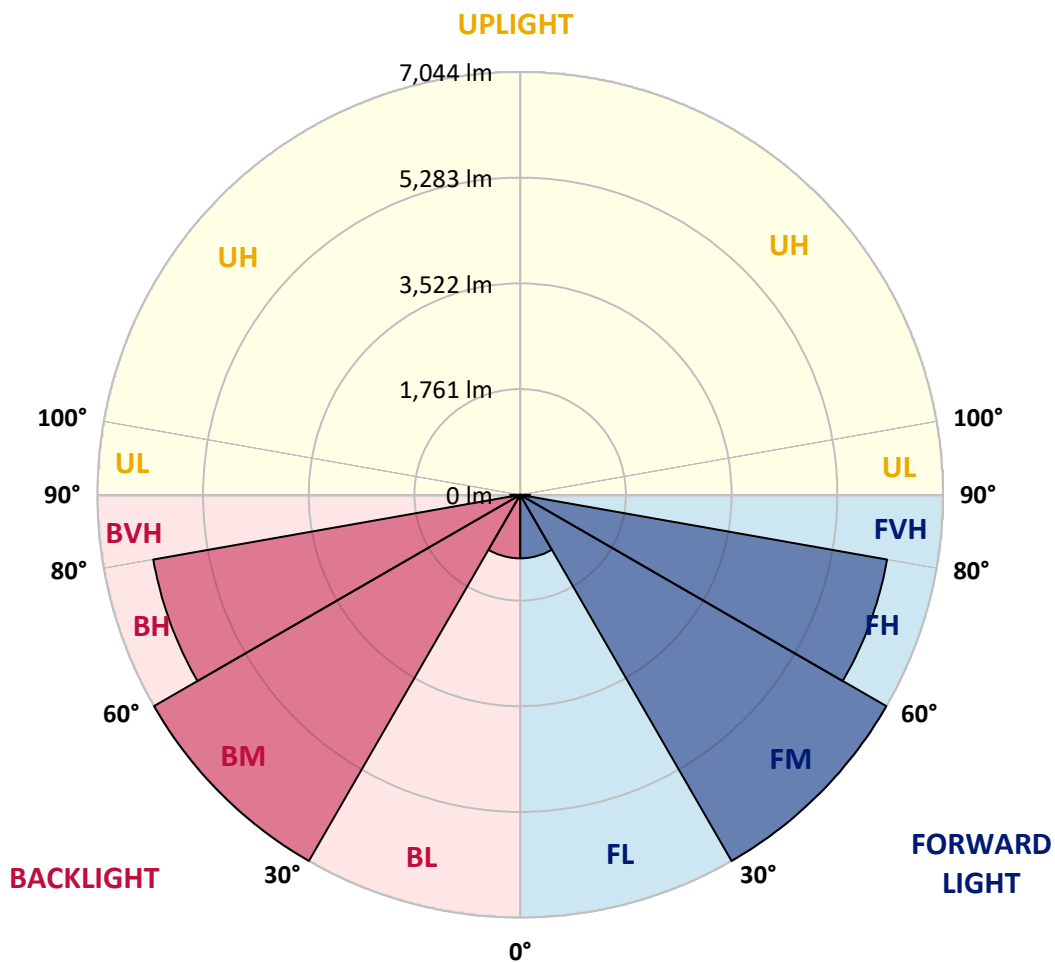
CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.6	3.7			
FM	(30°-60°)	7044.3	24.3			
FH	(60°-80°)	6206.5	21.4			G3/7500
FVH	(80°-90°)	163.1	0.6			G2/225
BL	(0°-30°)	1057.6	3.7	B3/2500		
BM	(30°-60°)	7044.3	24.3	B4/8500		
BH	(60°-80°)	6206.5	21.4	B5		G3/7500
BVH	(80°-90°)	163.1	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





REPORT NUMBER: P157314

CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6
2.5°	1945.3	1941.7	1943.5	1945.3	1943.5	1941.7	1941.7	1941.7	1945.3	1941.7	1950.7
5°	1983.3	1979.7	1981.5	1981.5	1981.5	1977.9	1977.9	1977.9	1976.1	1977.9	1997.8
7.5°	2055.7	2050.3	2048.4	2052.1	2048.4	2046.6	2044.8	2044.8	2041.2	2041.2	2066.5
10°	2142.5	2135.3	2138.9	2140.7	2135.3	2131.7	2131.7	2131.7	2126.3	2124.5	2157.0
12.5°	2238.5	2234.8	2234.8	2231.2	2229.4	2225.8	2224.0	2225.8	2218.6	2218.6	2251.1
15°	2330.7	2323.5	2325.3	2319.9	2316.3	2312.6	2310.8	2309.0	2305.4	2305.4	2325.3
17.5°	2415.8	2410.4	2408.6	2403.1	2397.7	2392.3	2388.7	2386.8	2381.4	2381.4	2399.5
20°	2504.5	2499.0	2495.4	2486.4	2477.3	2471.9	2464.7	2461.0	2453.8	2455.6	2475.5
22.5°	2605.8	2596.8	2589.5	2582.3	2566.0	2555.1	2546.1	2538.8	2535.2	2535.2	2562.4
25°	2741.5	2736.1	2725.2	2701.7	2681.8	2665.5	2651.0	2643.8	2636.6	2632.9	2674.6
27.5°	2908.0	2902.6	2888.1	2864.6	2837.4	2810.3	2794.0	2781.3	2772.3	2766.9	2826.6
30°	3128.8	3119.7	3107.1	3069.1	3045.5	3003.9	2985.8	2967.7	2947.8	2953.2	3023.8
32.5°	3561.3	3548.6	3508.8	3467.2	3394.8	3338.7	3280.8	3237.3	3195.7	3190.3	3266.3
35°	3953.9	3948.5	3941.3	3912.3	3885.2	3850.8	3823.7	3778.4	3740.4	3731.4	3944.9
37.5°	4165.7	4178.3	4167.5	4163.9	4163.9	4180.1	4230.8	4281.5	4317.7	4339.4	4458.8
40°	4489.6	4489.6	4476.9	4469.7	4455.2	4476.9	4498.6	4536.6	4552.9	4554.7	4676.0
42.5°	4856.9	4858.7	4846.1	4824.4	4817.1	4837.0	4866.0	4902.2	4923.9	4929.3	5070.5
45°	5265.9	5260.5	5249.6	5242.4	5247.8	5265.9	5300.3	5370.8	5403.4	5428.8	5582.6
47.5°	5709.2	5745.4	5714.7	5720.1	5720.1	5776.2	5854.0	5911.9	5964.4	6013.2	6176.1
50°	6290.1	6295.5	6301.0	6317.3	6328.1	6402.3	6500.0	6568.8	6644.8	6708.1	6974.1
52.5°	7066.4	7055.6	7082.7	7100.8	7162.3	7202.1	7365.0	7451.9	7556.8	7638.3	8027.3
55°	7994.7	7989.3	8029.1	8043.6	8125.0	8222.8	8403.7	8593.7	8772.9	8872.4	9404.4
57.5°	8660.7	8675.1	8743.9	8839.8	8999.1	9207.2	9476.8	9896.6	10236.8	10345.4	10931.7
60°	8807.2	8854.3	8957.4	9149.3	9422.5	9809.8	10340.0	10982.4	11604.9	11813.0	12363.1
62.5°	8396.5	8450.8	8602.8	8832.6	9189.1	9762.7	10528.2	11434.8	12359.5	12822.7	13099.6
63°	8266.2	8333.1	8447.1	8713.1	9075.1	9641.5	10455.8	11433.0	12392.0	12896.9	13114.1
65°	7654.5	7667.2	7837.3	8103.3	8510.5	9098.6	9920.1	11049.3	12113.4	12696.0	12545.8
67.5°	6586.9	6639.4	6782.3	7050.1	7446.4	8058.1	8950.2	9994.3	10929.9	11395.0	10723.6
70°	5322.0	5318.4	5495.7	5711.0	6060.3	6597.7	7379.5	8322.3	9064.2	9402.6	8278.8
72.5°	3801.9	3707.8	3838.1	4077.0	4362.9	4791.8	5410.7	6143.5	6807.7	7100.8	6053.1
75°	1731.8	1706.4	1822.3	2059.3	2348.8	2730.7	3239.2	3872.5	4509.5	4853.3	3856.2
77.5°	582.7	589.9	635.2	720.2	875.8	1067.7	1384.3	1789.7	2305.4	2645.6	1809.6
80°	390.9	401.7	416.2	428.9	447.0	475.9	544.7	649.6	808.9	979.0	571.8
82.5°	320.3	333.0	365.5	380.0	390.9	399.9	405.3	412.6	412.6	416.2	361.9
85°	229.8	251.5	295.0	322.1	333.0	340.2	349.2	360.1	343.8	329.3	280.5
87.5°	79.6	108.6	159.2	175.5	188.2	190.0	202.7	224.4	213.5	173.7	85.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157314

CATALOG NUMBER: VTS-F12-LED-E1-5MQ-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6	1932.6
2.5°	1941.7	1939.9	1941.7	1943.5	1943.5	1943.5	1945.3	1947.1	1947.1
5°	1977.9	1979.7	1977.9	1979.7	1979.7	1981.5	1981.5	1985.1	1985.1
7.5°	2039.4	2043.0	2041.2	2044.8	2044.8	2048.4	2046.6	2052.1	2052.1
10°	2122.6	2126.3	2129.9	2131.7	2129.9	2133.5	2137.1	2138.9	2137.1
12.5°	2216.7	2218.6	2216.7	2220.4	2220.4	2224.0	2224.0	2229.4	2229.4
15°	2303.6	2301.8	2300.0	2305.4	2309.0	2310.8	2314.5	2319.9	2314.5
17.5°	2381.4	2383.2	2379.6	2385.0	2392.3	2397.7	2401.3	2408.6	2406.7
20°	2459.2	2455.6	2459.2	2468.3	2475.5	2482.7	2490.0	2500.8	2499.0
22.5°	2535.2	2538.8	2547.9	2555.1	2567.8	2578.7	2587.7	2602.2	2607.6
25°	2642.0	2642.0	2656.5	2665.5	2683.6	2698.1	2718.0	2734.3	2743.3
27.5°	2777.7	2777.7	2794.0	2813.9	2841.0	2866.4	2888.1	2909.8	2906.2
30°	2962.3	2971.3	2985.8	3011.1	3047.3	3078.1	3107.1	3128.8	3130.6
32.5°	3204.8	3215.6	3259.1	3324.2	3400.2	3458.1	3501.5	3554.0	3561.3
35°	3754.9	3782.0	3838.1	3890.6	3921.4	3955.8	3977.5	3979.3	3982.9
37.5°	4334.0	4286.9	4243.5	4203.7	4185.6	4181.9	4181.9	4189.2	4192.8
40°	4545.7	4522.2	4502.2	4476.9	4484.1	4482.3	4495.0	4505.9	4513.1
42.5°	4907.6	4889.5	4871.4	4838.8	4856.9	4851.5	4869.6	4885.9	4894.9
45°	5412.5	5356.4	5316.6	5264.1	5282.2	5271.3	5271.3	5291.2	5294.8
47.5°	5969.8	5904.7	5823.2	5758.1	5736.4	5716.5	5734.6	5734.6	5714.7
50°	6637.6	6559.7	6463.8	6358.9	6322.7	6302.8	6310.0	6319.1	6263.0
52.5°	7544.2	7457.3	7321.6	7162.3	7128.0	7111.7	7108.0	7095.4	7080.9
55°	8772.9	8610.0	8443.5	8233.6	8170.3	8152.2	8154.0	8139.5	8173.9
57.5°	10222.3	9983.5	9599.8	9344.7	9192.7	9134.8	9082.3	9060.6	9062.4
60°	11657.3	11170.6	10596.9	10151.8	9833.3	9630.6	9471.4	9382.7	9357.4
62.5°	12582.0	11816.6	10955.2	10233.2	9710.2	9375.5	9123.9	8964.7	8914.0
63°	12654.4	11843.7	10922.7	10148.1	9598.0	9247.0	8982.8	8818.1	8763.8
65°	12497.0	11570.5	10497.4	9574.5	8971.9	8582.9	8296.9	8141.3	8099.7
67.5°	11273.7	10502.8	9409.8	8456.2	7848.2	7453.7	7126.1	6977.8	6930.7
70°	9171.0	8642.6	7746.8	6932.5	6366.1	5986.1	5655.0	5531.9	5530.1
72.5°	6798.6	6112.8	5578.9	4981.8	4487.8	4185.6	3897.8	3760.3	3691.6
75°	4496.8	3762.1	3165.0	2661.9	2169.7	1898.3	1574.3	1435.0	1353.6
77.5°	2265.6	1679.3	1203.4	834.2	647.8	532.0	486.8	463.3	461.4
80°	754.6	566.4	486.8	456.0	447.0	448.8	443.3	434.3	423.4
82.5°	418.0	439.7	443.3	430.7	430.7	423.4	416.2	381.8	363.7
85°	358.3	394.5	398.1	390.9	389.1	378.2	365.5	318.5	291.3
87.5°	224.4	258.8	253.3	226.2	249.7	233.4	220.8	143.0	105.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)