

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: STREETWORKS

Report Number: P157416

Luminaire Tested: **VST-F11-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157416
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: STREETWORKS
Catalog Number: VST-F11-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (77) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29806.4 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 282.7
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: 28.75 FT

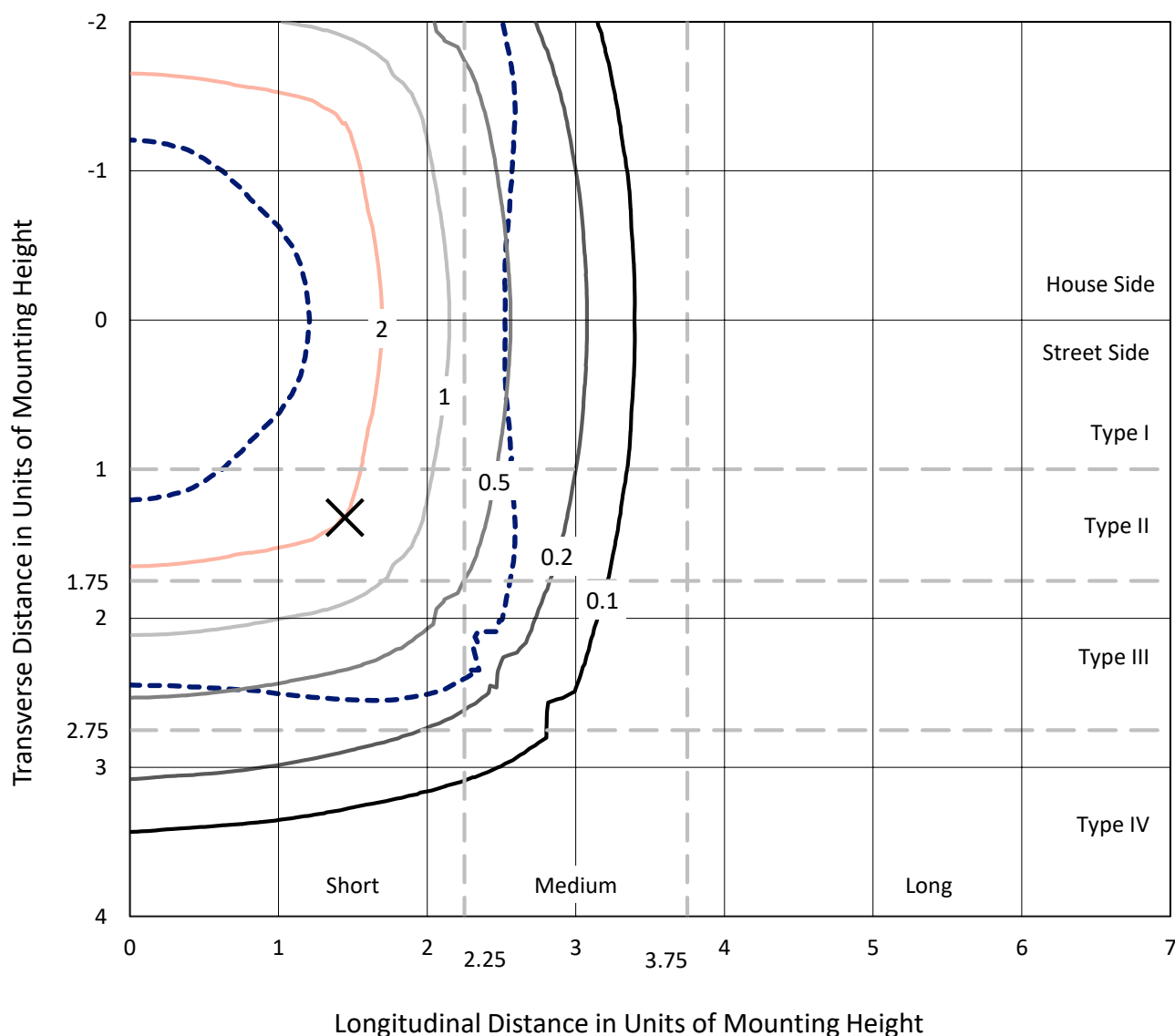


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

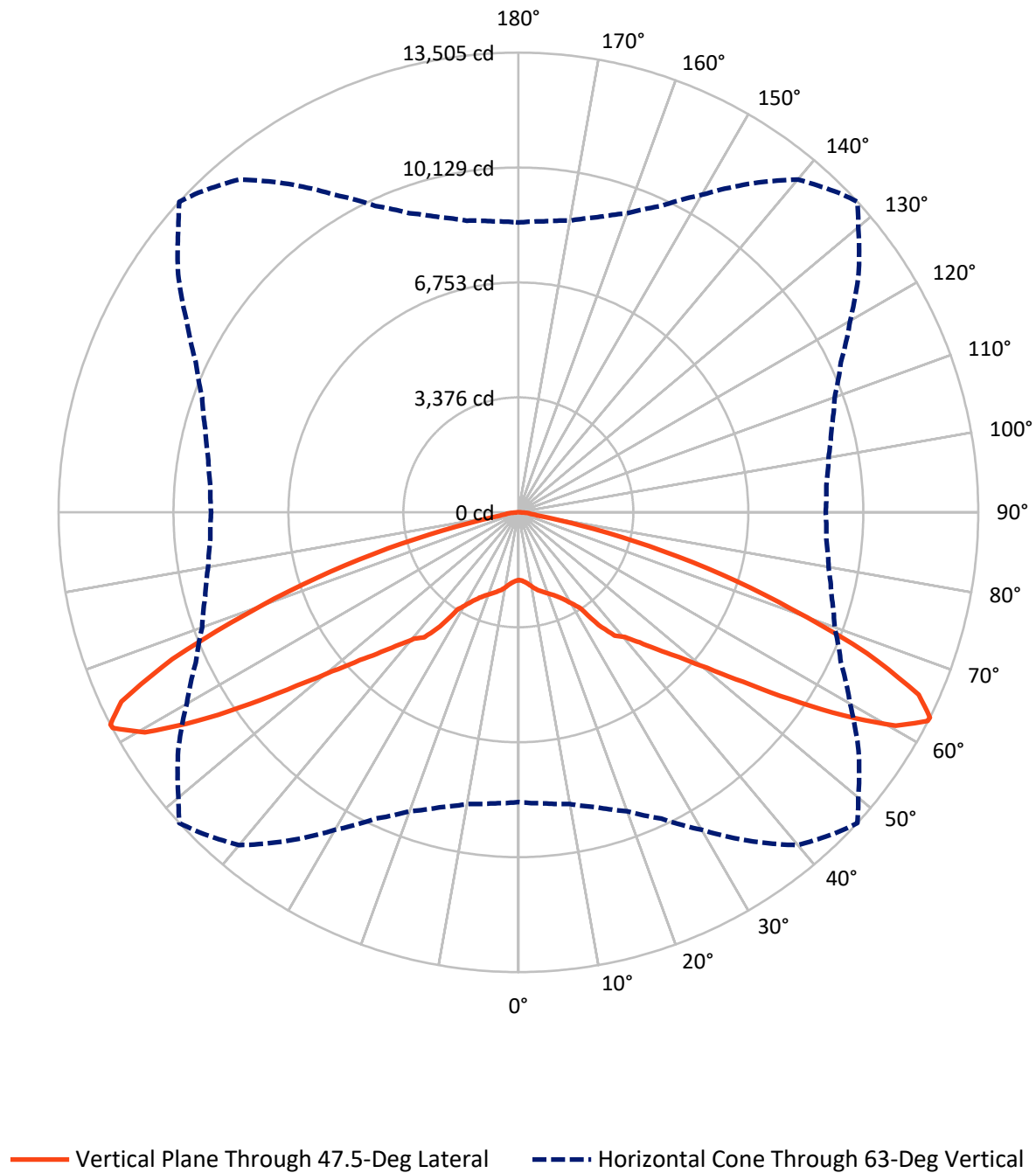


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14903.2	0.0	14903.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14903.2	0.0	14903.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	29806.4	0.0	29806.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	0.7
10°-20°	679.2	2.3
20°-30°	1299.2	4.4
30°-40°	2485.3	8.3
40°-50°	4300.4	14.4
50°-60°	7723.2	25.9
60°-70°	9391.6	31.5
70°-80°	3391.8	11.4
80°-90°	335.9	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°	29806.4	100.0
0°-180°	29806.4	100.0

Coefficient of Utilization



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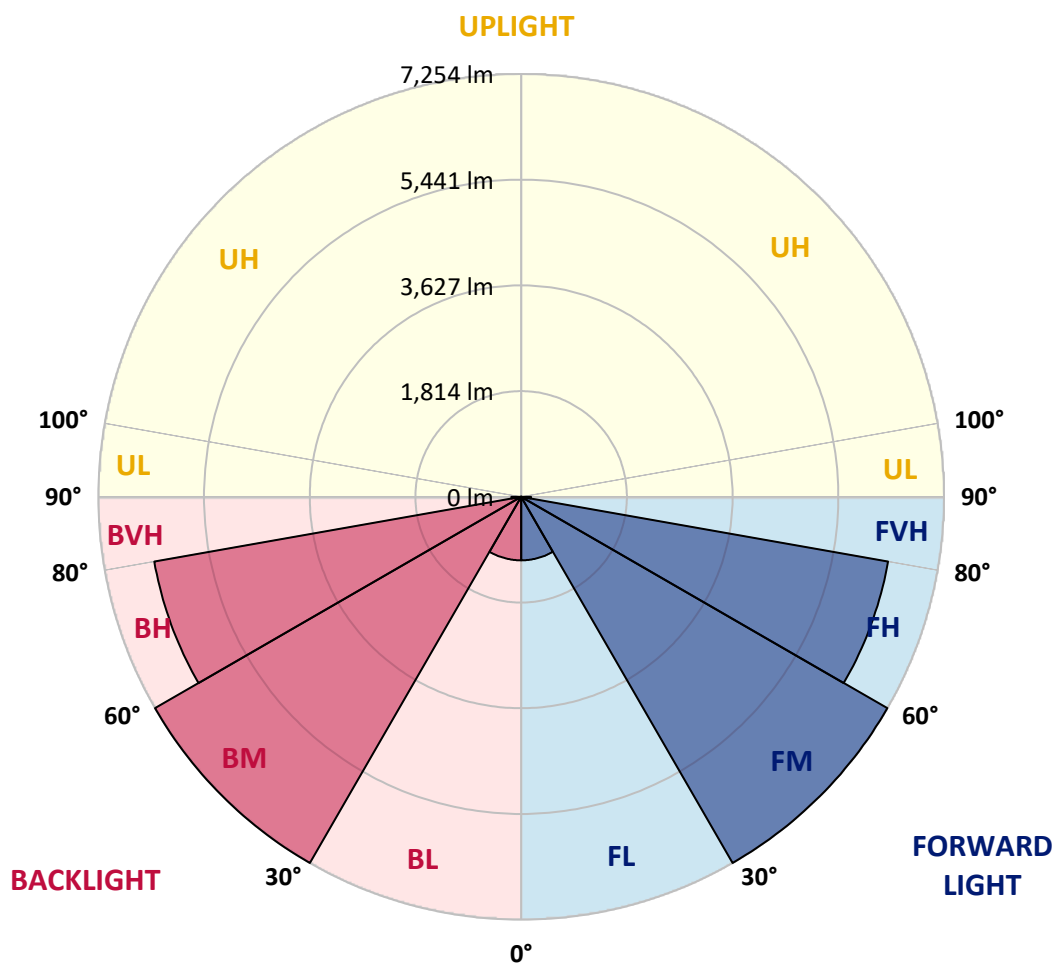
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.1	3.7			
FM	(30°-60°)	7254.5	24.3			
FH	(60°-80°)	6391.7	21.4			G3/7500
FVH	(80°-90°)	168.0	0.6			G2/225
BL	(0°-30°)	1089.1	3.7	B3/2500		
BM	(30°-60°)	7254.5	24.3	B4/8500		
BH	(60°-80°)	6391.7	21.4	B5		G3/7500
BVH	(80°-90°)	168.0	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°	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3
2.5°	2003.3	1999.6	2001.5	2003.3	2001.5	1999.6	1999.6	1999.6	2003.3	1999.6	2008.9
5°	2042.5	2038.7	2040.6	2040.6	2040.6	2036.9	2036.9	2036.9	2035.0	2036.9	2057.4
7.5°	2117.0	2111.4	2109.6	2113.3	2109.6	2107.7	2105.8	2105.8	2102.1	2102.1	2128.2
10°	2206.5	2199.0	2202.7	2204.6	2199.0	2195.3	2195.3	2195.3	2189.7	2187.8	2221.4
12.5°	2305.2	2301.5	2301.5	2297.8	2295.9	2292.2	2290.3	2292.2	2284.7	2284.7	2318.3
15°	2400.3	2392.8	2394.7	2389.1	2385.4	2381.6	2379.8	2377.9	2374.2	2374.2	2394.7
17.5°	2487.9	2482.3	2480.4	2474.8	2469.2	2463.6	2459.9	2458.0	2452.5	2452.5	2471.1
20°	2579.2	2573.6	2569.9	2560.5	2551.2	2545.6	2538.2	2534.5	2527.0	2528.9	2549.4
22.5°	2683.5	2674.2	2666.8	2659.3	2642.5	2631.4	2622.0	2614.6	2610.9	2610.9	2638.8
25°	2823.3	2817.7	2806.5	2782.3	2761.8	2745.0	2730.1	2722.7	2715.2	2711.5	2754.4
27.5°	2994.8	2989.2	2974.3	2950.0	2922.1	2894.1	2877.3	2864.3	2855.0	2849.4	2910.9
30°	3222.1	3212.8	3199.7	3160.6	3136.4	3093.5	3074.9	3056.2	3035.7	3041.3	3114.0
32.5°	3667.5	3654.5	3613.5	3570.6	3496.1	3438.3	3378.6	3333.9	3291.1	3285.5	3363.7
35°	4071.9	4066.3	4058.8	4029.0	4001.1	3965.7	3937.7	3891.1	3852.0	3842.7	4062.6
37.5°	4289.9	4303.0	4291.8	4288.1	4288.1	4304.8	4357.0	4409.2	4446.5	4468.8	4591.8
40°	4623.5	4623.5	4610.5	4603.0	4588.1	4610.5	4632.8	4672.0	4688.7	4690.6	4815.5
42.5°	5001.8	5003.7	4990.6	4968.3	4960.8	4981.3	5011.1	5048.4	5070.8	5076.4	5221.7
45°	5423.0	5417.4	5406.2	5398.8	5404.3	5423.0	5458.4	5531.1	5564.6	5590.7	5749.1
47.5°	5879.6	5916.8	5885.1	5890.7	5890.7	5948.5	6028.6	6088.3	6142.3	6192.6	6360.4
50°	6477.8	6483.3	6488.9	6505.7	6516.9	6593.3	6693.9	6764.7	6843.0	6908.2	7182.2
52.5°	7277.2	7266.0	7294.0	7312.6	7376.0	7417.0	7584.7	7674.2	7782.3	7866.1	8266.8
55°	8233.2	8227.6	8268.6	8283.6	8367.4	8468.0	8654.4	8850.1	9034.6	9137.1	9685.0
57.5°	8919.0	8933.9	9004.8	9103.5	9267.5	9481.8	9759.5	10191.8	10542.2	10654.0	11257.8
60°	9070.0	9118.4	9224.7	9422.2	9703.6	10102.4	10648.4	11310.0	11951.1	12165.4	12731.9
62.5°	8646.9	8702.9	8859.4	9096.1	9463.2	10053.9	10842.2	11775.9	12728.2	13205.2	13490.4
63°	8512.8	8581.7	8699.1	8973.1	9345.8	9929.1	10767.7	11774.0	12761.7	13281.6	13505.3
65°	7882.9	7895.9	8071.1	8345.1	8764.4	9370.0	10216.1	11378.9	12474.7	13074.8	12920.1
67.5°	6783.4	6837.4	6984.6	7260.5	7668.6	8298.5	9217.2	10292.5	11255.9	11734.9	11043.5
70°	5480.7	5477.0	5659.7	5881.4	6241.1	6794.6	7599.6	8570.5	9334.6	9683.1	8525.8
72.5°	3915.4	3818.4	3952.6	4198.6	4493.1	4934.7	5572.1	6326.8	7010.7	7312.6	6233.6
75°	1783.4	1757.3	1876.6	2120.7	2418.9	2812.1	3335.8	3988.0	4644.0	4998.1	3971.3
77.5°	600.1	607.5	654.1	741.7	902.0	1099.5	1425.6	1843.1	2374.2	2724.5	1863.6
80°	402.5	413.7	428.6	441.7	460.3	490.1	560.9	669.0	833.0	1008.2	588.9
82.5°	329.9	342.9	376.4	391.3	402.5	411.8	417.4	424.9	424.9	428.6	372.7
85°	236.7	259.0	303.8	331.7	342.9	350.4	359.7	370.8	354.1	339.2	288.9
87.5°	82.0	111.8	164.0	180.8	193.8	195.7	208.7	231.1	219.9	178.9	87.6
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°	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3	1990.3
2.5°	1999.6	1997.7	1999.6	2001.5	2001.5	2001.5	2003.3	2005.2	2005.2
5°	2036.9	2038.7	2036.9	2038.7	2038.7	2040.6	2040.6	2044.3	2044.3
7.5°	2100.2	2104.0	2102.1	2105.8	2105.8	2109.6	2107.7	2113.3	2113.3
10°	2186.0	2189.7	2193.4	2195.3	2193.4	2197.1	2200.9	2202.7	2200.9
12.5°	2282.9	2284.7	2282.9	2286.6	2286.6	2290.3	2290.3	2295.9	2295.9
15°	2372.3	2370.5	2368.6	2374.2	2377.9	2379.8	2383.5	2389.1	2383.5
17.5°	2452.5	2454.3	2450.6	2456.2	2463.6	2469.2	2473.0	2480.4	2478.5
20°	2532.6	2528.9	2532.6	2541.9	2549.4	2556.8	2564.3	2575.4	2573.6
22.5°	2610.9	2614.6	2623.9	2631.4	2644.4	2655.6	2664.9	2679.8	2685.4
25°	2720.8	2720.8	2735.7	2745.0	2763.7	2778.6	2799.1	2815.8	2825.2
27.5°	2860.6	2860.6	2877.3	2897.8	2925.8	2951.9	2974.3	2996.6	2992.9
30°	3050.7	3060.0	3074.9	3101.0	3138.2	3169.9	3199.7	3222.1	3224.0
32.5°	3300.4	3311.6	3356.3	3423.4	3501.6	3561.3	3606.0	3660.0	3667.5
35°	3866.9	3894.9	3952.6	4006.7	4038.3	4073.8	4096.1	4098.0	4101.7
37.5°	4463.2	4414.8	4370.1	4329.1	4310.4	4306.7	4306.7	4314.2	4317.9
40°	4681.3	4657.1	4636.6	4610.5	4617.9	4616.1	4629.1	4640.3	4647.7
42.5°	5054.0	5035.4	5016.7	4983.2	5001.8	4996.2	5014.9	5031.6	5040.9
45°	5573.9	5516.2	5475.2	5421.1	5439.8	5428.6	5428.6	5449.1	5452.8
47.5°	6147.9	6080.8	5997.0	5929.9	5907.5	5887.0	5905.6	5905.6	5885.1
50°	6835.6	6755.4	6656.7	6548.6	6511.3	6490.8	6498.3	6507.6	6449.8
52.5°	7769.2	7679.8	7540.0	7376.0	7340.6	7323.8	7320.1	7307.0	7292.1
55°	9034.6	8866.8	8695.4	8479.2	8414.0	8395.4	8397.2	8382.3	8417.7
57.5°	10527.3	10281.3	9886.2	9623.5	9466.9	9407.3	9353.2	9330.9	9332.7
60°	12005.1	11503.8	10913.0	10454.6	10126.6	9917.9	9753.9	9662.6	9636.5
62.5°	12957.4	12169.1	11282.0	10538.5	9999.9	9655.1	9396.1	9232.1	9179.9
63°	13031.9	12197.0	11248.5	10450.9	9884.4	9522.8	9250.7	9081.2	9025.3
65°	12869.8	11915.6	10810.5	9860.1	9239.6	8838.9	8544.5	8384.2	8341.3
67.5°	11610.0	10816.1	9690.5	8708.4	8082.3	7676.0	7338.7	7185.9	7137.5
70°	9444.6	8900.4	7977.9	7139.3	6556.0	6164.7	5823.6	5696.9	5695.1
72.5°	7001.4	6295.1	5745.4	5130.4	4621.6	4310.4	4014.1	3872.5	3801.7
75°	4631.0	3874.4	3259.4	2741.3	2234.4	1954.9	1621.3	1477.8	1393.9
77.5°	2333.2	1729.4	1239.3	859.1	667.2	547.9	501.3	477.1	475.2
80°	777.1	583.3	501.3	469.6	460.3	462.2	456.6	447.3	436.1
82.5°	430.5	452.8	456.6	443.5	443.5	436.1	428.6	393.2	374.6
85°	369.0	406.3	410.0	402.5	400.7	389.5	376.4	328.0	300.0
87.5°	231.1	266.5	260.9	232.9	257.2	240.4	227.4	147.2	108.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)