

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: P157414

Luminaire Tested: **VST-F11-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157414
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-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (77) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26531.1 lumens
Efficiency: N/A
Efficacy: 93.8 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

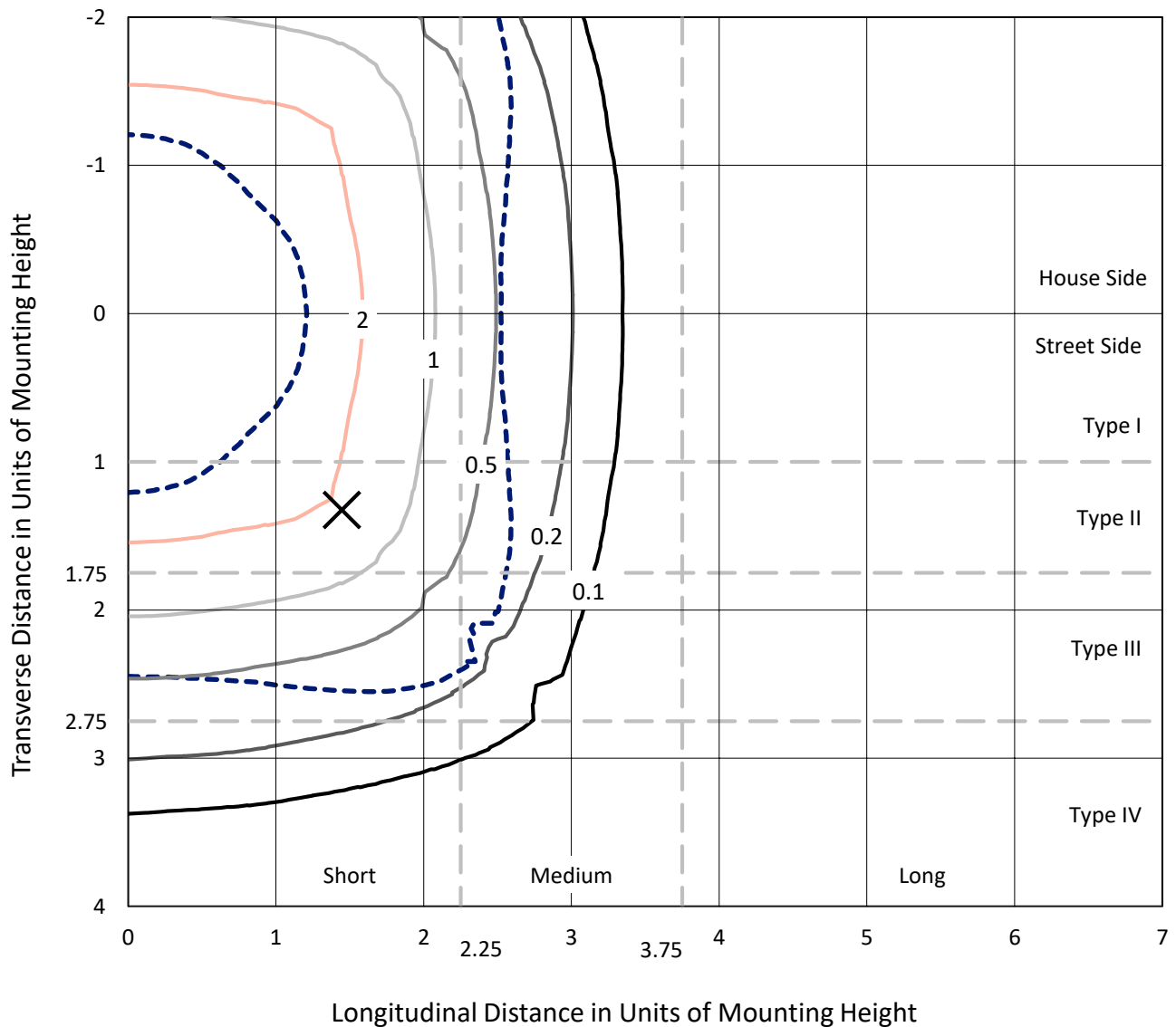
Input Watts (W): 282.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

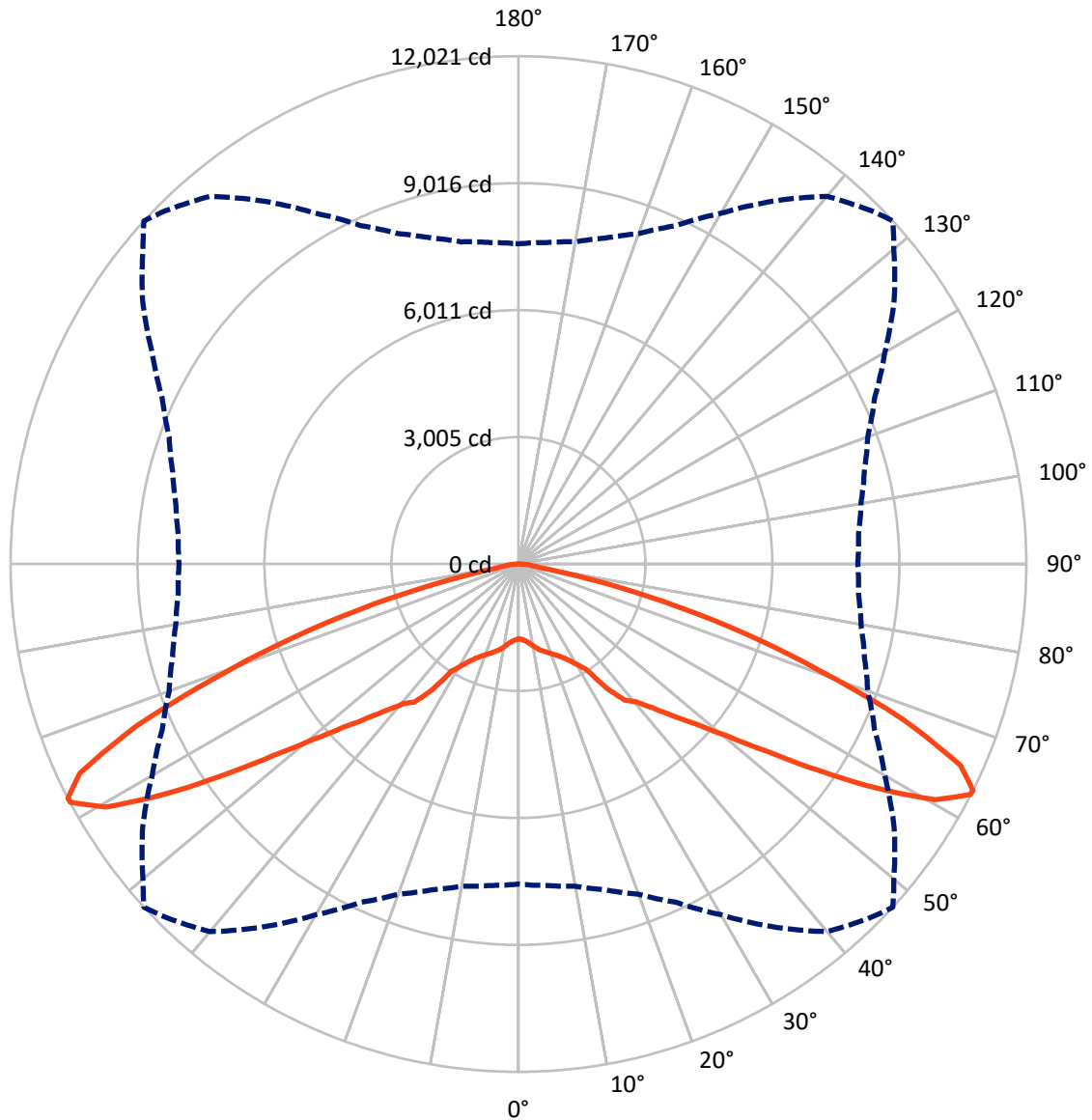
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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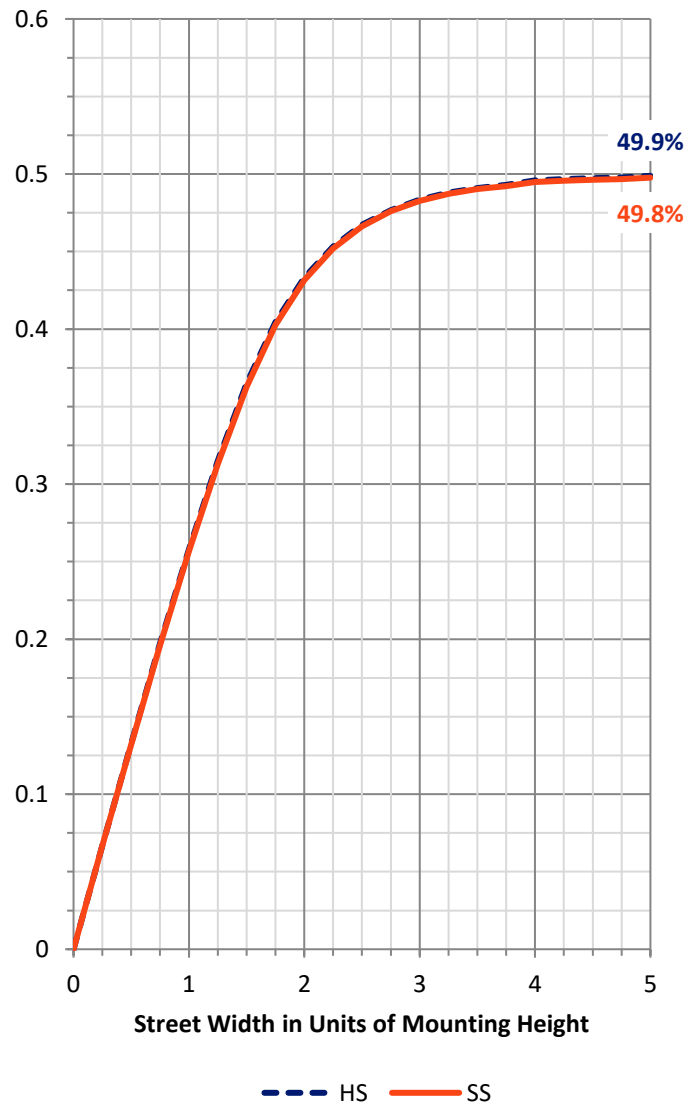
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13265.6	0.0	13265.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13265.6	0.0	13265.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26531.1	0.0	26531.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	0.7
10°-20°	604.6	2.3
20°-30°	1156.5	4.4
30°-40°	2212.2	8.3
40°-50°	3827.8	14.4
50°-60°	6874.6	25.9
60°-70°	8359.6	31.5
70°-80°	3019.1	11.4
80°-90°	299.0	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°	26531.1	100.0
0°-180°	26531.1	100.0

Coefficient of Utilization



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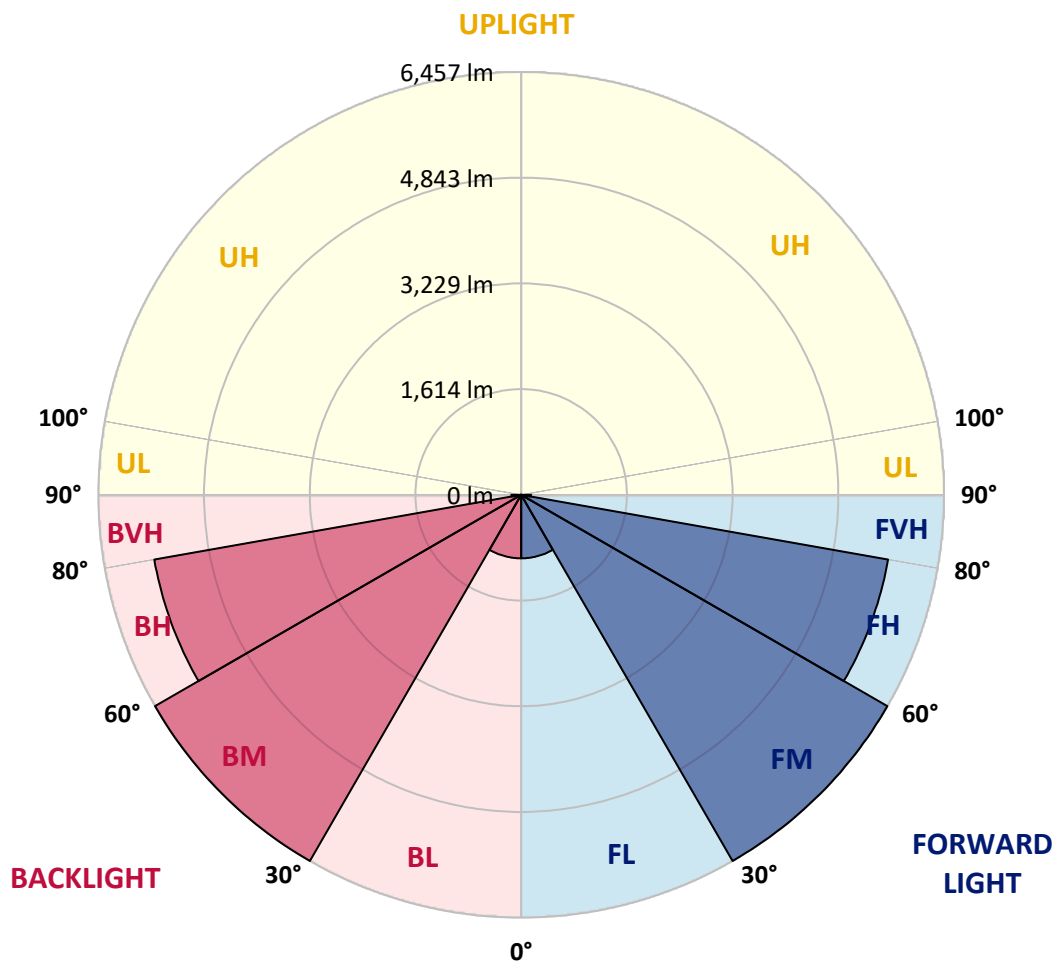
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	969.5	3.7			
FM	(30°-60°)	6457.3	24.3			
FH	(60°-80°)	5689.3	21.4			G3/7500
FVH	(80°-90°)	149.5	0.6			G2/225
BL	(0°-30°)	969.5	3.7	B2/1000		
BM	(30°-60°)	6457.3	24.3	B4/8500		
BH	(60°-80°)	5689.3	21.4	B5		G3/7500
BVH	(80°-90°)	149.5	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°	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6
2.5°	1783.2	1779.9	1781.5	1783.2	1781.5	1779.9	1779.9	1779.9	1783.2	1779.9	1788.2
5°	1818.0	1814.7	1816.4	1816.4	1816.4	1813.1	1813.1	1813.1	1811.4	1813.1	1831.3
7.5°	1884.4	1879.4	1877.7	1881.1	1877.7	1876.1	1874.4	1874.4	1871.1	1871.1	1894.3
10°	1964.0	1957.4	1960.7	1962.3	1957.4	1954.0	1954.0	1954.0	1949.1	1947.4	1977.3
12.5°	2051.9	2048.6	2048.6	2045.3	2043.6	2040.3	2038.6	2040.3	2033.7	2033.7	2063.5
15°	2136.5	2129.9	2131.5	2126.6	2123.2	2119.9	2118.3	2116.6	2113.3	2113.3	2131.5
17.5°	2214.5	2209.5	2207.8	2202.9	2197.9	2192.9	2189.6	2187.9	2183.0	2183.0	2199.5
20°	2295.8	2290.8	2287.5	2279.2	2270.9	2265.9	2259.3	2255.9	2249.3	2251.0	2269.2
22.5°	2388.7	2380.4	2373.7	2367.1	2352.2	2342.2	2333.9	2327.3	2324.0	2324.0	2348.8
25°	2513.1	2508.1	2498.1	2476.6	2458.3	2443.4	2430.1	2423.5	2416.9	2413.5	2451.7
27.5°	2665.7	2660.7	2647.4	2625.9	2601.0	2576.1	2561.2	2549.6	2541.3	2536.3	2591.0
30°	2868.0	2859.7	2848.1	2813.3	2791.7	2753.6	2737.0	2720.4	2702.2	2707.1	2771.8
32.5°	3264.5	3252.9	3216.4	3178.2	3111.9	3060.5	3007.4	2967.6	2929.4	2924.4	2994.1
35°	3624.4	3619.5	3612.8	3586.3	3561.4	3529.9	3505.0	3463.5	3428.7	3420.4	3616.2
37.5°	3818.5	3830.1	3820.2	3816.9	3816.9	3831.8	3878.2	3924.7	3957.9	3977.8	4087.2
40°	4115.4	4115.4	4103.8	4097.2	4083.9	4103.8	4123.7	4158.6	4173.5	4175.2	4286.3
42.5°	4452.2	4453.8	4442.2	4422.3	4415.7	4433.9	4460.5	4493.7	4513.6	4518.5	4647.9
45°	4827.1	4822.1	4812.1	4805.5	4810.5	4827.1	4858.6	4923.3	4953.1	4976.4	5117.4
47.5°	5233.5	5266.6	5238.4	5243.4	5243.4	5294.8	5366.2	5419.3	5467.4	5512.1	5661.4
50°	5765.9	5770.9	5775.9	5790.8	5800.8	5868.8	5958.4	6021.4	6091.1	6149.1	6393.0
52.5°	6477.6	6467.6	6492.5	6509.1	6565.5	6602.0	6751.3	6830.9	6927.1	7001.7	7358.4
55°	7328.5	7323.5	7360.0	7373.3	7447.9	7537.5	7703.4	7877.6	8041.8	8133.0	8620.7
57.5°	7938.9	7952.2	8015.3	8103.2	8249.1	8439.9	8687.1	9071.9	9383.8	9483.3	10020.7
60°	8073.3	8116.4	8211.0	8386.8	8637.3	8992.3	9478.3	10067.2	10637.8	10828.6	11332.8
62.5°	7696.8	7746.5	7885.9	8096.5	8423.3	8949.1	9650.8	10481.9	11329.5	11754.2	12007.9
63°	7577.3	7638.7	7743.2	7987.1	8318.8	8838.0	9584.5	10480.2	11359.4	11822.2	12021.2
65°	7016.7	7028.3	7184.2	7428.0	7801.3	8340.4	9093.5	10128.5	11103.9	11638.0	11500.4
67.5°	6038.0	6086.1	6217.1	6462.6	6825.9	7386.6	8204.4	9161.5	10019.1	10445.4	9830.0
70°	4878.5	4875.2	5037.7	5235.1	5555.3	6047.9	6764.5	7628.8	8308.9	8619.1	7588.9
72.5°	3485.1	3398.9	3518.3	3737.2	3999.3	4392.5	4959.8	5631.6	6240.4	6509.1	5548.6
75°	1587.5	1564.2	1670.4	1887.7	2153.1	2503.1	2969.2	3549.8	4133.7	4448.9	3534.9
77.5°	534.1	540.8	582.2	660.2	802.9	978.7	1269.0	1640.5	2113.3	2425.1	1658.8
80°	358.3	368.3	381.5	393.1	409.7	436.3	499.3	595.5	741.5	897.4	524.2
82.5°	293.6	305.2	335.1	348.3	358.3	366.6	371.6	378.2	378.2	381.5	331.8
85°	210.7	230.6	270.4	295.3	305.2	311.9	320.1	330.1	315.2	301.9	257.1
87.5°	73.0	99.5	146.0	160.9	172.5	174.2	185.8	205.7	195.7	159.2	78.0
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°	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6	1771.6
2.5°	1779.9	1778.2	1779.9	1781.5	1781.5	1781.5	1783.2	1784.9	1784.9
5°	1813.1	1814.7	1813.1	1814.7	1814.7	1816.4	1816.4	1819.7	1819.7
7.5°	1869.5	1872.8	1871.1	1874.4	1874.4	1877.7	1876.1	1881.1	1881.1
10°	1945.8	1949.1	1952.4	1954.0	1952.4	1955.7	1959.0	1960.7	1959.0
12.5°	2032.0	2033.7	2032.0	2035.3	2035.3	2038.6	2038.6	2043.6	2043.6
15°	2111.6	2110.0	2108.3	2113.3	2116.6	2118.3	2121.6	2126.6	2121.6
17.5°	2183.0	2184.6	2181.3	2186.3	2192.9	2197.9	2201.2	2207.8	2206.2
20°	2254.3	2251.0	2254.3	2262.6	2269.2	2275.9	2282.5	2292.4	2290.8
22.5°	2324.0	2327.3	2335.6	2342.2	2353.8	2363.8	2372.1	2385.3	2390.3
25°	2421.8	2421.8	2435.1	2443.4	2460.0	2473.2	2491.5	2506.4	2514.7
27.5°	2546.2	2546.2	2561.2	2579.4	2604.3	2627.5	2647.4	2667.3	2664.0
30°	2715.4	2723.7	2737.0	2760.2	2793.4	2821.6	2848.1	2868.0	2869.7
32.5°	2937.7	2947.7	2987.5	3047.2	3116.9	3169.9	3209.8	3257.9	3264.5
35°	3442.0	3466.9	3518.3	3566.4	3594.6	3626.1	3646.0	3647.7	3651.0
37.5°	3972.8	3929.7	3889.9	3853.4	3836.8	3833.5	3833.5	3840.1	3843.4
40°	4166.9	4145.3	4127.1	4103.8	4110.5	4108.8	4120.4	4130.4	4137.0
42.5°	4498.6	4482.0	4465.5	4435.6	4452.2	4447.2	4463.8	4478.7	4487.0
45°	4961.4	4910.0	4873.5	4825.4	4842.0	4832.0	4832.0	4850.3	4853.6
47.5°	5472.3	5412.6	5338.0	5278.3	5258.4	5240.1	5256.7	5256.7	5238.4
50°	6084.4	6013.1	5925.2	5829.0	5795.8	5777.6	5784.2	5792.5	5741.1
52.5°	6915.5	6835.9	6711.4	6565.5	6534.0	6519.0	6515.7	6504.1	6490.8
55°	8041.8	7892.5	7739.9	7547.5	7489.4	7472.8	7474.5	7461.2	7492.7
57.5°	9370.5	9151.5	8799.9	8566.0	8426.6	8373.5	8325.4	8305.5	8307.2
60°	10685.9	10239.7	9713.8	9305.8	9013.8	8828.1	8682.1	8600.8	8577.6
62.5°	11533.5	10831.9	10042.3	9380.4	8901.0	8594.2	8363.6	8217.6	8171.2
63°	11599.9	10856.8	10012.4	9302.5	8798.2	8476.4	8234.2	8083.3	8033.5
65°	11455.6	10606.3	9622.6	8776.6	8224.3	7867.6	7605.5	7462.9	7424.7
67.5°	10334.2	9627.6	8625.7	7751.5	7194.2	6832.5	6532.3	6396.3	6353.1
70°	8406.7	7922.4	7101.3	6354.8	5835.6	5487.3	5183.7	5070.9	5069.2
72.5°	6232.1	5603.4	5114.0	4566.6	4113.8	3836.8	3573.0	3447.0	3383.9
75°	4122.1	3448.6	2901.2	2440.1	1988.9	1740.1	1443.1	1315.4	1240.8
77.5°	2076.8	1539.4	1103.1	764.7	593.8	487.7	446.2	424.6	423.0
80°	691.7	519.2	446.2	418.0	409.7	411.4	406.4	398.1	388.2
82.5°	383.2	403.1	406.4	394.8	394.8	388.2	381.5	350.0	333.4
85°	328.4	361.6	364.9	358.3	356.6	346.7	335.1	291.9	267.1
87.5°	205.7	237.2	232.2	207.3	228.9	214.0	202.4	131.0	96.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)