

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: P157381

Luminaire Tested: **VST-E08-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157381
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-E08-LED-E-U-5MQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26258.9 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

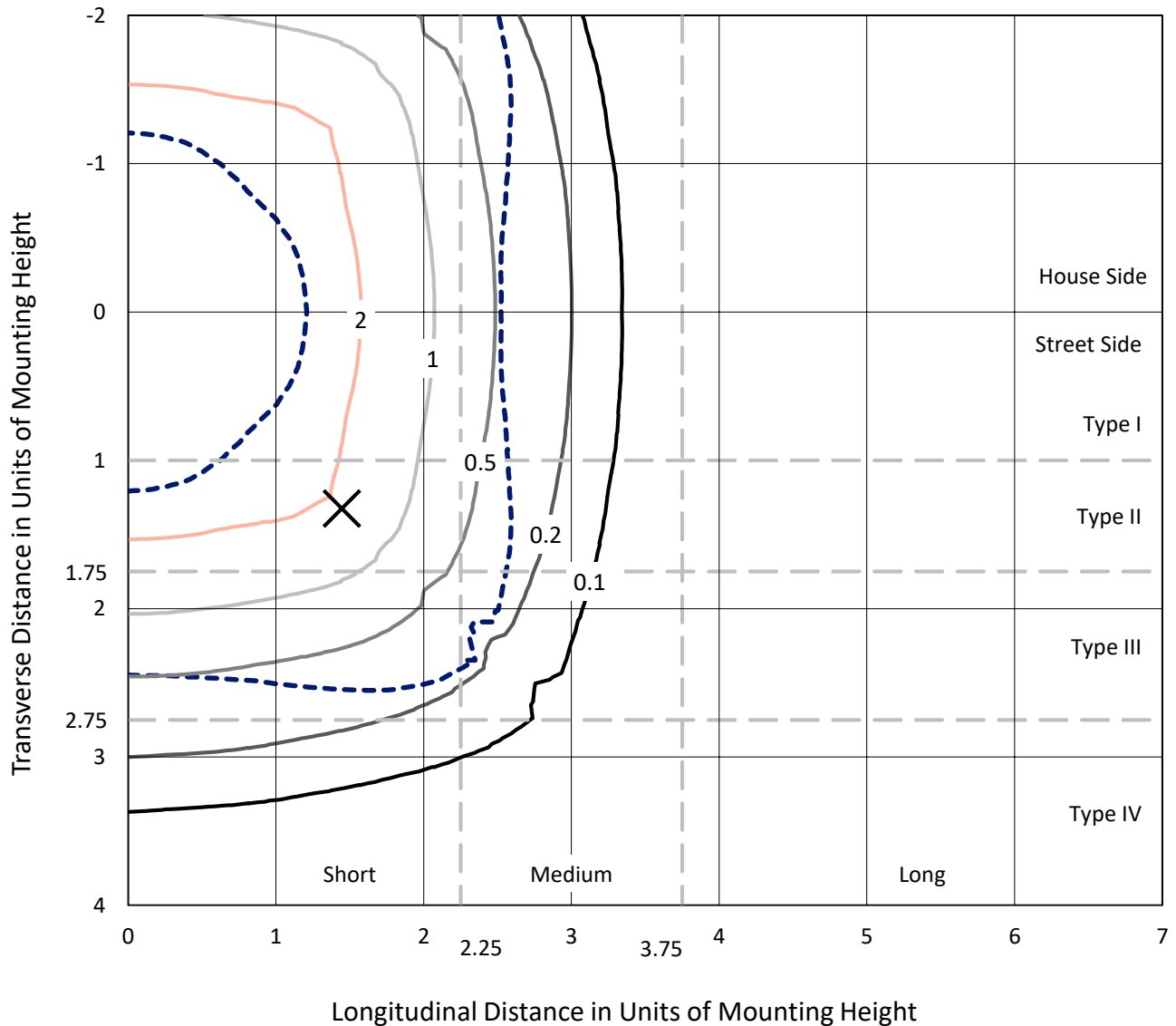
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

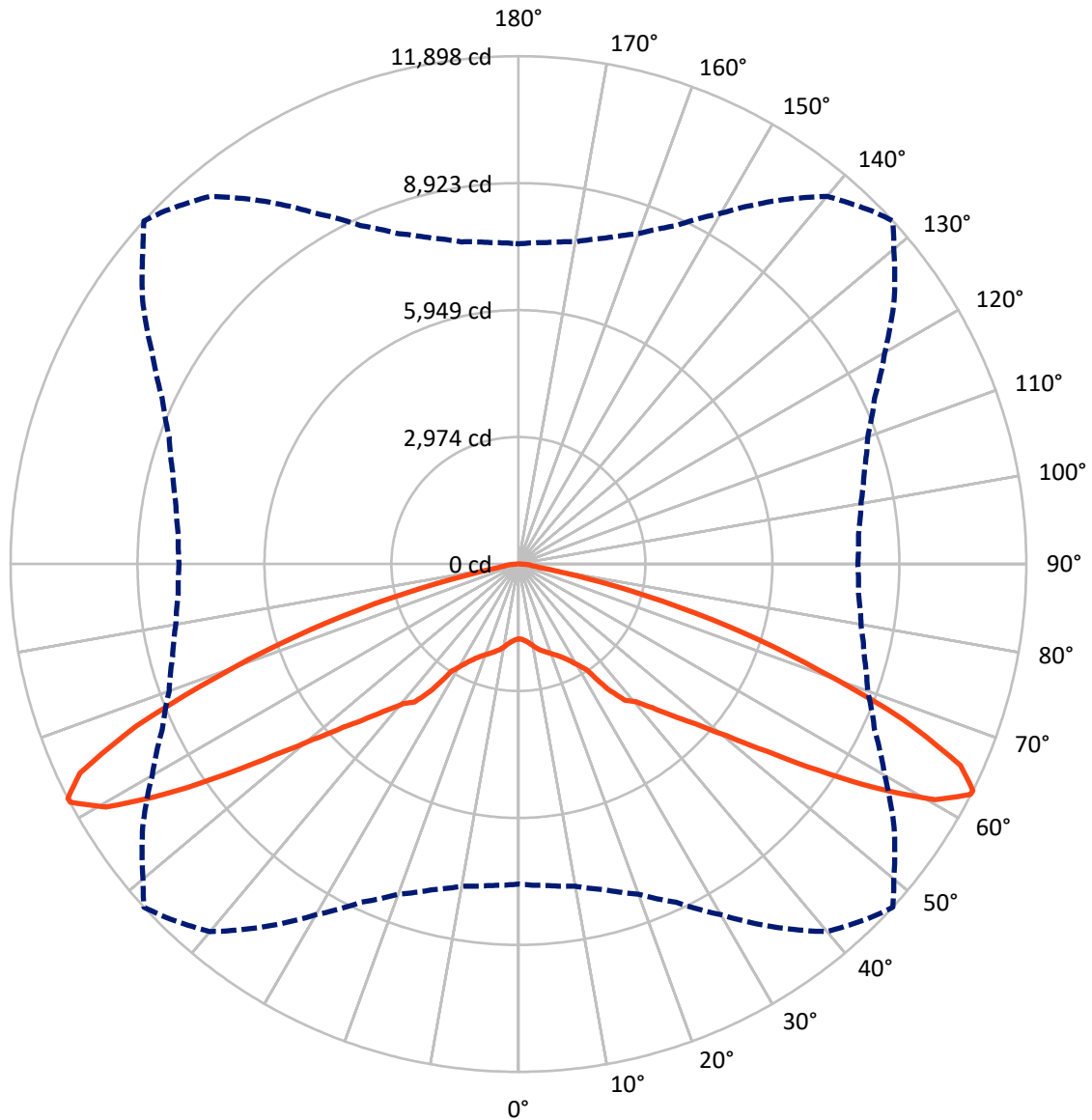
× Max cd
 - - - 1/2 Max cd



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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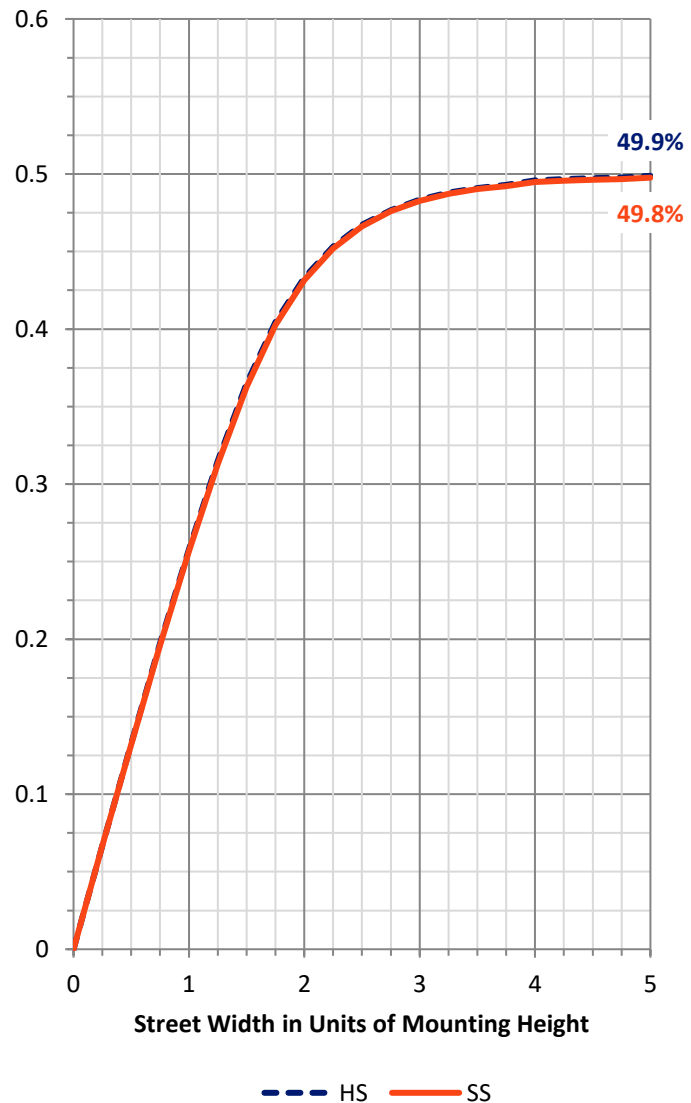
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13129.5	0.0	13129.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13129.5	0.0	13129.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26258.9	0.0	26258.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	0.7
10°-20°	598.4	2.3
20°-30°	1144.6	4.4
30°-40°	2189.5	8.3
40°-50°	3788.6	14.4
50°-60°	6804.0	25.9
60°-70°	8273.8	31.5
70°-80°	2988.1	11.4
80°-90°	295.9	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°	26258.9	100.0
0°-180°	26258.9	100.0

Coefficient of Utilization



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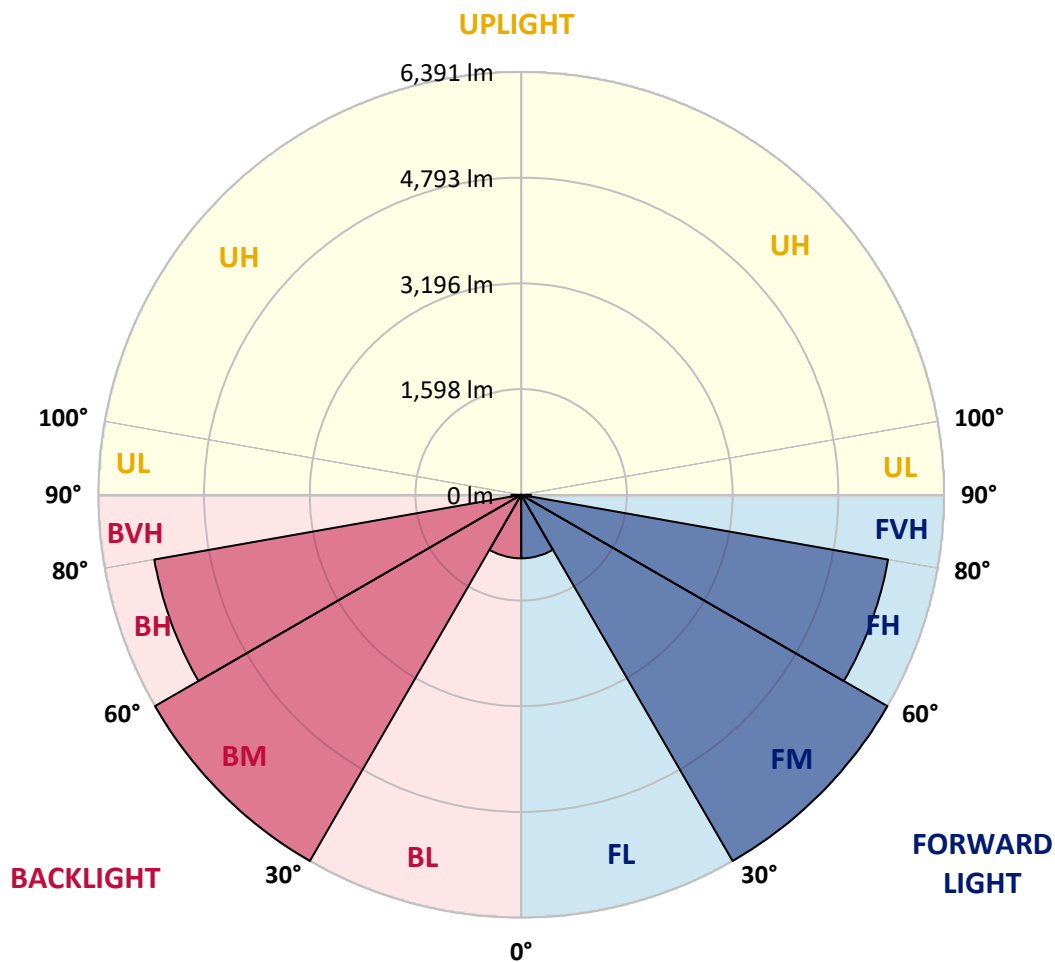
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.5	3.7			
FM	(30°-60°)	6391.0	24.3			
FH	(60°-80°)	5630.9	21.4			G3/7500
FVH	(80°-90°)	148.0	0.6			G2/225
BL	(0°-30°)	959.5	3.7	B2/1000		
BM	(30°-60°)	6391.0	24.3	B4/8500		
BH	(60°-80°)	5630.9	21.4	B5		G3/7500
BVH	(80°-90°)	148.0	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°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1764.9	1761.6	1763.3	1764.9	1763.3	1761.6	1761.6	1761.6	1764.9	1761.6	1769.8
5°	1799.4	1796.1	1797.7	1797.7	1797.7	1794.5	1794.5	1794.5	1792.8	1794.5	1812.5
7.5°	1865.0	1860.1	1858.5	1861.8	1858.5	1856.8	1855.2	1855.2	1851.9	1851.9	1874.9
10°	1943.9	1937.3	1940.6	1942.2	1937.3	1934.0	1934.0	1934.0	1929.1	1927.4	1957.0
12.5°	2030.9	2027.6	2027.6	2024.3	2022.7	2019.4	2017.7	2019.4	2012.8	2012.8	2042.4
15°	2114.6	2108.0	2109.7	2104.7	2101.5	2098.2	2096.5	2094.9	2091.6	2091.6	2109.7
17.5°	2191.8	2186.8	2185.2	2180.3	2175.3	2170.4	2167.1	2165.5	2160.6	2160.6	2177.0
20°	2272.2	2267.3	2264.0	2255.8	2247.6	2242.7	2236.1	2232.8	2226.2	2227.9	2245.9
22.5°	2364.1	2355.9	2349.4	2342.8	2328.0	2318.2	2310.0	2303.4	2300.1	2300.1	2324.7
25°	2487.3	2482.4	2472.5	2451.2	2433.1	2418.3	2405.2	2398.6	2392.1	2388.8	2426.5
27.5°	2638.3	2633.4	2620.3	2598.9	2574.3	2549.7	2534.9	2523.4	2515.2	2510.3	2564.4
30°	2838.6	2830.4	2818.9	2784.4	2763.1	2725.3	2708.9	2692.5	2674.4	2679.4	2743.4
32.5°	3231.0	3219.5	3183.4	3145.6	3080.0	3029.1	2976.5	2937.1	2899.4	2894.4	2963.4
35°	3587.3	3582.3	3575.8	3549.5	3524.9	3493.7	3469.1	3428.0	3393.5	3385.3	3579.1
37.5°	3779.4	3790.8	3781.0	3777.7	3777.7	3792.5	3838.5	3884.4	3917.3	3937.0	4045.3
40°	4073.2	4073.2	4061.7	4055.2	4042.0	4061.7	4081.4	4115.9	4130.7	4132.3	4242.3
42.5°	4406.5	4408.1	4396.7	4377.0	4370.4	4388.4	4414.7	4447.6	4467.3	4472.2	4600.2
45°	4777.5	4772.6	4762.8	4756.2	4761.1	4777.5	4808.7	4872.8	4902.3	4925.3	5064.9
47.5°	5179.8	5212.6	5184.7	5189.6	5189.6	5240.5	5311.1	5363.7	5411.3	5455.6	5603.4
50°	5706.8	5711.7	5716.6	5731.4	5741.3	5808.6	5897.2	5959.6	6028.6	6086.0	6327.4
52.5°	6411.1	6401.3	6425.9	6442.3	6498.1	6534.2	6682.0	6760.8	6856.0	6929.9	7282.9
55°	7253.3	7248.4	7284.5	7297.7	7371.5	7460.2	7624.4	7796.8	7959.3	8049.6	8532.3
57.5°	7857.5	7870.6	7933.0	8020.0	8164.5	8353.3	8597.9	8978.8	9287.5	9386.0	9917.9
60°	7990.5	8033.2	8126.8	8300.8	8548.7	8900.0	9381.1	9963.9	10528.7	10717.5	11216.6
62.5°	7617.8	7667.1	7805.0	8013.5	8336.9	8857.3	9551.8	10374.3	11213.3	11633.6	11884.8
63°	7499.6	7560.3	7663.8	7905.1	8233.5	8747.3	9486.1	10372.7	11242.8	11700.9	11897.9
65°	6944.7	6956.2	7110.5	7351.8	7721.2	8254.8	9000.2	10024.6	10990.0	11518.6	11382.4
67.5°	5976.0	6023.6	6153.3	6396.3	6755.9	7310.8	8120.2	9067.5	9916.3	10338.2	9729.1
70°	4828.4	4825.2	4986.1	5181.4	5498.3	5985.9	6695.1	7550.5	8223.6	8530.6	7511.1
72.5°	3449.4	3364.0	3482.2	3698.9	3958.3	4347.4	4908.9	5573.8	6176.3	6442.3	5491.7
75°	1571.2	1548.2	1653.3	1868.3	2131.0	2477.4	2938.8	3513.4	4091.3	4403.2	3498.6
77.5°	528.6	535.2	576.3	653.4	794.6	968.6	1256.0	1623.7	2091.6	2400.3	1641.8
80°	354.6	364.5	377.6	389.1	405.5	431.8	494.2	589.4	733.9	888.2	518.8
82.5°	290.6	302.1	331.6	344.8	354.6	362.8	367.8	374.3	374.3	377.6	328.4
85°	208.5	228.2	267.6	292.2	302.1	308.7	316.9	326.7	311.9	298.8	254.5
87.5°	72.2	98.5	144.5	159.3	170.7	172.4	183.9	203.6	193.7	157.6	77.2
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°	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4	1753.4
2.5°	1761.6	1760.0	1761.6	1763.3	1763.3	1763.3	1764.9	1766.5	1766.5
5°	1794.5	1796.1	1794.5	1796.1	1796.1	1797.7	1797.7	1801.0	1801.0
7.5°	1850.3	1853.6	1851.9	1855.2	1855.2	1858.5	1856.8	1861.8	1861.8
10°	1925.8	1929.1	1932.4	1934.0	1932.4	1935.6	1938.9	1940.6	1938.9
12.5°	2011.2	2012.8	2011.2	2014.5	2014.5	2017.7	2017.7	2022.7	2022.7
15°	2090.0	2088.3	2086.7	2091.6	2094.9	2096.5	2099.8	2104.7	2099.8
17.5°	2160.6	2162.2	2158.9	2163.9	2170.4	2175.3	2178.6	2185.2	2183.6
20°	2231.2	2227.9	2231.2	2239.4	2245.9	2252.5	2259.1	2268.9	2267.3
22.5°	2300.1	2303.4	2311.6	2318.2	2329.7	2339.5	2347.7	2360.9	2365.8
25°	2397.0	2397.0	2410.1	2418.3	2434.7	2447.9	2465.9	2480.7	2488.9
27.5°	2520.1	2520.1	2534.9	2553.0	2577.6	2600.6	2620.3	2640.0	2636.7
30°	2687.6	2695.8	2708.9	2731.9	2764.7	2792.6	2818.9	2838.6	2840.3
32.5°	2907.6	2917.4	2956.8	3015.9	3084.9	3137.4	3176.8	3224.4	3231.0
35°	3406.7	3431.3	3482.2	3529.8	3557.7	3588.9	3608.6	3610.2	3613.5
37.5°	3932.0	3889.4	3849.9	3813.8	3797.4	3794.1	3794.1	3800.7	3804.0
40°	4124.1	4102.8	4084.7	4061.7	4068.3	4066.7	4078.2	4088.0	4094.6
42.5°	4452.5	4436.1	4419.6	4390.1	4406.5	4401.6	4418.0	4432.8	4441.0
45°	4910.5	4859.6	4823.5	4775.9	4792.3	4782.5	4782.5	4800.5	4803.8
47.5°	5416.2	5357.1	5283.2	5224.1	5204.4	5186.3	5202.8	5202.8	5184.7
50°	6022.0	5951.4	5864.4	5769.2	5736.3	5718.3	5724.8	5733.1	5682.2
52.5°	6844.5	6765.7	6642.6	6498.1	6466.9	6452.2	6448.9	6437.4	6424.2
55°	7959.3	7811.5	7660.5	7470.0	7412.6	7396.2	7397.8	7384.7	7415.9
57.5°	9274.4	9057.6	8709.6	8478.1	8340.2	8287.6	8240.0	8220.3	8222.0
60°	10576.3	10134.6	9614.2	9210.3	8921.4	8737.5	8593.0	8512.6	8489.6
62.5°	11415.2	10720.7	9939.3	9284.2	8809.7	8506.0	8277.8	8133.3	8087.4
63°	11480.9	10745.4	9909.7	9207.0	8707.9	8389.4	8149.7	8000.3	7951.1
65°	11338.1	10497.5	9523.9	8686.6	8139.9	7786.9	7527.5	7386.3	7348.6
67.5°	10228.2	9528.8	8537.2	7672.0	7120.4	6762.4	6465.3	6330.7	6288.0
70°	8320.5	7841.1	7028.4	6289.6	5775.7	5431.0	5130.5	5018.9	5017.2
72.5°	6168.1	5545.9	5061.6	4519.8	4071.6	3797.4	3536.4	3411.6	3349.2
75°	4079.8	3413.2	2871.5	2415.0	1968.5	1722.2	1428.3	1301.9	1228.0
77.5°	2055.5	1523.6	1091.8	756.9	587.8	482.7	441.6	420.3	418.7
80°	684.6	513.9	441.6	413.7	405.5	407.2	402.2	394.0	384.2
82.5°	379.2	398.9	402.2	390.7	390.7	384.2	377.6	346.4	330.0
85°	325.1	357.9	361.2	354.6	353.0	343.1	331.6	289.0	264.3
87.5°	203.6	234.8	229.8	205.2	226.6	211.8	200.3	129.7	95.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)