

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: P509169

Luminaire Tested: **VERD-CA2-120-730-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-120-730-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16935 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

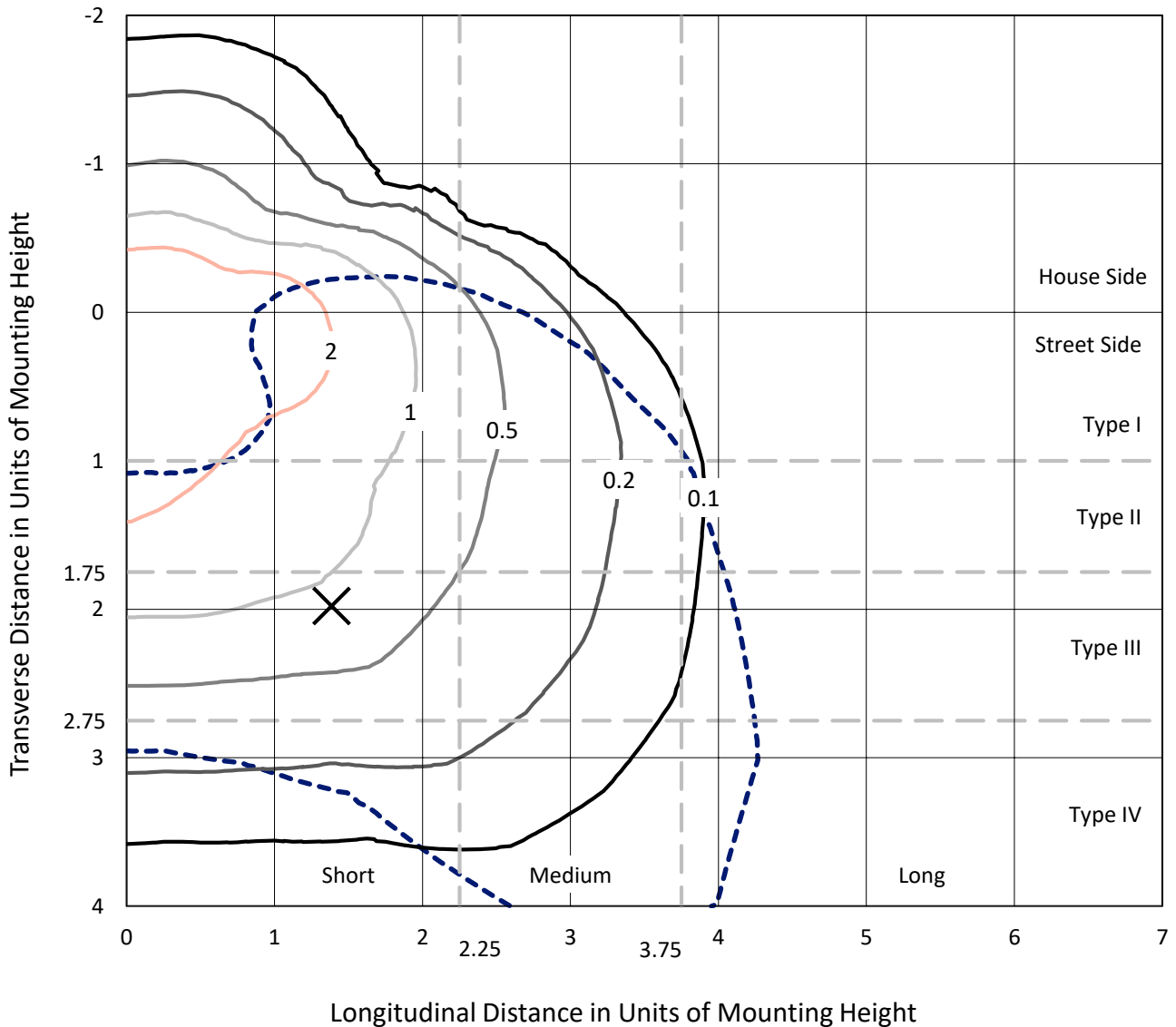
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

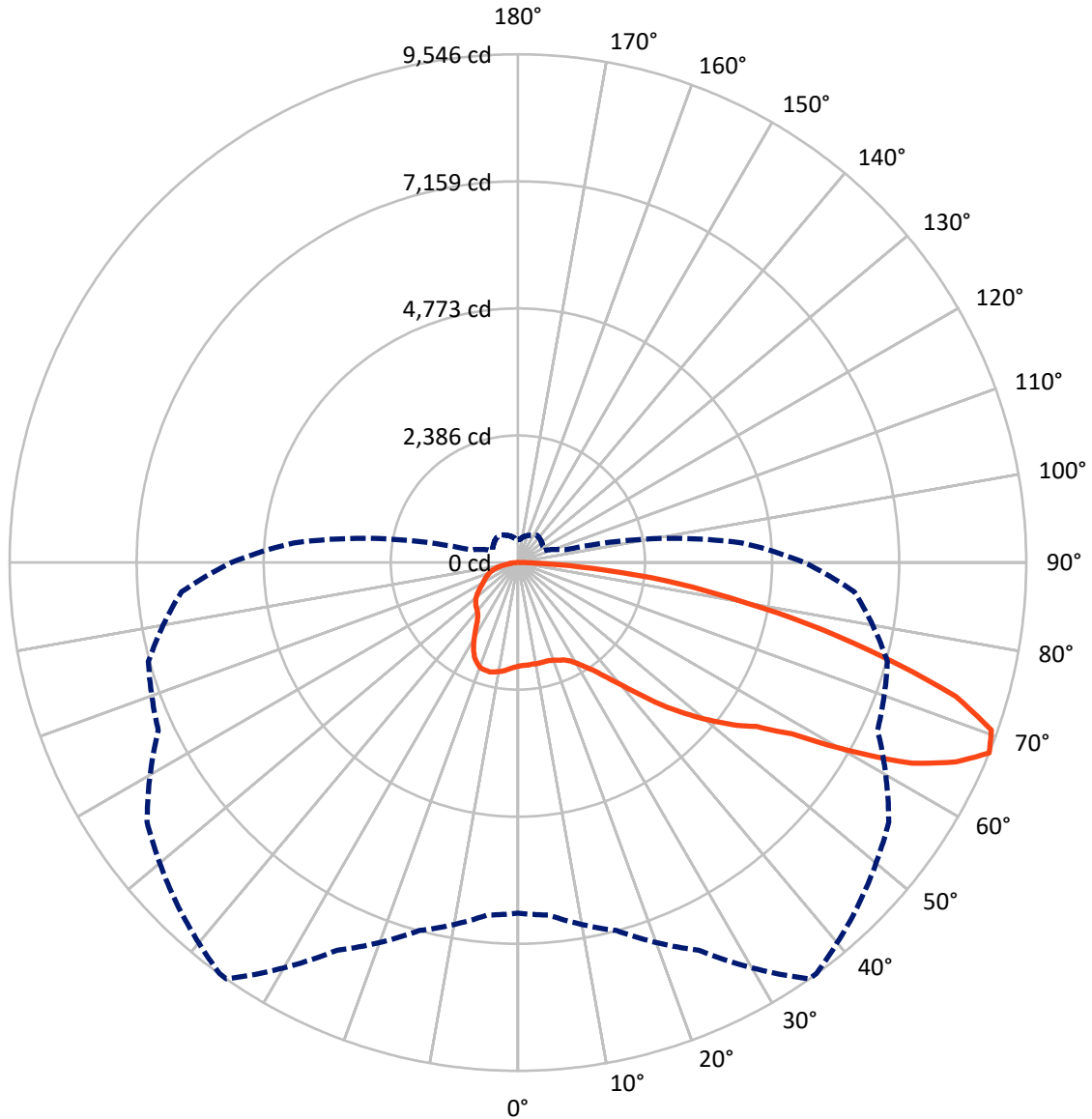
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.2	0.0	3858.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13076.8	0.0	13076.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	16935.0	0.0	16935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	1.1
10°-20°	577.7	3.4
20°-30°	964.1	5.7
30°-40°	1483.4	8.8
40°-50°	2444.6	14.4
50°-60°	3491.6	20.6
60°-70°	4347.3	25.7
70°-80°	2933.7	17.3
80°-90°	504.3	3.0
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°	16935.0	100.0
0°-180°	16935.0	100.0

Coefficient of Utilization



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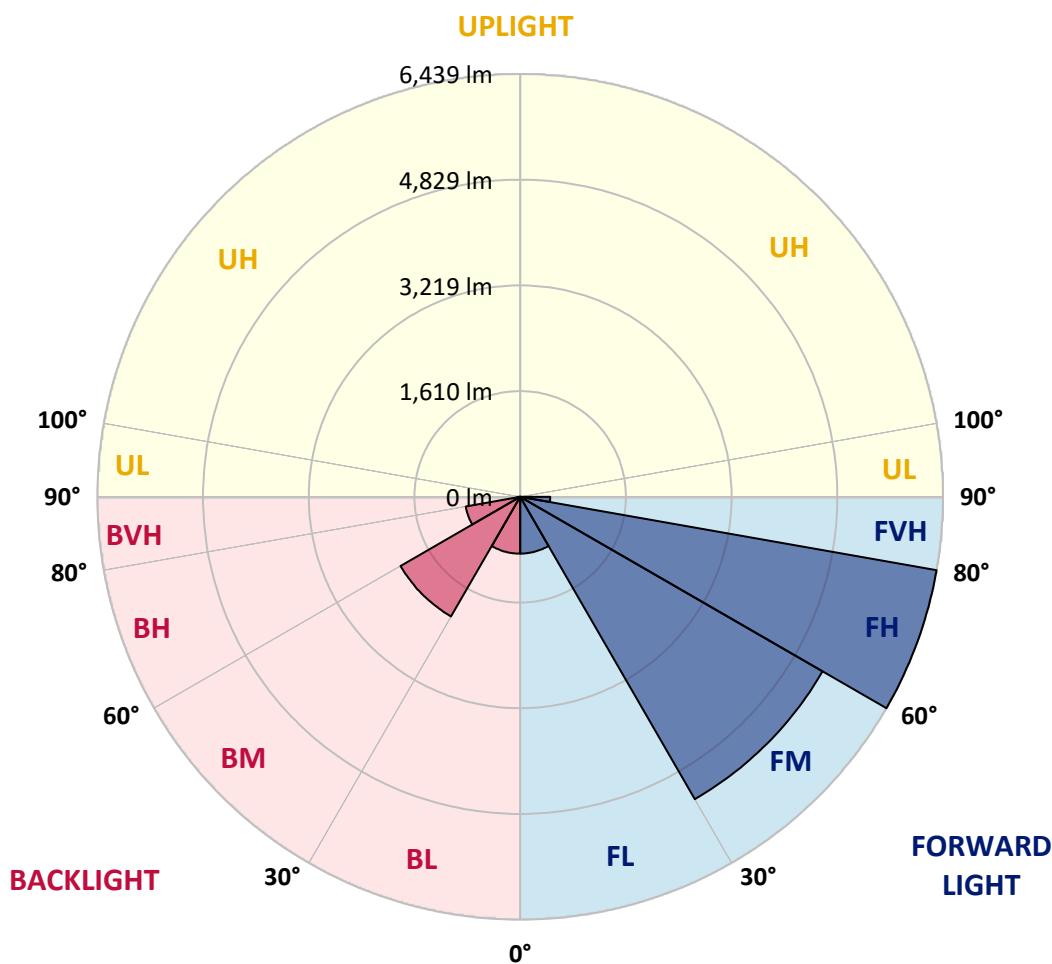
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.2	5.1			
FM	(30°-60°)	5316.1	31.4			
FH	(60°-80°)	6438.8	38.0			G3/7500
FVH	(80°-90°)	457.7	2.7			G3/500
BL	(0°-30°)	865.9	5.1	B2/1000		
BM	(30°-60°)	2103.5	12.4	B2/2500		
BH	(60°-80°)	842.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	46.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0
2.5°	1918.7	1936.9	1935.1	1931.4	1933.3	1935.1	1926.0	1920.5	1927.8	1929.6	1938.7
5°	1916.8	1931.4	1929.6	1929.6	1935.1	1933.3	1918.7	1907.7	1920.5	1929.6	1938.7
7.5°	1915.0	1927.8	1927.8	1922.3	1926.0	1926.0	1918.7	1926.0	1926.0	1940.6	1951.5
10°	1913.2	1924.1	1924.1	1926.0	1931.4	1933.3	1933.3	1938.7	1958.8	1964.3	1986.2
12.5°	1891.3	1900.4	1907.7	1918.7	1929.6	1933.3	1942.4	1958.8	1984.4	1997.2	2022.7
15°	1873.0	1885.8	1898.6	1909.5	1926.0	1929.6	1949.7	1977.1	2004.5	2031.8	2070.2
17.5°	1880.3	1896.8	1911.4	1920.5	1933.3	1936.9	1957.0	1993.5	2037.3	2077.5	2130.4
20°	1896.8	1915.0	1929.6	1940.6	1957.0	1960.7	1977.1	2011.8	2068.4	2130.4	2190.7
22.5°	1936.9	1949.7	1966.1	1971.6	1989.9	1993.5	2004.5	2039.2	2112.2	2190.7	2267.3
25°	1973.4	1988.0	2000.8	2006.3	2026.4	2030.0	2050.1	2079.3	2165.1	2254.6	2365.9
27.5°	2020.9	2035.5	2051.9	2057.4	2092.1	2095.7	2104.9	2148.7	2234.5	2338.5	2477.3
30°	2112.2	2121.3	2139.6	2161.5	2196.2	2199.8	2219.9	2265.5	2327.6	2455.4	2639.8
32.5°	2250.9	2263.7	2256.4	2285.6	2336.7	2336.7	2406.1	2482.8	2559.4	2648.9	2893.5
35°	2517.4	2510.1	2502.8	2477.3	2508.3	2519.3	2616.0	2745.6	2959.2	3211.2	3452.1
37.5°	2847.9	2846.1	2807.7	2749.3	2747.5	2751.1	2838.7	3057.8	3397.4	3957.8	4217.0
40°	3355.4	3370.0	3234.9	3114.4	3046.9	3032.3	3101.6	3377.3	3833.7	4580.3	4757.4
42.5°	3862.9	3831.9	3722.3	3527.0	3413.8	3404.7	3417.5	3658.4	4257.2	5084.2	5148.1
45°	4312.0	4335.7	4164.1	4045.4	3837.3	3841.0	3784.4	4005.3	4677.1	5440.2	5451.1
47.5°	4770.2	4788.4	4574.9	4439.8	4240.8	4240.8	4151.3	4326.6	5051.3	5779.7	5757.8
50°	5259.4	5301.4	5033.1	4828.6	4646.1	4638.8	4611.4	4720.9	5420.1	6066.3	5978.7
52.5°	5920.3	5776.1	5522.3	5244.8	5064.1	5042.2	5016.6	5095.1	5843.6	6300.0	6121.1
55°	6603.1	6407.7	6148.5	5776.1	5434.7	5465.7	5401.8	5491.3	6232.5	6579.3	6307.3
57.5°	7017.5	7090.5	6949.9	6630.4	6068.2	6062.7	5821.7	5869.2	6581.1	6814.8	6504.5
60°	7453.8	7556.0	7650.9	7461.1	7194.5	7074.1	6455.2	6270.8	6973.6	6986.4	6482.6
62.5°	7682.0	7661.9	8074.5	8096.4	8302.7	8317.3	7713.0	6791.1	7205.5	7130.6	6559.2
65°	7274.9	7285.8	7964.9	8319.1	9029.2	9071.2	8850.3	7705.7	7400.8	7198.2	6471.6
67.5°	6584.8	6646.9	7156.2	8032.5	9545.9	9538.6	9060.3	8501.6	7451.9	7183.6	6343.8
70°	5385.4	5451.1	5973.2	7245.7	9432.7	9372.4	8970.8	8565.5	7408.1	7052.1	5706.7
72.5°	4131.2	4122.1	4662.5	5787.0	8600.2	8658.6	8512.6	8114.6	7198.2	6489.9	4675.3
75°	2911.8	2866.1	3346.3	4386.8	7092.3	7307.7	7806.1	7696.6	6404.1	5341.6	3125.4
77.5°	1911.4	1980.7	2364.1	3244.0	5577.1	5757.8	6446.1	6228.8	4739.2	3408.3	1128.2
80°	1214.0	1276.1	1586.4	2316.6	4054.6	4136.7	4699.0	3961.5	2532.1	1124.5	157.0
82.5°	737.5	746.7	1022.3	1566.3	2796.8	2796.8	2959.2	2214.4	991.3	146.0	102.2
85°	392.5	414.4	551.3	845.2	1409.3	1515.2	1341.8	845.2	191.7	80.3	62.1
87.5°	124.1	126.0	180.7	326.8	303.0	312.2	104.1	43.8	21.9	14.6	12.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0	1946.0
2.5°	1942.4	1944.2	1955.2	1960.7	1962.5	1957.0	1969.8	1988.0	1982.6	2002.6	1995.3
5°	1942.4	1951.5	1966.1	1964.3	1978.9	1986.2	2000.8	2019.1	2013.6	2042.8	2031.8
7.5°	1957.0	1971.6	1982.6	2004.5	2015.4	2011.8	2044.6	2059.2	2051.9	2073.8	2062.9
10°	1993.5	2009.9	2024.5	2048.3	2064.7	2057.4	2075.7	2084.8	2072.0	2093.9	2088.4
12.5°	2035.5	2053.8	2083.0	2099.4	2112.2	2099.4	2099.4	2093.9	2075.7	2095.7	2083.0
15°	2083.0	2106.7	2146.9	2165.1	2161.5	2139.6	2119.5	2081.1	2031.8	2041.0	2022.7
17.5°	2146.9	2176.1	2221.7	2232.7	2218.1	2165.1	2112.2	2042.8	1955.2	1933.3	1918.7
20°	2216.2	2249.1	2313.0	2307.5	2274.6	2181.5	2097.6	1989.9	1852.9	1790.9	1761.7
22.5°	2311.2	2344.0	2404.3	2371.4	2303.9	2181.5	2039.2	1889.5	1727.0	1635.7	1615.6
25°	2415.2	2460.9	2486.4	2413.4	2296.6	2132.3	1960.7	1763.5	1555.4	1456.8	1436.7
27.5°	2543.0	2574.0	2548.5	2418.9	2260.0	2050.1	1832.9	1595.5	1396.6	1312.6	1283.4
30°	2692.7	2696.4	2595.9	2407.9	2177.9	1933.3	1675.9	1425.8	1272.4	1193.9	1175.7
32.5°	2891.7	2855.2	2637.9	2356.8	2066.5	1772.6	1500.6	1312.6	1184.8	1086.2	1060.7
35°	3410.1	3244.0	2731.0	2298.4	1931.4	1593.7	1349.1	1210.3	1102.6	991.3	971.2
37.5°	4082.0	3788.0	2895.3	2238.1	1778.1	1429.4	1248.7	1150.1	1058.8	934.7	907.3
40°	4585.8	4246.3	3149.1	2172.4	1637.5	1312.6	1193.9	1126.4	1026.0	912.8	883.6
42.5°	4971.0	4627.8	3410.1	2099.4	1506.1	1221.3	1155.6	1109.9	1013.2	907.3	883.6
45°	5237.5	4894.3	3634.7	2013.6	1338.1	1142.8	1126.4	1082.6	989.5	887.2	863.5
47.5°	5507.7	5082.4	3760.7	1924.1	1197.6	1099.0	1084.4	1035.1	949.3	852.5	834.3
50°	5743.2	5296.0	3868.4	1832.9	1086.2	1046.0	1036.9	971.2	889.0	797.8	774.0
52.5°	5810.8	5347.1	3824.6	1827.4	985.8	989.5	971.2	918.3	841.6	743.0	719.3
55°	5964.1	5489.5	3718.7	1659.4	889.0	901.8	898.2	870.8	799.6	708.3	690.1
57.5°	6029.8	5381.8	3565.3	1234.1	788.6	799.6	830.6	830.6	768.6	686.4	670.0
60°	6020.7	5385.4	3291.5	863.5	690.1	719.3	763.1	763.1	713.8	633.5	613.4
62.5°	5951.3	5246.7	2836.9	659.0	628.0	670.0	721.1	688.2	644.4	555.0	540.4
65°	5836.3	4865.1	1966.1	578.7	593.3	642.6	668.2	628.0	575.1	494.7	485.6
67.5°	5376.3	4226.2	914.6	529.4	564.1	602.4	624.3	567.7	513.0	440.0	429.0
70°	4576.7	3092.5	394.3	491.1	529.4	556.8	578.7	520.3	461.9	398.0	394.3
72.5°	3328.0	1650.3	328.6	430.8	471.0	500.2	527.6	469.2	412.6	337.7	337.7
75°	1602.8	273.8	283.0	357.8	394.3	452.7	465.5	383.4	319.5	257.4	251.9
77.5°	197.2	177.1	244.6	284.8	315.8	346.9	377.9	332.3	275.7	211.8	200.8
80°	124.1	124.1	193.5	199.0	215.4	248.3	277.5	259.2	217.2	122.3	113.2
82.5°	91.3	98.6	127.8	94.9	113.2	142.4	162.5	184.4	157.0	85.8	80.3
85°	58.4	63.9	60.2	47.5	62.1	94.9	129.6	127.8	105.9	63.9	60.2
87.5°	12.8	12.8	12.8	11.0	12.8	16.4	31.0	60.2	43.8	34.7	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)