

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: P233867

Luminaire Tested: **VERD-G-C02-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T4-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1175mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14932 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 138
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

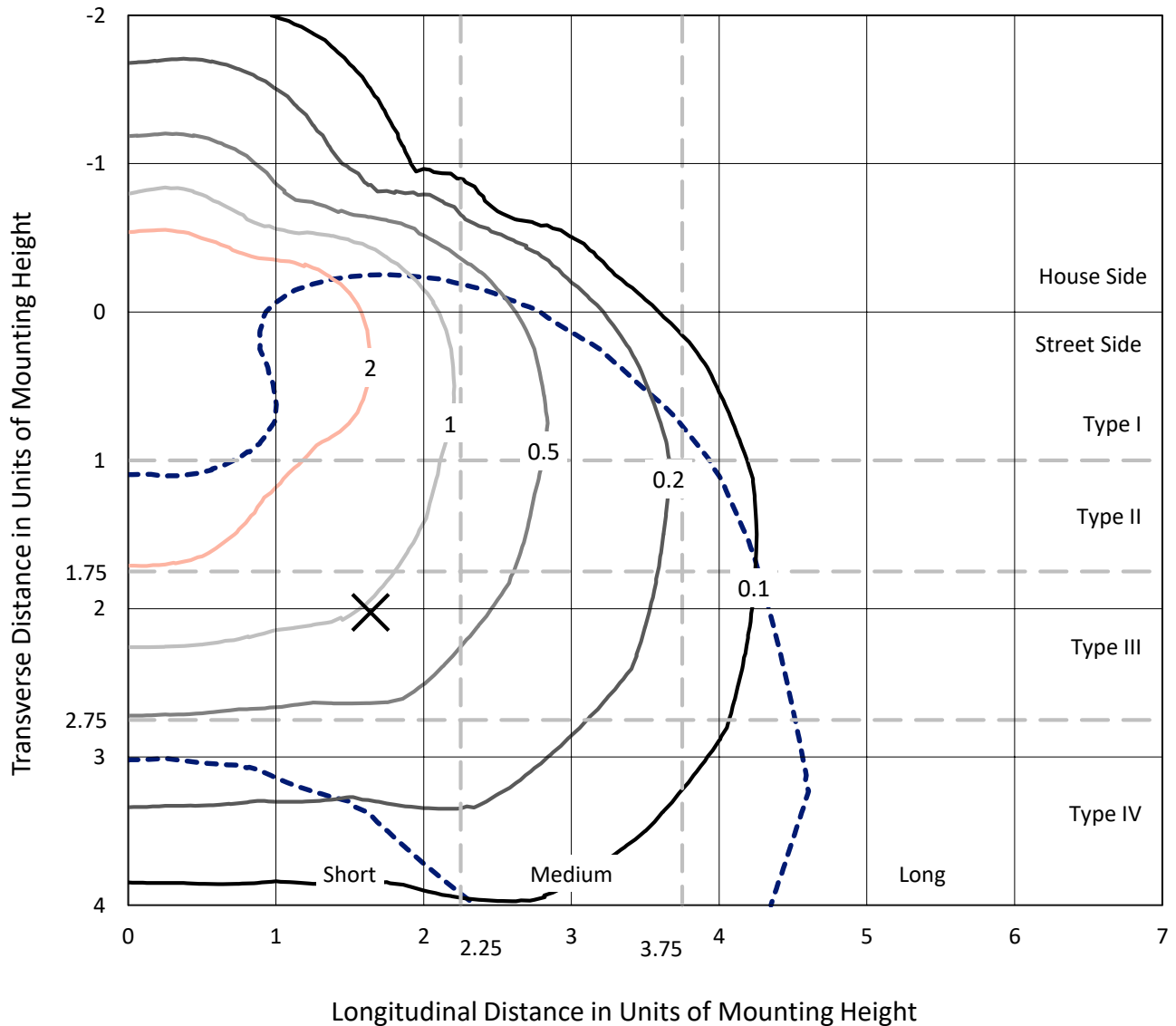


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

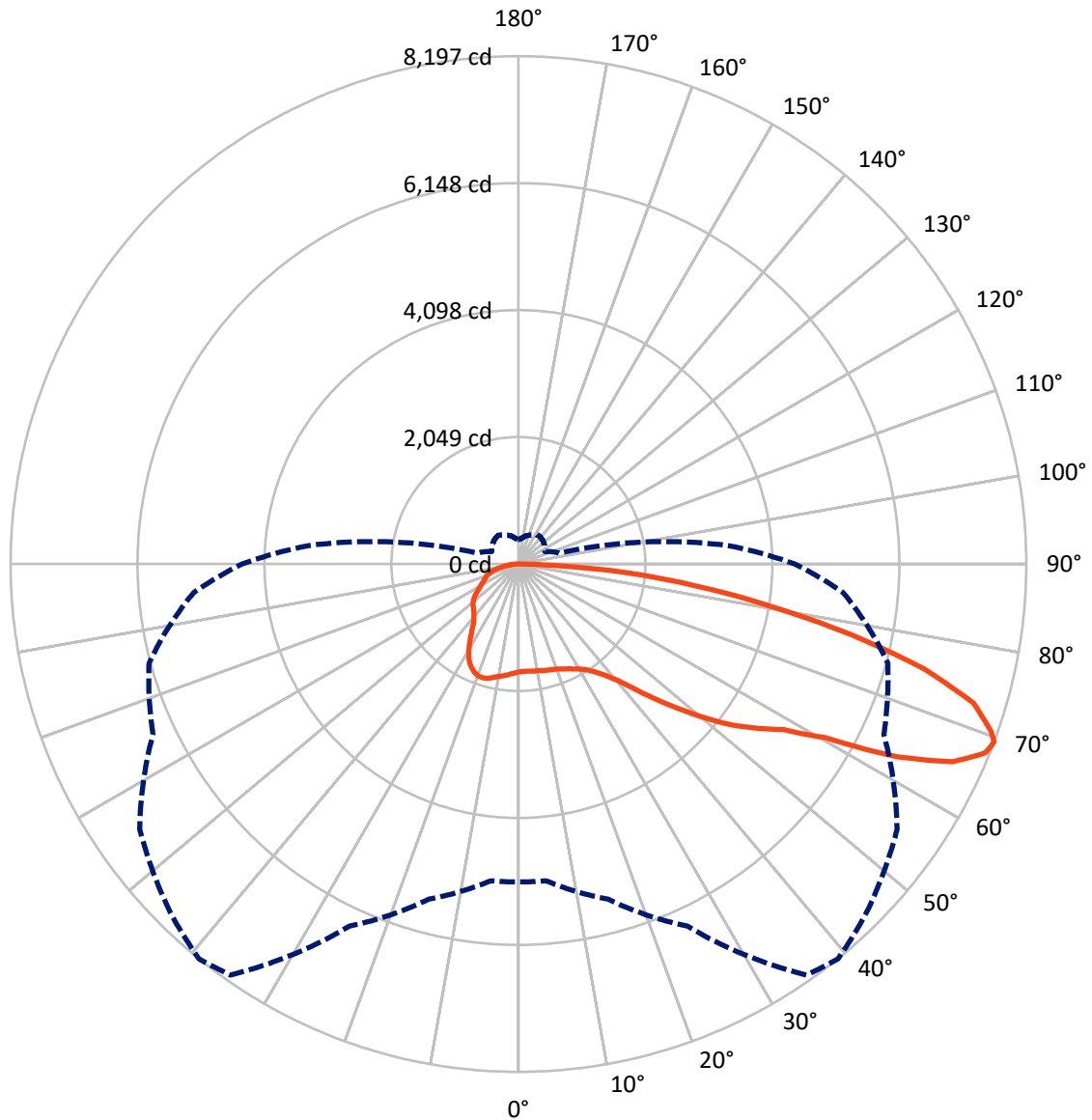


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3500.3	0.0	3500.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	11431.7	0.0	11431.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	14932.0	0.0	14932.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.1
10°-20°	522.4	3.5
20°-30°	879.4	5.9
30°-40°	1274.1	8.5
40°-50°	2059.5	13.8
50°-60°	3015.1	20.2
60°-70°	3773.8	25.3
70°-80°	2697.8	18.1
80°-90°	540.9	3.6
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°	14932.0	100.0
0°-180°	14932.0	100.0



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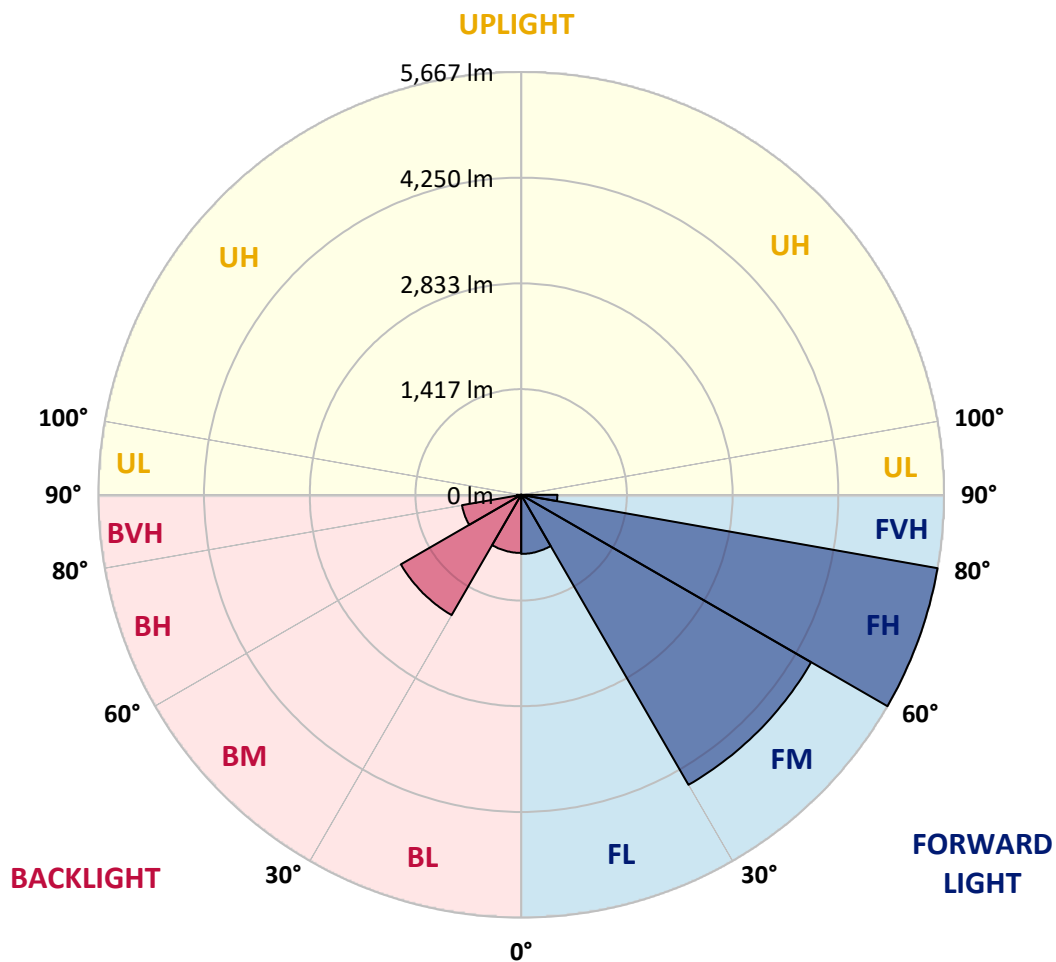
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.2	5.3			
FM (30°-60°)	4487.3	30.1			
FH (60°-80°)	5666.6	37.9			G3/7500
FVH (80°-90°)	485.6	3.3			G3/500
BL (0°-30°)	778.7	5.2	B2/1000		
BM (30°-60°)	1861.4	12.5	B2/2500		
BH (60°-80°)	805.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	55.3	0.4			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°	39°	45°	55°	65°	75°	85°
0°	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3
2.5°	1769.6	1766.8	1761.3	1739.3	1736.5	1735.2	1737.9	1729.7	1728.3	1731.0	1728.3
5°	1770.9	1768.2	1761.3	1742.0	1739.3	1736.5	1737.9	1731.0	1732.4	1739.3	1739.3
7.5°	1773.7	1770.9	1764.1	1743.4	1748.9	1746.2	1751.7	1742.0	1742.0	1747.5	1748.9
10°	1766.8	1765.4	1761.3	1746.2	1754.4	1748.9	1754.4	1755.8	1761.3	1765.4	1764.1
12.5°	1748.9	1748.9	1748.9	1742.0	1765.4	1764.1	1773.7	1783.3	1797.1	1804.0	1808.1
15°	1737.9	1736.5	1746.2	1744.8	1773.7	1777.8	1794.3	1819.1	1839.7	1857.6	1863.1
17.5°	1748.9	1748.9	1761.3	1758.6	1787.4	1790.2	1808.1	1843.9	1878.3	1912.7	1927.8
20°	1761.3	1762.7	1777.8	1781.9	1809.5	1808.1	1826.0	1870.0	1916.8	1967.7	1993.9
22.5°	1799.8	1798.5	1810.8	1802.6	1834.2	1839.7	1854.9	1893.4	1959.5	2024.1	2066.8
25°	1828.7	1832.9	1845.2	1839.7	1865.9	1872.8	1897.5	1934.7	2013.1	2090.2	2165.9
27.5°	1856.2	1864.5	1874.1	1872.8	1908.5	1916.8	1936.1	1993.9	2084.7	2176.9	2282.8
30°	1897.5	1894.8	1901.7	1914.0	1960.8	1966.3	1989.7	2059.9	2170.0	2289.7	2431.4
32.5°	1952.6	1949.8	1956.7	1967.7	2024.1	2037.9	2069.5	2145.2	2284.2	2428.7	2602.1
35°	2039.3	2046.1	2051.6	2065.4	2120.4	2139.7	2182.4	2278.7	2439.7	2670.9	2918.5
37.5°	2340.6	2325.5	2295.2	2240.2	2255.3	2277.3	2337.9	2475.5	2709.4	3101.5	3328.6
40°	2811.2	2793.3	2698.4	2537.4	2464.5	2470.0	2529.1	2716.3	3035.5	3607.9	3817.1
42.5°	3254.3	3232.3	3119.4	2918.5	2774.1	2757.5	2763.0	2979.1	3393.3	4114.3	4225.8
45°	3672.6	3683.6	3511.6	3357.5	3192.4	3116.7	3093.3	3254.3	3790.9	4553.2	4587.6
47.5°	4073.0	4081.3	3887.3	3738.6	3579.0	3491.0	3445.6	3570.8	4157.0	4908.3	4876.6
50°	4481.7	4503.7	4238.1	4111.5	3964.3	3901.0	3857.0	3939.5	4561.5	5248.1	5150.4
52.5°	5058.2	4966.1	4617.9	4439.0	4334.5	4315.2	4269.8	4337.2	4990.8	5548.1	5344.5
55°	5699.5	5502.7	5136.7	4824.3	4679.8	4679.8	4639.9	4718.4	5433.9	5772.4	5502.7
57.5°	5907.2	5926.5	5799.9	5460.0	5072.0	5041.7	5003.2	5110.5	5813.7	5973.3	5561.9
60°	6270.5	6324.2	6421.9	6138.4	5947.2	5689.8	5455.9	5513.7	6141.2	6138.4	5625.2
62.5°	6450.8	6501.7	6807.2	6654.4	6834.7	6852.6	6415.0	5969.2	6383.4	6221.0	5655.4
65°	6280.2	6315.9	6723.2	6924.1	7447.0	7696.1	7480.0	6581.5	6511.3	6186.6	5542.6
67.5°	5720.1	5787.5	6124.7	6737.0	7993.3	8132.3	7930.0	7422.2	6566.4	6197.6	5451.8
69°	5131.2	5132.6	5600.4	6449.4	8100.6	8196.9	7949.3	7462.2	6508.6	6171.4	5257.8
70°	4799.6	4834.0	5180.7	6200.3	8060.7	8092.4	7902.5	7460.8	6468.7	6163.2	5073.4
72.5°	3745.5	3727.6	4073.0	5184.8	7609.4	7679.6	7470.4	7250.2	6435.6	5808.2	4291.8
75°	2618.6	2673.6	3012.1	3928.5	6556.7	6767.3	6767.3	6965.4	5923.8	4963.3	3102.9
77.5°	1948.4	1956.7	2227.8	3001.1	5275.7	5494.4	5695.3	5861.8	4630.3	3400.1	1387.0
80°	1319.6	1332.0	1579.7	2214.0	3909.3	4110.2	4428.0	4033.1	2754.8	1176.5	158.2
82.5°	831.1	847.6	1044.4	1554.9	2786.4	2877.3	2975.0	2277.3	917.8	136.2	100.4
85°	494.0	496.7	630.2	993.5	1699.4	1704.9	1600.3	1048.5	246.3	81.2	63.3
87.5°	206.4	217.4	275.2	440.3	498.1	393.5	244.9	83.9	37.2	33.0	22.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3	1739.3
2.5°	1720.0	1735.2	1732.4	1736.5	1742.0	1753.0	1765.4	1759.9	1766.8	1781.9	1781.9
5°	1735.2	1747.5	1751.7	1759.9	1766.8	1777.8	1786.1	1783.3	1798.5	1820.5	1820.5
7.5°	1747.5	1757.2	1770.9	1780.6	1787.4	1809.5	1817.7	1812.2	1823.2	1849.4	1850.7
10°	1765.4	1775.1	1795.7	1805.3	1819.1	1830.1	1841.1	1839.7	1850.7	1874.1	1878.3
12.5°	1809.5	1816.3	1845.2	1859.0	1859.0	1872.8	1864.5	1850.7	1856.2	1870.0	1872.8
15°	1867.3	1876.9	1914.0	1920.9	1914.0	1916.8	1897.5	1853.5	1831.5	1835.6	1837.0
17.5°	1933.3	1949.8	1992.5	1982.8	1974.6	1953.9	1904.4	1838.4	1772.3	1747.5	1751.7
20°	2003.5	2024.1	2073.7	2053.0	2022.7	1969.1	1889.3	1776.4	1674.6	1615.4	1612.7
22.5°	2084.7	2110.8	2157.6	2121.8	2054.4	1960.8	1838.4	1700.8	1571.4	1479.2	1473.7
25°	2196.1	2225.0	2241.5	2170.0	2059.9	1930.6	1765.4	1597.6	1435.2	1325.1	1316.9
27.5°	2322.7	2337.9	2304.8	2197.5	2033.8	1865.9	1674.6	1466.8	1288.0	1197.1	1184.8
30°	2463.1	2450.7	2347.5	2183.7	1966.3	1764.1	1532.9	1300.3	1157.2	1084.3	1073.3
32.5°	2625.4	2586.9	2380.5	2145.2	1876.9	1630.6	1378.8	1194.4	1080.2	1007.2	1001.7
35°	2892.4	2782.3	2434.2	2086.0	1758.6	1473.7	1237.0	1103.6	1014.1	923.3	909.5
37.5°	3279.1	3071.3	2512.6	2031.0	1630.6	1322.4	1129.7	1030.6	952.2	850.4	831.1
40°	3680.9	3411.2	2642.0	1970.5	1510.9	1210.9	1070.5	1000.4	923.3	827.0	800.8
42.5°	4048.2	3734.5	2793.3	1894.8	1385.7	1121.5	1041.6	992.1	915.1	824.2	803.6
45°	4381.2	4038.6	2948.8	1808.1	1248.0	1049.9	1018.3	977.0	898.5	811.9	795.3
47.5°	4662.0	4297.3	3105.7	1707.6	1116.0	1005.9	993.5	949.5	876.5	792.6	778.8
50°	4894.5	4483.1	3195.1	1601.7	1007.2	972.8	957.7	902.7	828.4	749.9	741.7
52.5°	5066.5	4598.7	3276.3	1545.3	921.9	919.2	909.5	855.9	784.3	703.1	686.6
55°	5186.2	4693.6	3240.5	1501.2	831.1	851.8	846.3	813.2	752.7	657.7	644.0
57.5°	5193.1	4701.9	3163.5	1239.8	741.7	770.6	780.2	785.7	718.3	634.3	617.8
60°	5186.2	4641.3	3020.4	909.5	655.0	689.4	725.2	725.2	678.4	595.8	583.4
62.5°	5154.6	4521.6	2687.4	648.1	586.2	631.6	678.4	657.7	617.8	551.8	539.4
65°	5010.1	4322.1	2102.6	528.4	557.3	598.6	620.6	591.7	540.8	472.0	466.5
67.5°	4747.3	3865.2	1216.4	484.4	532.5	569.7	587.6	543.5	495.4	429.3	426.6
69°	4458.3	3402.9	685.3	473.4	517.4	550.4	565.5	517.4	470.6	407.3	394.9
70°	4199.6	2990.1	445.8	463.7	502.2	538.0	549.0	499.5	455.5	390.8	382.5
72.5°	3181.4	1801.2	300.0	423.8	461.0	488.5	505.0	458.2	408.7	344.0	327.5
75°	1737.9	489.9	264.2	363.3	410.1	447.2	451.3	392.2	320.6	254.6	247.7
77.5°	338.5	167.9	227.0	300.0	326.1	370.1	367.4	327.5	278.0	216.0	207.8
80°	128.0	121.1	189.9	214.7	229.8	276.6	293.1	264.2	231.2	147.2	126.6
82.5°	86.7	89.4	141.7	126.6	140.4	163.7	206.4	200.9	183.0	100.4	89.4
85°	60.5	70.2	78.4	53.7	68.8	103.2	136.2	132.1	112.8	70.2	63.3
87.5°	17.9	19.3	22.0	27.5	42.7	77.1	111.5	92.2	61.9	52.3	45.4
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)