

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: P233595

Luminaire Tested: **VERD-C02H-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233595
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-C02H-D-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14649 lumens
Efficiency: N/A
Efficacy: 122.1 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

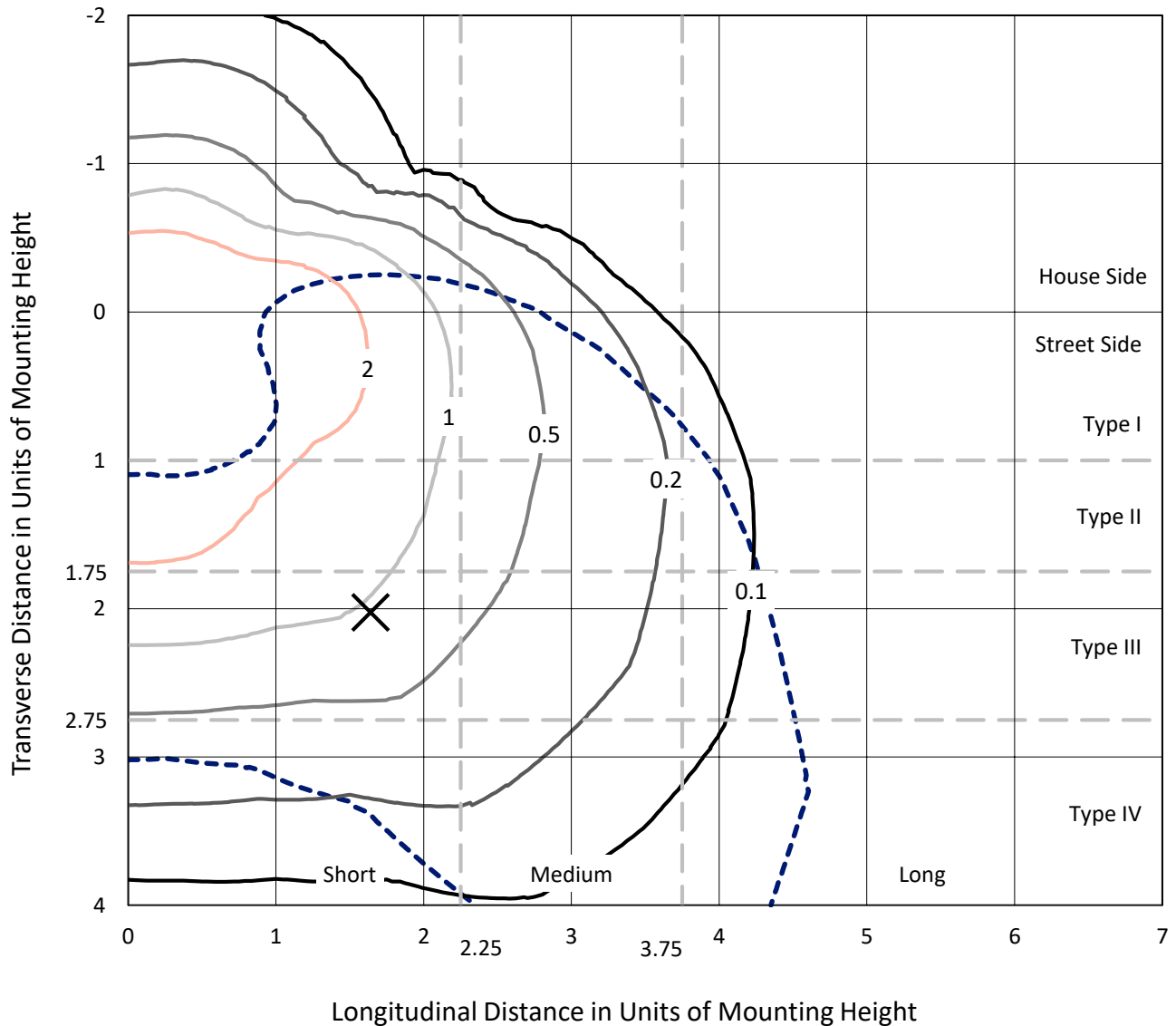
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

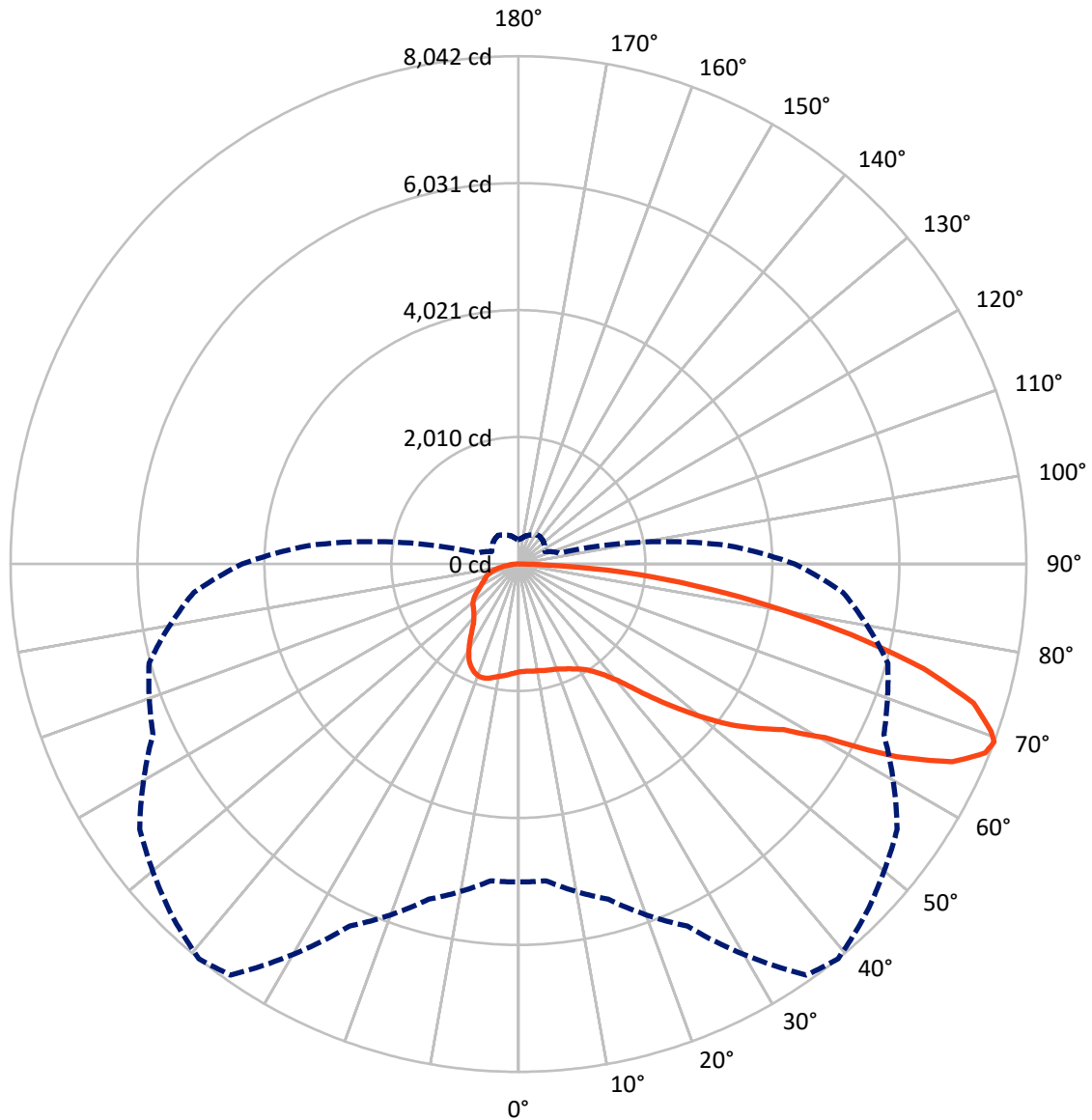
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	3434.0	0.0	3434.0
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	11215.0	0.0	11215.0
	% Fixture	76.6	0.0	76.6
Total	Lumens	14649.0	0.0	14649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.1
10°-20°	512.5	3.5
20°-30°	862.8	5.9
30°-40°	1249.9	8.5
40°-50°	2020.5	13.8
50°-60°	2957.9	20.2
60°-70°	3702.3	25.3
70°-80°	2646.7	18.1
80°-90°	530.6	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°	14649.0	100.0
0°-180°	14649.0	100.0



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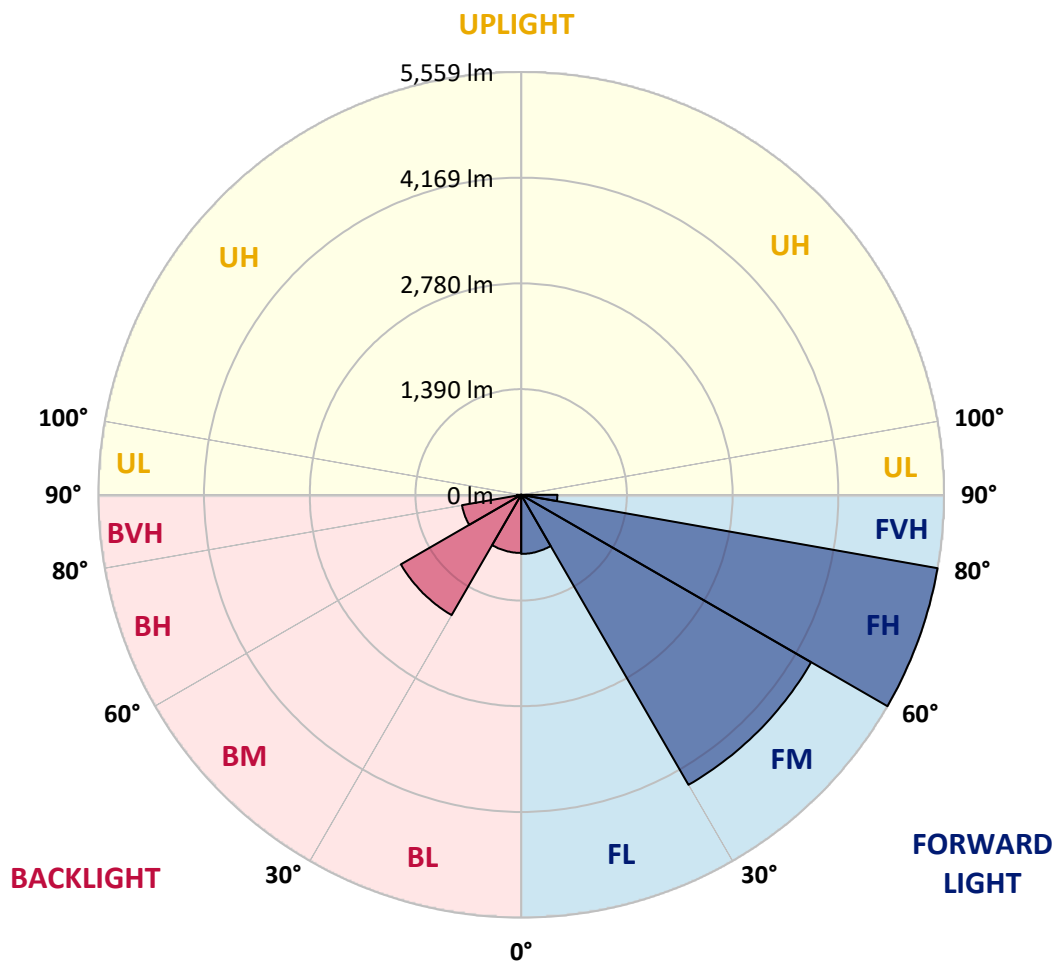
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.2	5.3			
FM	(30°-60°)	4402.2	30.1			
FH	(60°-80°)	5559.2	37.9			G3/7500
FVH	(80°-90°)	476.4	3.3			G3/500
BL	(0°-30°)	763.9	5.2	B2/1000		
BM	(30°-60°)	1826.1	12.5	B2/2500		
BH	(60°-80°)	789.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	54.2	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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1736.0	1733.3	1727.9	1706.3	1703.6	1702.3	1705.0	1696.9	1695.5	1698.2	1695.5
5°	1737.4	1734.7	1727.9	1709.0	1706.3	1703.6	1705.0	1698.2	1699.6	1706.3	1706.3
7.5°	1740.1	1737.4	1730.6	1710.4	1715.8	1713.1	1718.5	1709.0	1709.0	1714.4	1715.8
10°	1733.3	1732.0	1727.9	1713.1	1721.2	1715.8	1721.2	1722.5	1727.9	1732.0	1730.6
12.5°	1715.8	1715.8	1715.8	1709.0	1732.0	1730.6	1740.1	1749.5	1763.0	1769.8	1773.8
15°	1705.0	1703.6	1713.1	1711.7	1740.1	1744.1	1760.3	1784.6	1804.9	1822.4	1827.8
17.5°	1715.8	1715.8	1727.9	1725.2	1753.6	1756.3	1773.8	1808.9	1842.7	1876.4	1891.3
20°	1727.9	1729.3	1744.1	1748.2	1775.2	1773.8	1791.4	1834.6	1880.5	1930.4	1956.1
22.5°	1765.7	1764.4	1776.5	1768.4	1799.5	1804.9	1819.7	1857.5	1922.3	1985.8	2027.6
25°	1794.1	1798.1	1810.3	1804.9	1830.5	1837.3	1861.6	1898.0	1975.0	2050.6	2124.8
27.5°	1821.1	1829.2	1838.6	1837.3	1872.4	1880.5	1899.4	1956.1	2045.2	2135.6	2239.6
30°	1861.6	1858.9	1865.6	1877.8	1923.7	1929.1	1952.0	2020.9	2128.9	2246.3	2385.3
32.5°	1915.6	1912.9	1919.6	1930.4	1985.8	1999.3	2030.3	2104.6	2240.9	2382.6	2552.7
35°	2000.6	2007.4	2012.8	2026.3	2080.3	2099.2	2141.0	2235.5	2393.4	2620.2	2863.2
37.5°	2296.2	2281.4	2251.7	2197.7	2212.6	2234.2	2293.5	2428.5	2658.0	3042.8	3265.5
40°	2757.9	2740.4	2647.2	2489.3	2417.7	2423.1	2481.2	2664.8	2978.0	3539.5	3744.7
42.5°	3192.6	3171.0	3060.3	2863.2	2721.5	2705.3	2710.7	2922.6	3329.0	4036.3	4145.7
45°	3603.0	3613.8	3445.0	3293.9	3131.9	3057.6	3034.7	3192.6	3719.1	4467.0	4500.7
47.5°	3995.8	4003.9	3813.6	3667.8	3511.2	3424.8	3380.2	3503.1	4078.2	4815.2	4784.2
50°	4396.8	4418.4	4157.8	4033.6	3889.2	3827.1	3783.9	3864.9	4475.1	5148.7	5052.8
52.5°	4962.4	4871.9	4530.4	4354.9	4252.3	4233.4	4188.9	4255.0	4896.2	5443.0	5243.2
55°	5591.5	5398.4	5039.3	4732.9	4591.1	4591.1	4552.0	4628.9	5330.9	5663.0	5398.4
57.5°	5795.3	5814.2	5690.0	5356.6	4975.9	4946.2	4908.4	5013.7	5703.5	5860.1	5456.5
60°	6151.7	6204.3	6300.2	6022.1	5834.4	5582.0	5352.5	5409.2	6024.8	6022.1	5518.6
62.5°	6328.5	6378.5	6678.2	6528.3	6705.2	6722.7	6293.4	5856.0	6262.4	6103.1	5548.3
65°	6161.1	6196.2	6595.8	6792.9	7305.9	7550.2	7338.3	6456.8	6387.9	6069.3	5437.6
67.5°	5611.7	5677.8	6008.6	6609.3	7841.8	7978.1	7779.7	7281.6	6441.9	6080.1	5348.5
69°	5033.9	5035.3	5494.3	6327.2	7947.1	8041.6	7798.6	7320.7	6385.2	6054.5	5158.1
70°	4708.6	4742.3	5082.5	6082.8	7907.9	7939.0	7752.7	7319.4	6346.1	6046.4	4977.2
72.5°	3674.5	3657.0	3995.8	5086.6	7465.2	7534.0	7328.8	7112.8	6313.7	5698.1	4210.5
75°	2568.9	2622.9	2955.0	3854.1	6432.5	6639.0	6639.0	6833.4	5811.5	4869.2	3044.1
77.5°	1911.5	1919.6	2185.6	2944.2	5175.7	5390.3	5587.4	5750.7	4542.5	3335.7	1360.7
80°	1294.6	1306.7	1549.7	2172.1	3835.2	4032.3	4344.1	3956.7	2702.6	1154.2	155.2
82.5°	815.4	831.6	1024.6	1525.4	2733.6	2822.7	2918.6	2234.2	900.4	133.6	98.5
85°	484.6	487.3	618.3	974.7	1667.2	1672.6	1570.0	1028.7	241.6	79.6	62.1
87.5°	202.5	213.3	270.0	432.0	488.7	386.1	240.3	82.3	36.4	32.4	21.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1687.4	1702.3	1699.6	1703.6	1709.0	1719.8	1732.0	1726.6	1733.3	1748.2	1748.2
5°	1702.3	1714.4	1718.5	1726.6	1733.3	1744.1	1752.2	1749.5	1764.4	1786.0	1786.0
7.5°	1714.4	1723.9	1737.4	1746.8	1753.6	1775.2	1783.3	1777.9	1788.7	1814.3	1815.7
10°	1732.0	1741.4	1761.7	1771.1	1784.6	1795.4	1806.2	1804.9	1815.7	1838.6	1842.7
12.5°	1775.2	1781.9	1810.3	1823.8	1823.8	1837.3	1829.2	1815.7	1821.1	1834.6	1837.3
15°	1831.9	1841.3	1877.8	1884.5	1877.8	1880.5	1861.6	1818.4	1796.8	1800.8	1802.2
17.5°	1896.7	1912.9	1954.7	1945.3	1937.2	1916.9	1868.3	1803.5	1738.7	1714.4	1718.5
20°	1965.5	1985.8	2034.4	2014.1	1984.4	1931.8	1853.5	1742.8	1642.9	1584.8	1582.1
22.5°	2045.2	2070.8	2116.7	2081.6	2015.5	1923.7	1803.5	1668.5	1541.6	1451.2	1445.8
25°	2154.5	2182.9	2199.1	2128.9	2020.9	1894.0	1732.0	1567.3	1408.0	1300.0	1291.9
27.5°	2278.7	2293.5	2261.1	2155.9	1995.2	1830.5	1642.9	1439.0	1263.5	1174.4	1162.3
30°	2416.4	2404.2	2303.0	2142.4	1929.1	1730.6	1503.8	1275.7	1135.3	1063.8	1053.0
32.5°	2575.7	2537.9	2335.4	2104.6	1841.3	1599.7	1352.6	1171.7	1059.7	988.2	982.8
35°	2837.6	2729.6	2388.0	2046.5	1725.2	1445.8	1213.6	1082.7	994.9	905.8	892.3
37.5°	3216.9	3013.1	2465.0	1992.5	1599.7	1297.3	1108.3	1011.1	934.2	834.3	815.4
40°	3611.1	3346.5	2591.9	1933.1	1482.2	1187.9	1050.3	981.4	905.8	811.3	785.7
42.5°	3971.5	3663.7	2740.4	1858.9	1359.4	1100.2	1021.9	973.3	897.7	808.6	788.4
45°	4298.2	3962.1	2892.9	1773.8	1224.4	1030.0	999.0	958.5	881.5	796.5	780.3
47.5°	4573.6	4215.9	3046.8	1675.3	1094.8	986.8	974.7	931.5	859.9	777.6	764.1
50°	4801.7	4398.1	3134.6	1571.3	988.2	954.4	939.6	885.6	812.7	735.7	727.6
52.5°	4970.5	4511.5	3214.2	1516.0	904.5	901.8	892.3	839.7	769.5	689.8	673.6
55°	5087.9	4604.6	3179.1	1472.8	815.4	835.6	830.2	797.8	738.4	645.3	631.8
57.5°	5094.7	4612.7	3103.5	1216.3	727.6	756.0	765.4	770.8	704.7	622.3	606.1
60°	5087.9	4553.3	2963.1	892.3	642.6	676.3	711.4	711.4	665.5	584.5	572.4
62.5°	5056.9	4435.9	2636.4	635.8	575.1	619.6	665.5	645.3	606.1	541.3	529.2
65°	4915.1	4240.2	2062.7	518.4	546.7	587.2	608.8	580.5	530.5	463.0	457.6
67.5°	4657.3	3792.0	1193.3	475.2	522.4	558.9	576.4	533.2	486.0	421.2	418.5
69°	4373.8	3338.4	672.3	464.4	507.6	540.0	554.8	507.6	461.7	399.6	387.4
70°	4120.0	2933.4	437.4	454.9	492.7	527.8	538.6	490.0	446.8	383.4	375.3
72.5°	3121.1	1767.1	294.3	415.8	452.2	479.2	495.4	449.5	400.9	337.5	321.3
75°	1705.0	480.6	259.2	356.4	402.3	438.7	442.8	384.7	314.5	249.7	243.0
77.5°	332.1	164.7	222.7	294.3	319.9	363.1	360.4	321.3	272.7	211.9	203.8
80°	125.5	118.8	186.3	210.6	225.4	271.3	287.5	259.2	226.8	144.4	124.2
82.5°	85.0	87.7	139.0	124.2	137.7	160.6	202.5	197.1	179.5	98.5	87.7
85°	59.4	68.8	76.9	52.6	67.5	101.2	133.6	129.6	110.7	68.8	62.1
87.5°	17.5	18.9	21.6	27.0	41.8	75.6	109.3	90.4	60.7	51.3	44.5
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)