

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: P233849

Luminaire Tested: **VERD-G-C028-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T3-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11977 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 103
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

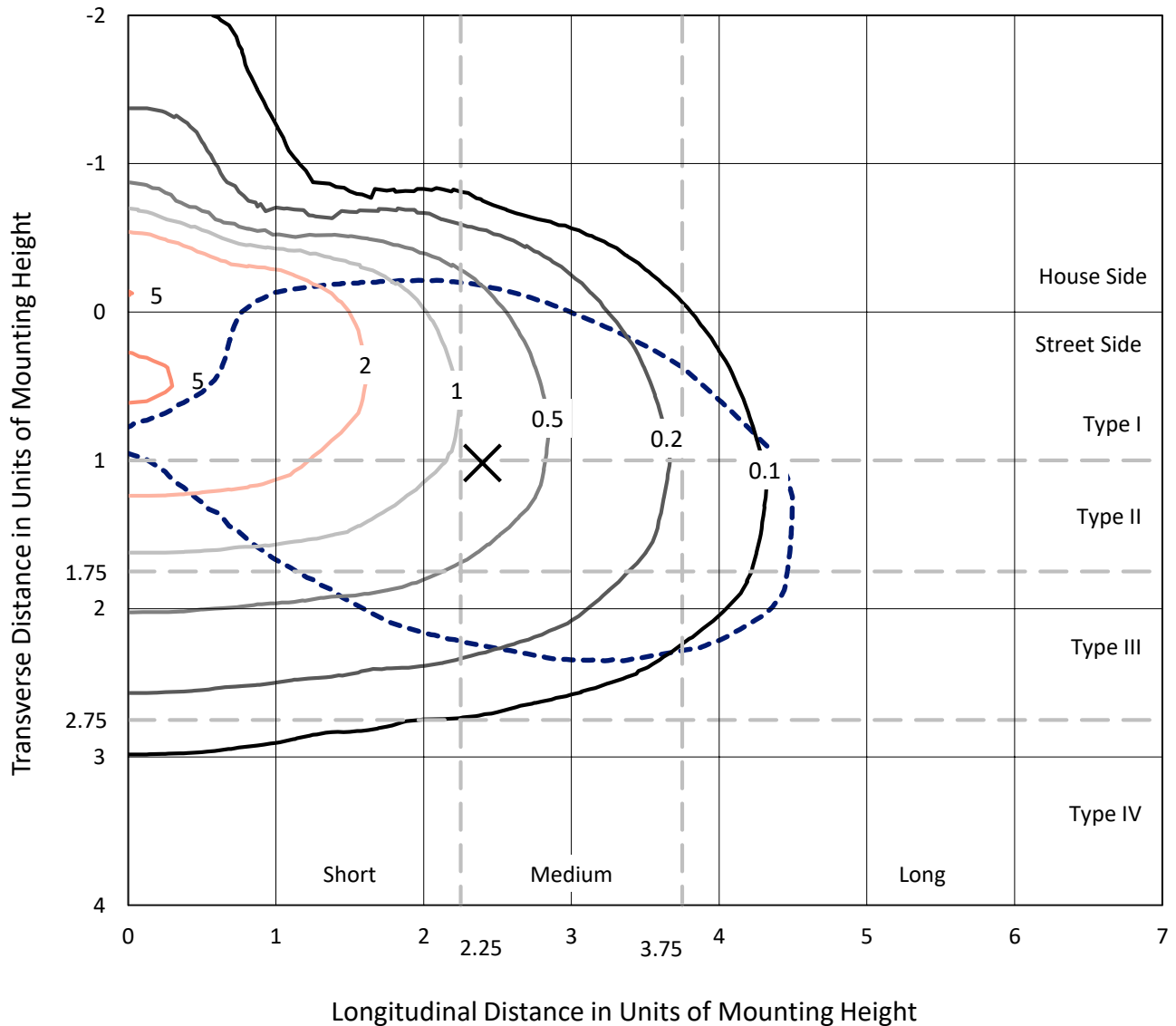


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

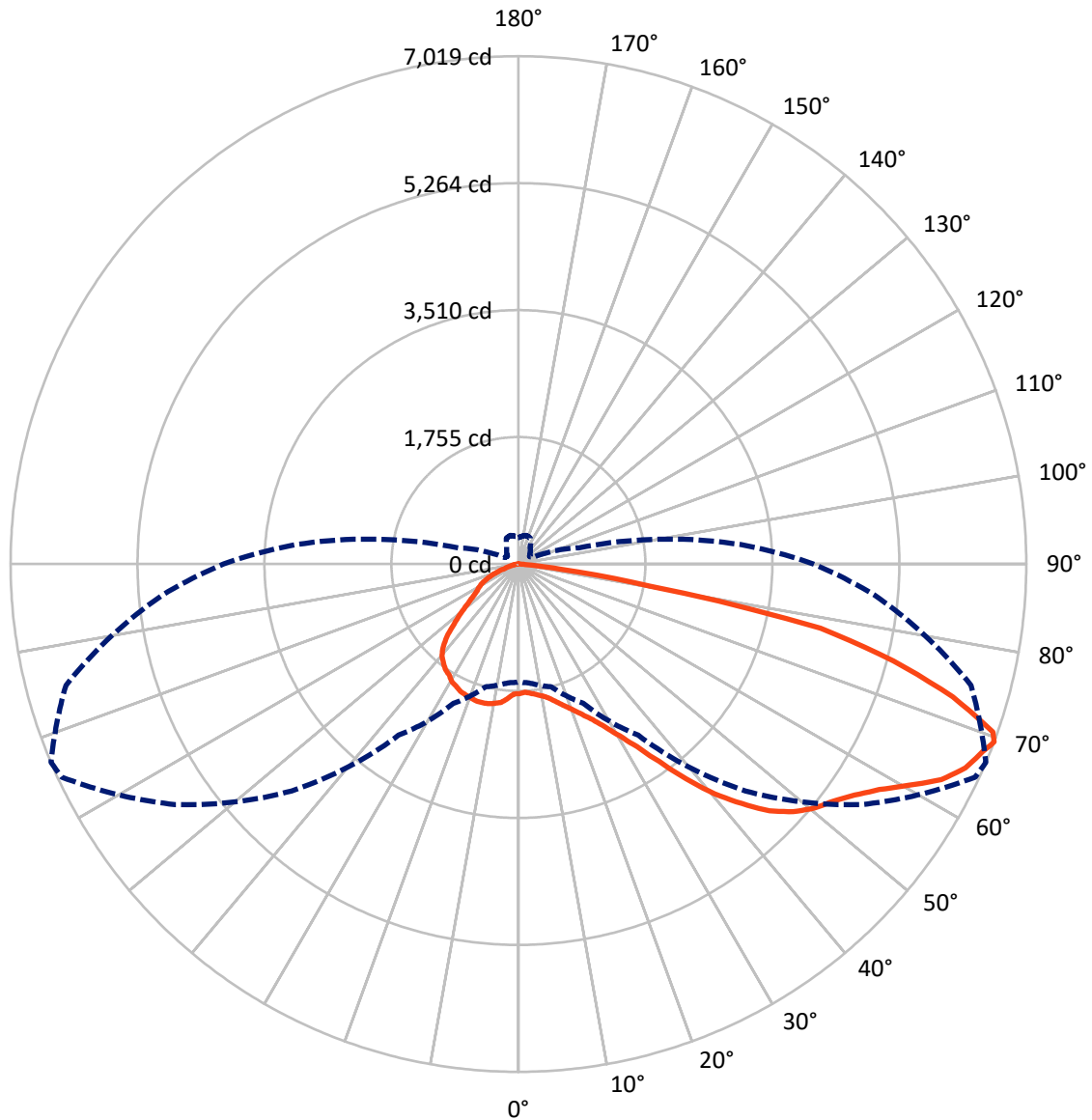


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.1	0.0	2697.1
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	9279.9	0.0	9279.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	11977.0	0.0	11977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.5
10°-20°	578.3	4.8
20°-30°	996.2	8.3
30°-40°	1481.8	12.4
40°-50°	2040.7	17.0
50°-60°	2439.5	20.4
60°-70°	2574.4	21.5
70°-80°	1542.7	12.9
80°-90°	141.9	1.2
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°	11977.0	100.0
0°-180°	11977.0	100.0



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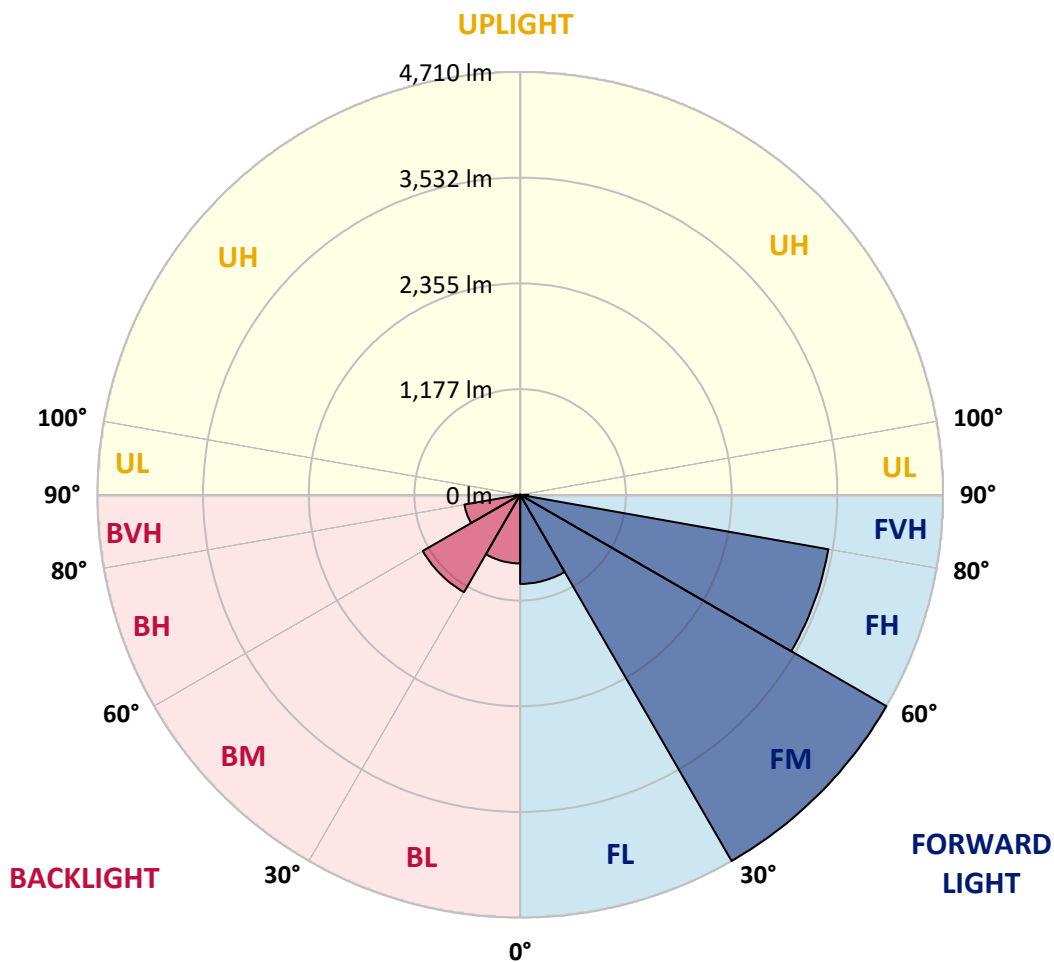
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.7	8.3			
FM	(30°-60°)	4709.9	39.3			
FH	(60°-80°)	3486.5	29.1			G2/5000
FVH	(80°-90°)	91.8	0.8			G1/100
BL	(0°-30°)	764.2	6.4	B2/1000		
BM	(30°-60°)	1252.1	10.5	B2/2500		
BH	(60°-80°)	630.6	5.3	B2/1000		G2/1000
BVH	(80°-90°)	50.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1820.9	1819.8	1814.4	1794.8	1792.6	1790.4	1777.4	1778.4	1775.2	1778.4	1779.5
5°	1871.0	1866.7	1861.2	1840.5	1832.9	1823.1	1803.5	1802.4	1794.8	1797.0	1799.1
7.5°	1933.1	1928.7	1924.4	1900.4	1892.8	1875.4	1844.9	1829.6	1823.1	1825.3	1828.5
10°	2016.9	2009.3	2002.8	1967.9	1956.0	1926.6	1889.5	1863.4	1854.7	1857.9	1866.7
12.5°	2112.8	2103.0	2092.1	2056.2	2039.8	1994.1	1950.5	1916.8	1903.7	1911.3	1917.8
15°	2211.9	2206.4	2202.1	2159.6	2136.7	2086.6	2032.2	1989.7	1977.7	1984.3	1987.5
17.5°	2342.6	2339.3	2331.7	2288.1	2244.6	2186.8	2116.1	2071.4	2059.4	2062.7	2055.1
20°	2485.2	2476.5	2472.2	2423.2	2377.4	2297.9	2216.2	2153.1	2149.8	2150.9	2126.9
22.5°	2645.3	2635.5	2626.8	2582.2	2525.5	2433.0	2326.2	2255.5	2257.6	2259.8	2206.4
25°	2808.7	2801.1	2793.5	2751.0	2694.3	2593.1	2464.6	2385.1	2384.0	2385.1	2311.0
27.5°	2979.7	2971.0	2969.9	2935.0	2878.4	2774.9	2626.8	2546.2	2546.2	2541.9	2429.7
30°	3132.2	3140.9	3140.9	3121.3	3067.9	2964.4	2825.0	2744.4	2755.3	2746.6	2604.0
32.5°	3298.8	3296.6	3311.8	3296.6	3253.0	3157.2	3040.7	2989.5	3008.0	3036.3	2893.6
35°	3395.7	3411.0	3449.1	3470.9	3450.2	3371.7	3286.8	3326.0	3351.1	3478.5	3307.5
37.5°	3507.9	3520.9	3573.2	3626.6	3635.3	3592.8	3592.8	3721.3	3770.3	3937.0	3737.7
40°	3585.2	3598.3	3654.9	3717.0	3801.9	3831.3	3907.6	4106.9	4176.6	4288.7	4057.9
42.5°	3539.5	3546.0	3668.0	3819.4	3944.6	4086.2	4207.1	4459.7	4526.2	4604.6	4321.4
45°	3458.9	3470.9	3605.9	3849.8	4065.5	4346.5	4498.9	4791.9	4868.1	4860.5	4524.0
47.5°	3369.6	3388.1	3538.4	3810.6	4168.9	4571.9	4765.7	5070.7	5114.3	5059.8	4664.5
50°	3270.5	3302.0	3462.1	3771.4	4244.1	4769.0	4964.0	5279.8	5302.7	5191.6	4787.5
52.5°	3157.2	3177.9	3355.4	3696.3	4296.4	4899.7	5121.9	5435.5	5445.3	5354.9	4917.1
55°	3000.4	3018.9	3216.0	3596.1	4304.0	4977.0	5223.2	5602.2	5634.8	5546.6	5034.7
57.5°	2831.6	2854.4	3057.0	3451.2	4234.3	5008.6	5345.1	5816.7	5879.9	5753.5	5129.5
60°	2635.5	2664.9	2869.7	3274.8	4097.1	5057.6	5572.7	6129.3	6207.7	5987.7	5219.9
62.5°	2431.9	2448.2	2636.6	3030.9	3883.6	5082.7	5779.7	6486.5	6561.6	6208.8	5262.4
65°	2145.5	2171.6	2339.3	2737.9	3583.0	4974.9	5876.6	6735.9	6790.3	6388.5	5221.0
67.5°	1841.6	1841.6	1984.3	2387.2	3182.2	4689.5	5837.4	6855.7	6921.0	6514.8	5090.3
69°	1631.4	1647.8	1756.7	2123.7	2888.2	4435.8	5794.9	6965.7	7019.0	6474.5	4940.0
70°	1470.2	1484.4	1594.4	1932.0	2669.3	4235.4	5703.4	6916.7	6955.9	6350.3	4782.1
72.5°	1081.4	1093.4	1169.7	1346.1	2007.1	3417.5	5142.6	6253.4	6277.4	5711.1	4219.0
75°	737.3	743.8	801.6	909.4	1170.7	2389.4	4201.6	5282.0	5352.8	4953.1	3454.5
77.5°	254.8	274.4	309.3	418.2	501.0	938.8	2847.9	4162.4	4268.0	3835.7	2416.6
80°	87.1	86.0	165.5	214.5	263.6	431.3	900.7	1744.7	1843.8	1581.3	870.2
82.5°	65.3	67.5	110.0	118.7	80.6	159.0	350.7	533.6	584.8	510.8	360.5
85°	41.4	40.3	49.0	51.2	37.0	67.5	84.9	86.0	89.3	77.3	78.4
87.5°	22.9	22.9	21.8	18.5	9.8	8.7	7.6	7.6	6.5	6.5	6.5
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°	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5	1791.5
2.5°	1774.1	1789.3	1792.6	1797.0	1807.8	1822.0	1841.6	1841.6	1849.2	1872.1	1879.7
5°	1799.1	1817.6	1841.6	1866.7	1896.1	1927.6	1959.2	1970.1	1985.4	2015.9	2022.4
7.5°	1837.3	1857.9	1899.3	1933.1	1958.1	1989.7	2015.9	2020.2	2039.8	2068.1	2073.6
10°	1876.5	1895.0	1936.4	1953.8	1987.5	2022.4	2035.5	2042.0	2058.3	2080.1	2076.8
12.5°	1929.8	1935.3	1964.7	1976.7	1993.0	2014.8	2021.3	2021.3	2031.1	2066.0	2067.0
15°	1982.1	1982.1	1986.5	1979.9	1982.1	1993.0	1994.1	1979.9	1990.8	2008.2	2001.7
17.5°	2037.6	2022.4	2002.8	1974.5	1949.4	1948.3	1925.5	1891.7	1881.9	1907.0	1905.9
20°	2089.9	2063.8	2016.9	1952.7	1917.8	1871.0	1813.3	1793.7	1792.6	1797.0	1793.7
22.5°	2158.5	2105.2	2020.2	1932.0	1836.2	1762.1	1714.2	1647.8	1645.6	1635.8	1620.5
25°	2240.2	2164.0	2034.4	1909.1	1769.7	1673.9	1558.5	1487.7	1447.4	1456.1	1429.9
27.5°	2345.8	2253.3	2039.8	1859.0	1678.2	1516.0	1376.6	1285.1	1250.2	1235.0	1217.6
30°	2490.7	2348.0	2079.0	1816.6	1565.0	1350.4	1179.5	1046.6	996.5	1009.6	1011.7
32.5°	2722.7	2527.7	2099.7	1732.7	1434.3	1169.7	947.5	803.7	774.3	811.4	821.2
35°	3126.7	2806.5	2148.7	1682.6	1285.1	958.4	704.6	645.8	652.4	683.9	686.1
37.5°	3524.2	3159.4	2300.1	1573.7	1106.5	710.1	546.7	515.1	546.7	587.0	592.5
40°	3803.0	3434.9	2434.1	1465.9	856.0	514.0	417.1	379.0	424.7	489.0	501.0
42.5°	4050.2	3653.8	2528.8	1316.7	585.9	367.0	299.5	309.3	376.8	423.6	434.5
45°	4227.8	3804.1	2594.2	1122.8	373.5	277.7	267.9	299.5	363.7	400.8	404.0
47.5°	4339.9	3892.3	2546.2	884.3	281.0	262.5	263.6	303.8	368.1	409.5	408.4
50°	4441.2	3939.1	2390.5	701.4	266.8	251.6	269.0	315.8	382.3	420.4	418.2
52.5°	4549.0	3984.9	2201.0	550.0	255.9	246.1	275.5	323.5	382.3	406.2	403.0
55°	4641.6	4025.2	2058.3	442.2	248.3	245.0	282.1	335.4	380.1	389.9	383.4
57.5°	4689.5	3956.6	1903.7	371.4	240.7	245.0	286.4	333.3	393.2	424.7	418.2
60°	4663.4	3892.3	1778.4	345.2	229.8	244.0	288.6	357.2	482.5	511.9	509.7
62.5°	4615.5	3821.5	1603.1	310.4	217.8	246.1	287.5	379.0	555.4	545.6	518.4
65°	4517.4	3680.0	1363.5	270.1	205.8	250.5	287.5	426.9	484.6	473.7	461.8
67.5°	4308.3	3373.9	1091.2	232.0	192.8	237.4	283.2	406.2	417.1	388.8	374.6
69°	4074.2	3082.1	863.6	211.3	185.1	230.9	282.1	392.1	410.6	380.1	363.7
70°	3891.2	2854.4	698.1	196.0	177.5	228.7	281.0	382.3	407.3	373.5	356.1
72.5°	3241.1	2306.6	365.9	157.9	151.4	208.0	271.2	373.5	408.4	358.3	333.3
75°	2546.2	1641.2	242.9	120.9	116.5	181.9	248.3	359.4	384.4	322.4	284.2
77.5°	1570.4	718.8	167.7	83.9	84.9	141.6	213.5	321.3	387.7	325.6	276.6
80°	456.3	277.7	106.7	56.6	52.3	83.9	167.7	276.6	368.1	334.3	301.7
82.5°	263.6	180.8	71.9	35.9	31.6	38.1	105.6	214.5	324.5	306.0	312.6
85°	59.9	50.1	26.1	17.4	17.4	21.8	35.9	124.2	224.3	262.5	296.2
87.5°	6.5	6.5	6.5	6.5	6.5	5.4	6.5	33.8	98.0	139.4	162.3
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)