

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: P233724

Luminaire Tested: **VERD-C02H8-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H8-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11336 lumens
Efficiency: N/A
Efficacy: 103.1 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): 110
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

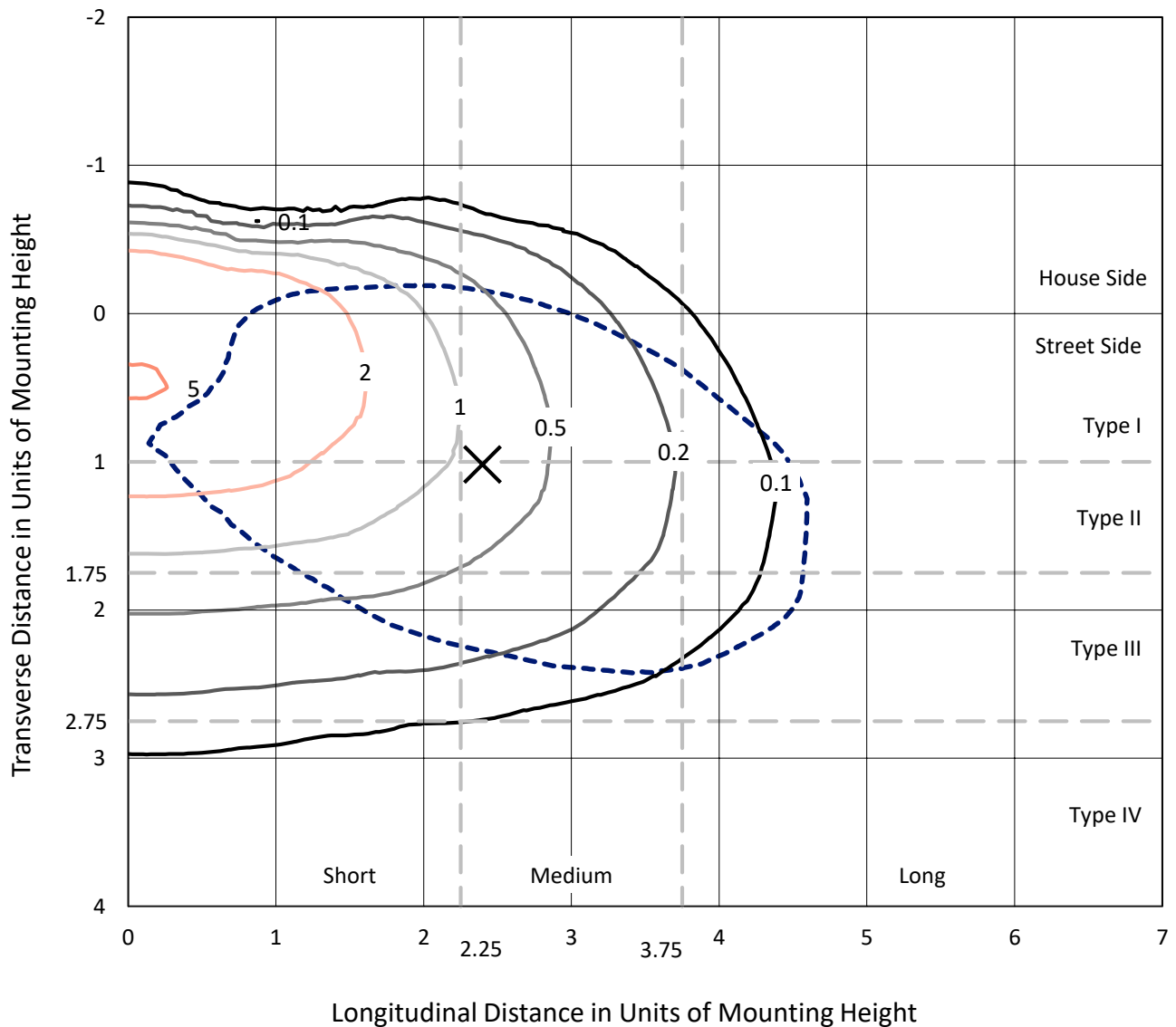


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

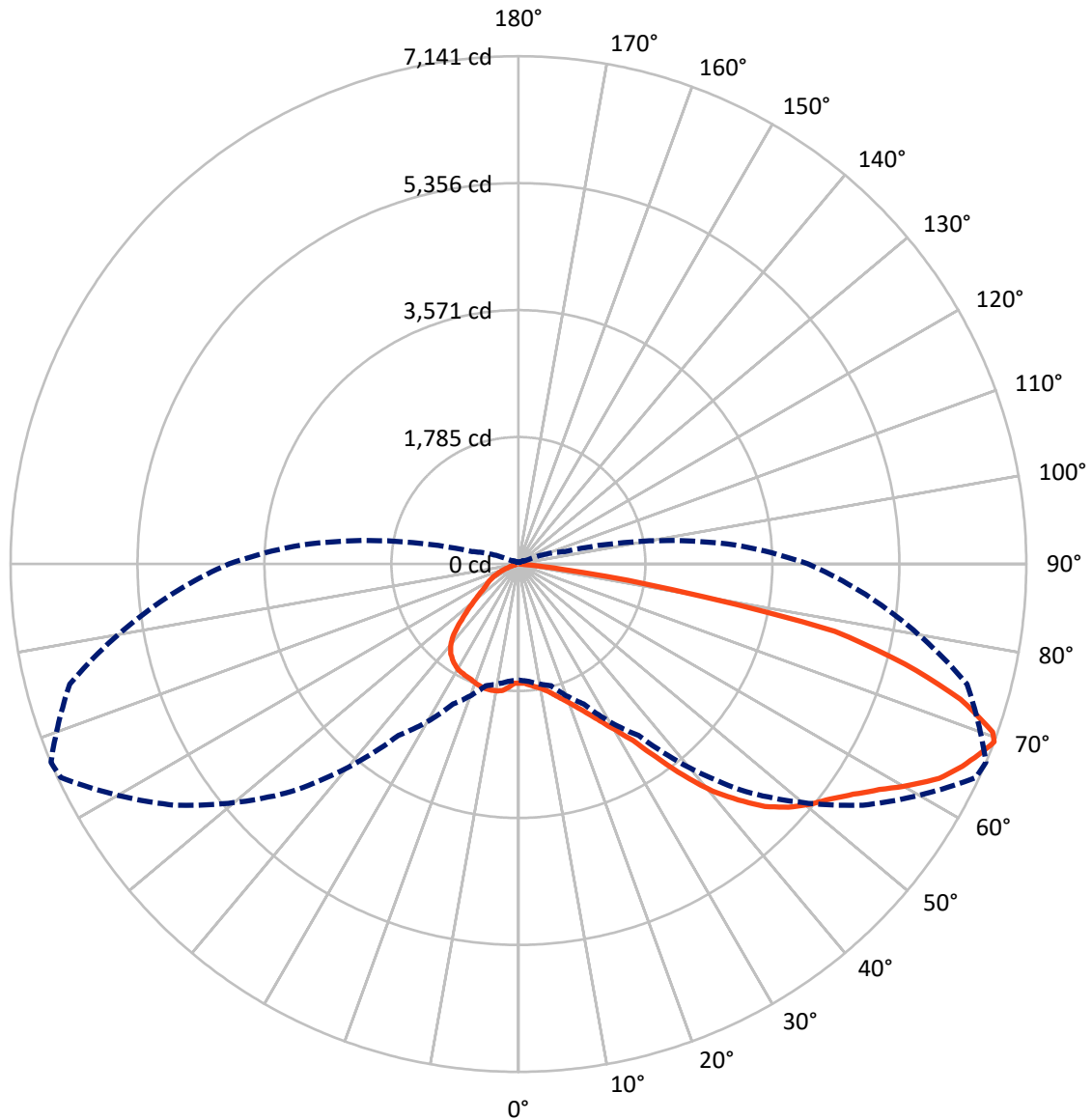


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - Semi-Cutoff

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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	2043.6	0.0	2043.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9292.4	0.0	9292.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	11336.0	0.0	11336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	1.5
10°-20°	532.2	4.7
20°-30°	908.3	8.0
30°-40°	1373.4	12.1
40°-50°	1940.2	17.1
50°-60°	2344.8	20.7
60°-70°	2474.2	21.8
70°-80°	1489.5	13.1
80°-90°	104.1	0.9
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°	11336.0	100.0
0°-180°	11336.0	100.0

Coefficient of Utilization



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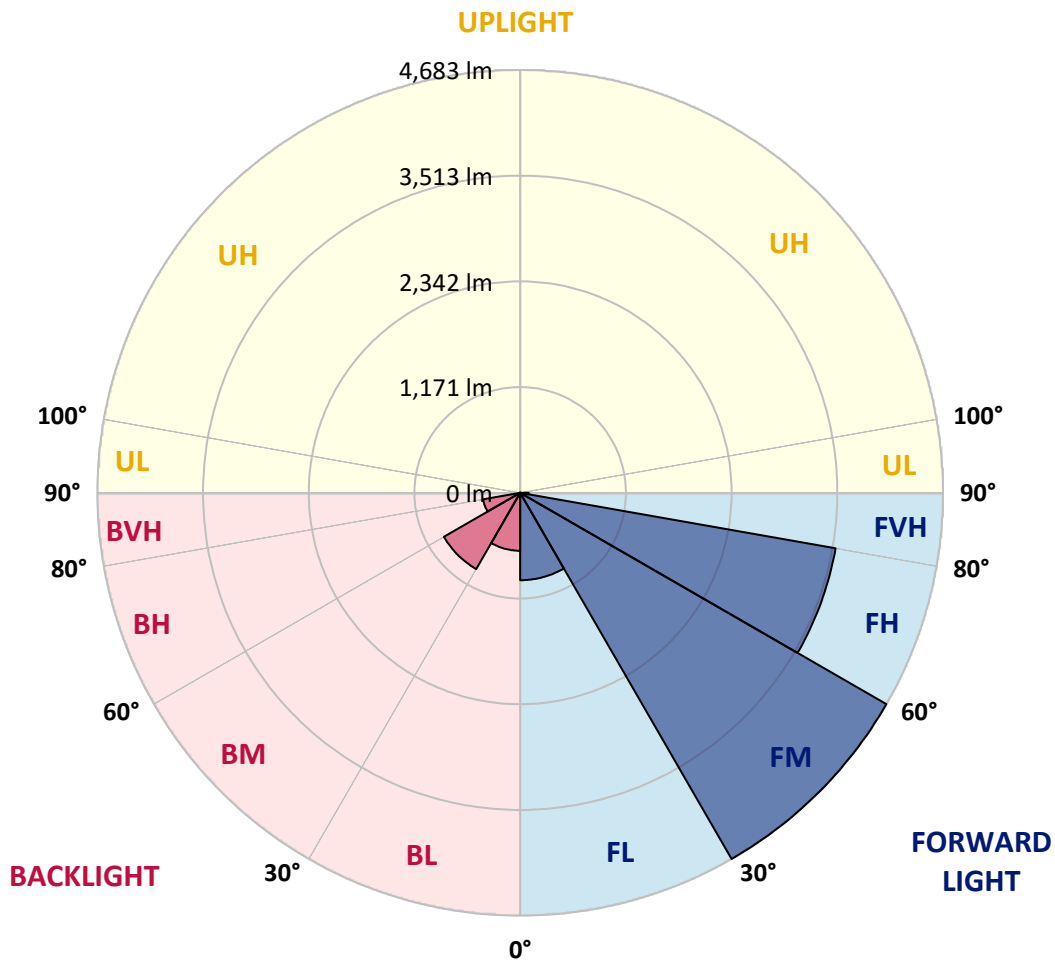
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	968.0	8.5			
FM	(30°-60°)	4683.4	41.3			
FH	(60°-80°)	3547.0	31.3			G2/5000
FVH	(80°-90°)	94.0	0.8			G1/100
BL	(0°-30°)	641.8	5.7	B2/1000		
BM	(30°-60°)	975.0	8.6	B1/1000		
BH	(60°-80°)	416.6	3.7	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			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°	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4
2.5°	1719.8	1717.1	1717.1	1701.7	1687.3	1683.6	1682.7	1678.2	1679.1	1672.8	1666.5
5°	1769.5	1769.5	1767.7	1747.8	1732.4	1722.5	1716.2	1708.0	1708.9	1704.4	1699.0
7.5°	1844.4	1845.3	1841.7	1815.5	1800.2	1775.8	1761.3	1746.0	1745.1	1739.7	1741.5
10°	1936.6	1939.3	1933.8	1900.4	1874.2	1840.8	1810.1	1783.0	1781.2	1774.9	1780.3
12.5°	2040.4	2044.0	2030.5	1996.2	1966.4	1914.0	1876.9	1840.8	1835.4	1834.5	1838.1
15°	2159.7	2161.5	2157.0	2106.4	2070.2	2022.4	1961.8	1915.8	1910.4	1911.3	1906.8
17.5°	2292.4	2297.0	2287.0	2241.9	2194.0	2128.0	2055.8	1998.9	1996.2	1993.5	1973.6
20°	2433.3	2437.9	2431.5	2389.1	2332.2	2249.1	2160.6	2095.5	2094.6	2088.3	2042.2
22.5°	2592.3	2598.6	2595.0	2543.5	2483.0	2392.7	2282.5	2214.8	2213.0	2193.1	2123.5
25°	2764.8	2763.0	2766.6	2711.5	2654.6	2559.8	2423.4	2353.0	2353.0	2328.6	2225.6
27.5°	2931.9	2931.0	2937.4	2898.5	2838.9	2749.5	2585.1	2513.7	2520.1	2484.8	2348.4
30°	3094.5	3094.5	3109.9	3084.6	3040.3	2946.4	2785.6	2710.6	2718.8	2681.7	2503.8
32.5°	3246.3	3253.5	3279.7	3264.3	3230.9	3146.0	3008.7	2940.1	2959.0	2974.4	2792.8
35°	3358.3	3365.5	3426.0	3431.4	3423.3	3366.4	3264.3	3308.6	3331.2	3452.2	3249.9
37.5°	3456.7	3465.8	3538.0	3583.2	3609.4	3574.1	3580.5	3728.6	3771.0	3913.8	3640.1
40°	3529.0	3548.9	3620.2	3682.5	3774.7	3816.2	3919.2	4129.6	4198.3	4255.2	3908.3
42.5°	3479.3	3492.8	3618.4	3785.5	3920.1	4066.4	4233.5	4483.7	4535.2	4517.1	4145.0
45°	3406.1	3422.4	3554.3	3812.6	4035.7	4327.4	4531.6	4802.6	4861.3	4761.0	4349.1
47.5°	3323.9	3346.5	3489.2	3776.5	4132.3	4567.7	4801.7	5076.2	5110.6	4978.7	4520.7
50°	3240.8	3266.1	3427.8	3746.7	4207.3	4768.2	4998.6	5299.3	5309.3	5159.3	4675.2
52.5°	3128.8	3155.0	3332.1	3684.3	4259.7	4900.1	5171.1	5482.7	5489.0	5354.4	4821.5
55°	2987.0	3020.5	3207.4	3592.2	4272.4	4976.9	5280.4	5673.3	5715.7	5565.8	4941.7
57.5°	2819.9	2850.6	3056.6	3459.4	4209.1	5003.1	5433.0	5925.3	5984.0	5779.9	5041.0
60°	2627.5	2662.8	2869.6	3287.8	4081.8	5076.2	5685.9	6281.2	6316.4	6003.9	5128.6
62.5°	2430.6	2455.9	2643.8	3046.6	3883.1	5120.5	5909.9	6615.4	6638.9	6219.7	5181.0
65°	2150.6	2182.2	2365.6	2770.3	3596.7	5035.6	5995.7	6843.9	6858.3	6400.4	5155.7
67.5°	1846.2	1871.5	2005.2	2437.0	3221.0	4766.4	5960.5	6996.5	7042.6	6541.3	5041.0
69°	1630.4	1655.6	1771.3	2170.5	2941.9	4528.0	5910.8	7100.4	7141.1	6531.4	4894.7
70°	1462.4	1487.6	1596.9	1971.8	2723.3	4326.5	5832.3	7048.0	7074.2	6420.3	4752.0
72.5°	1046.0	1071.2	1160.7	1386.5	2063.0	3556.1	5345.4	6466.3	6501.6	5886.5	4247.1
75°	547.4	607.9	768.7	896.0	1222.1	2503.8	4444.0	5561.3	5612.8	5165.7	3492.8
77.5°	70.5	74.1	216.8	364.0	504.9	1055.9	3156.8	4465.6	4546.9	4134.2	2415.3
80°	56.9	57.8	75.0	181.6	251.1	428.1	1120.0	2090.1	2188.6	1837.2	887.9
82.5°	39.7	41.5	58.7	95.7	82.2	156.3	389.3	590.7	608.8	526.6	354.1
85°	22.6	22.6	28.0	37.0	26.2	58.7	80.4	85.8	76.8	75.9	56.9
87.5°	6.3	7.2	8.1	6.3	2.7	2.7	3.6	3.6	3.6	2.7	2.7
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°	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4	1676.4
2.5°	1676.4	1674.6	1675.5	1679.1	1684.6	1704.4	1718.0	1719.8	1726.1	1749.6	1746.9
5°	1705.3	1716.2	1722.5	1741.5	1754.1	1781.2	1797.5	1799.3	1808.3	1832.7	1833.6
7.5°	1746.0	1764.0	1773.1	1794.7	1799.3	1811.9	1816.4	1811.9	1812.8	1834.5	1836.3
10°	1781.2	1803.8	1803.8	1809.2	1801.1	1802.0	1787.5	1774.0	1766.7	1785.7	1790.2
12.5°	1835.4	1841.7	1827.3	1811.0	1786.6	1764.9	1740.6	1718.9	1701.7	1712.6	1706.2
15°	1891.4	1881.5	1846.2	1803.8	1760.4	1723.4	1672.8	1641.2	1611.4	1617.7	1612.3
17.5°	1947.4	1914.9	1859.8	1789.3	1726.1	1655.6	1585.2	1535.5	1481.3	1476.8	1468.7
20°	2001.6	1954.6	1863.4	1759.5	1671.0	1571.6	1462.4	1377.4	1297.1	1276.3	1262.7
22.5°	2066.6	1998.9	1867.9	1730.6	1611.4	1475.9	1310.6	1178.7	1092.0	1063.1	1049.6
25°	2149.7	2060.3	1880.6	1708.9	1550.9	1357.6	1130.9	980.0	886.1	836.4	831.9
27.5°	2248.2	2134.4	1902.2	1680.9	1465.1	1199.5	944.8	787.6	687.4	636.8	620.5
30°	2377.3	2226.5	1922.1	1659.3	1344.0	1027.0	749.7	574.5	455.2	422.7	405.6
32.5°	2622.1	2376.4	1947.4	1608.7	1201.3	838.2	531.1	354.1	272.8	251.1	251.1
35°	3020.5	2706.1	2010.6	1539.1	1029.7	610.6	318.8	198.7	162.6	149.9	143.6
37.5°	3379.9	3038.5	2168.7	1431.6	821.1	361.3	182.5	122.8	111.1	112.9	112.9
40°	3633.8	3266.1	2343.0	1286.2	557.3	193.3	115.6	98.5	100.3	101.2	101.2
42.5°	3851.4	3460.3	2438.8	1113.7	303.5	125.6	99.4	89.4	92.1	91.2	90.3
45°	4033.9	3618.4	2470.4	876.1	147.2	111.1	90.3	82.2	82.2	81.3	81.3
47.5°	4190.2	3758.4	2411.7	651.2	119.2	102.1	85.8	75.9	75.0	79.5	79.5
50°	4332.9	3866.8	2265.3	493.2	115.6	93.9	81.3	70.5	71.4	77.7	77.7
52.5°	4452.1	3930.9	2048.6	369.4	107.5	86.7	75.0	65.9	65.9	72.3	72.3
55°	4540.6	3930.9	1883.3	276.4	103.0	79.5	69.5	63.2	59.6	61.4	62.3
57.5°	4584.9	3856.9	1750.5	224.0	97.6	72.3	64.1	55.1	48.8	50.6	49.7
60°	4573.1	3814.4	1597.8	199.6	91.2	66.8	56.9	47.0	40.6	38.8	38.8
62.5°	4551.5	3766.5	1407.3	173.4	84.9	62.3	47.0	37.9	34.3	32.5	33.4
65°	4469.3	3611.2	1166.1	144.5	78.6	60.5	39.7	33.4	29.8	28.0	28.0
67.5°	4270.5	3331.2	881.6	121.9	73.2	48.8	34.3	28.9	25.3	23.5	23.5
69°	4073.6	3063.8	676.5	111.1	69.5	44.3	31.6	26.2	23.5	20.8	20.8
70°	3903.8	2857.0	530.2	103.9	66.8	42.5	30.7	25.3	22.6	19.9	19.9
72.5°	3323.9	2266.2	269.2	90.3	56.0	37.0	27.1	22.6	19.0	16.3	16.3
75°	2578.8	1561.7	177.9	71.4	43.4	33.4	24.4	19.9	16.3	13.5	12.6
77.5°	1551.8	610.6	127.4	46.1	28.0	26.2	19.9	16.3	13.5	10.8	10.8
80°	428.1	261.9	85.8	30.7	16.3	17.2	14.5	11.7	9.9	8.1	8.1
82.5°	257.4	169.8	56.9	19.9	10.8	10.8	8.1	8.1	6.3	6.3	6.3
85°	44.3	34.3	13.5	8.1	6.3	6.3	4.5	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	3.6	3.6	2.7	1.8	0.9	0.0	0.0	0.0
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)