

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: P233725

Luminaire Tested: **VERD-C02H-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233725
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-C02H-D-U-T3-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12076 lumens
Efficiency: N/A
Efficacy: 100.6 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

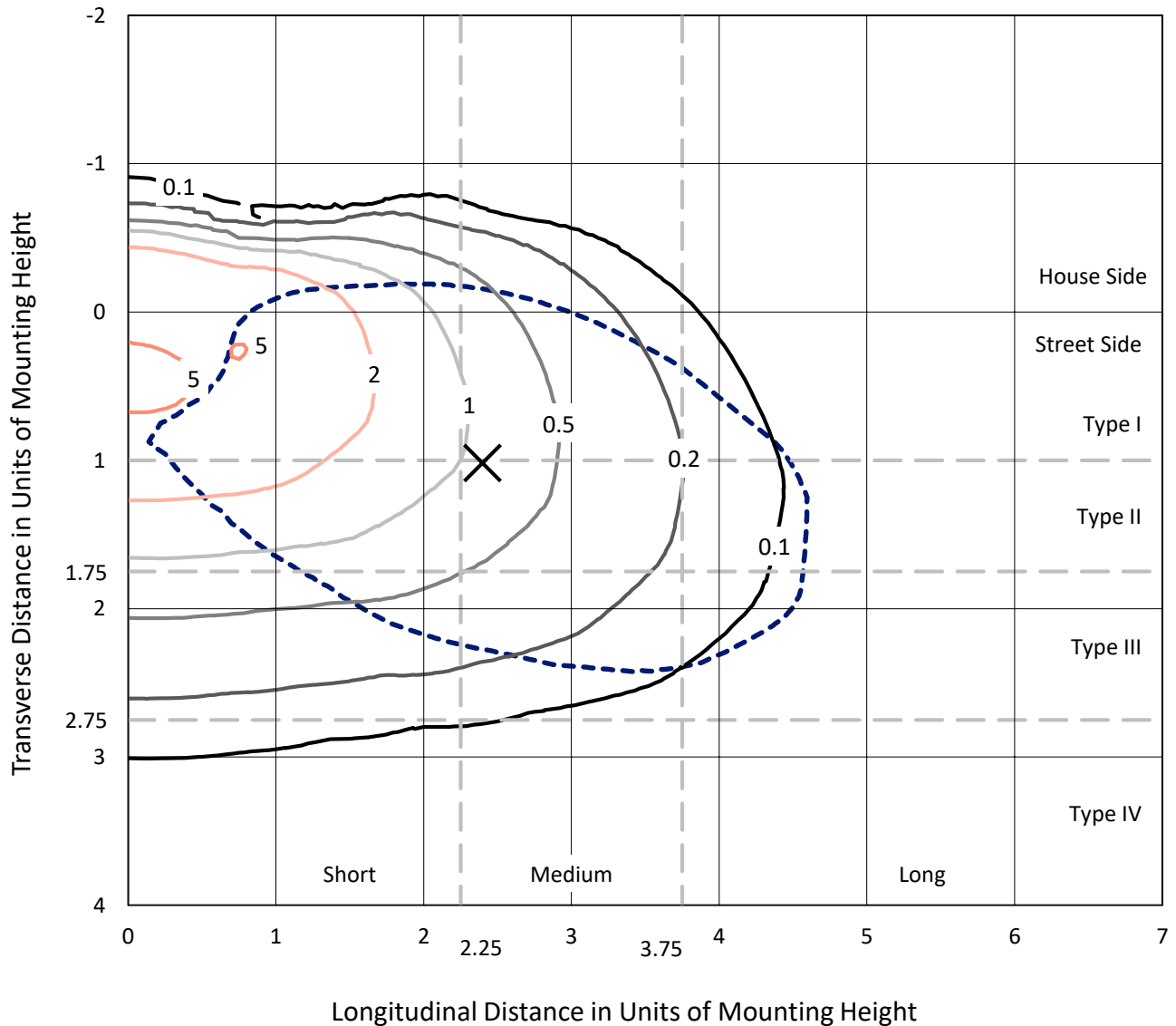
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

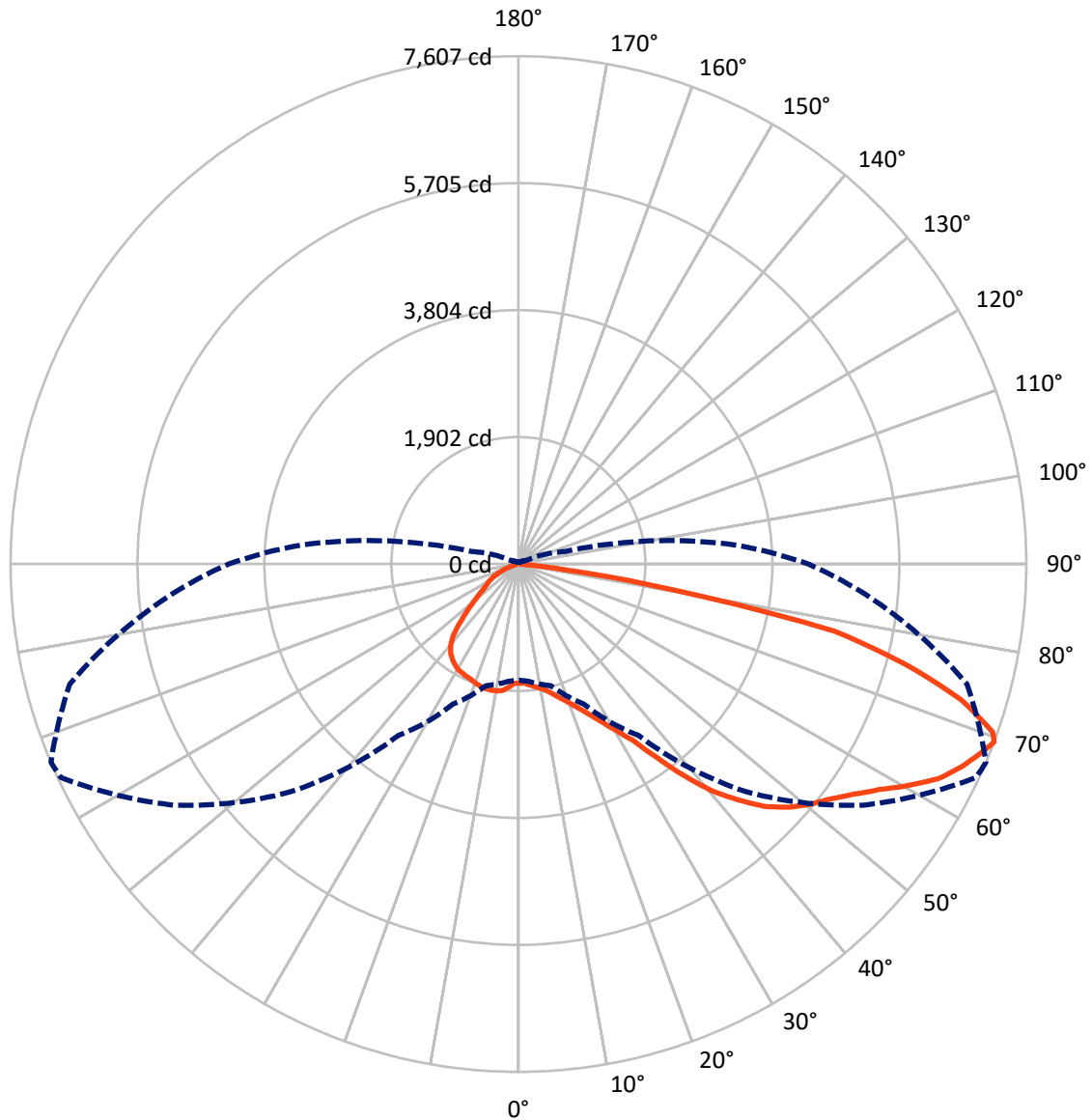
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	2177.0	0.0	2177.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	9899.0	0.0	9899.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	12076.0	0.0	12076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.5
10°-20°	566.9	4.7
20°-30°	967.6	8.0
30°-40°	1463.1	12.1
40°-50°	2066.9	17.1
50°-60°	2497.9	20.7
60°-70°	2635.7	21.8
70°-80°	1586.7	13.1
80°-90°	110.9	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°	12076.0	100.0
0°-180°	12076.0	100.0

Coefficient of Utilization



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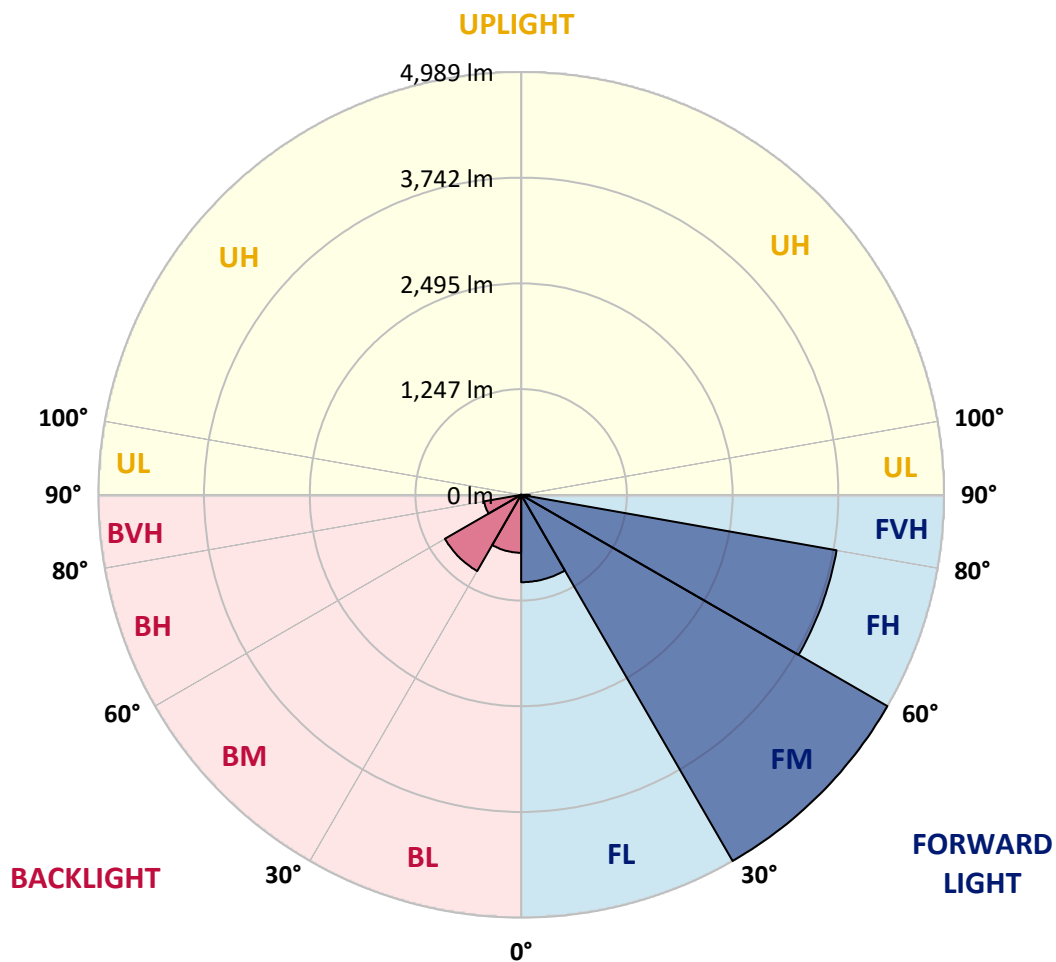
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1031.2	8.5			
FM	(30°-60°)	4989.2	41.3			
FH	(60°-80°)	3778.6	31.3			G2/5000
FVH	(80°-90°)	100.1	0.8			G2/225
BL	(0°-30°)	683.7	5.7	B2/1000		
BM	(30°-60°)	1038.7	8.6	B2/2500		
BH	(60°-80°)	443.8	3.7	B1/500		G1/500
BVH	(80°-90°)	10.8	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°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1832.0	1829.2	1829.2	1812.8	1797.4	1793.6	1792.6	1787.8	1788.7	1782.0	1775.3
5°	1885.0	1885.0	1883.0	1861.9	1845.5	1834.9	1828.2	1819.5	1820.5	1815.7	1809.9
7.5°	1964.8	1965.8	1961.9	1934.0	1917.7	1891.7	1876.3	1859.9	1859.0	1853.2	1855.1
10°	2063.0	2065.9	2060.1	2024.5	1996.6	1961.0	1928.3	1899.4	1897.5	1890.7	1896.5
12.5°	2173.6	2177.5	2163.0	2126.5	2094.7	2038.9	1999.5	1961.0	1955.2	1954.2	1958.1
15°	2300.6	2302.6	2297.8	2243.9	2205.4	2154.4	2089.9	2040.8	2035.1	2036.0	2031.2
17.5°	2442.1	2446.9	2436.3	2388.2	2337.2	2267.0	2190.0	2129.4	2126.5	2123.6	2102.4
20°	2592.2	2597.0	2590.3	2545.0	2484.4	2395.9	2301.6	2232.3	2231.4	2224.6	2175.6
22.5°	2761.5	2768.3	2764.4	2709.6	2645.1	2548.9	2431.5	2359.3	2357.4	2336.2	2262.2
25°	2945.3	2943.4	2947.2	2888.5	2827.9	2726.9	2581.6	2506.6	2506.6	2480.6	2370.9
27.5°	3123.3	3122.4	3129.1	3087.7	3024.2	2929.0	2753.8	2677.8	2684.6	2647.0	2501.7
30°	3296.5	3296.5	3312.9	3285.9	3238.8	3138.7	2967.4	2887.6	2896.2	2856.8	2667.2
32.5°	3458.2	3465.9	3493.8	3477.4	3441.8	3351.4	3205.1	3132.0	3152.2	3168.6	2975.1
35°	3577.5	3585.2	3649.7	3655.4	3646.8	3586.1	3477.4	3524.6	3548.6	3677.6	3462.0
37.5°	3682.4	3692.0	3769.0	3817.1	3845.0	3807.5	3814.2	3972.0	4017.2	4169.2	3877.7
40°	3759.3	3780.5	3856.5	3922.9	4021.1	4065.3	4175.0	4399.2	4472.3	4533.0	4163.5
42.5°	3706.4	3720.9	3854.6	4032.6	4176.0	4331.9	4509.9	4776.4	4831.2	4812.0	4415.6
45°	3628.5	3645.8	3786.3	4061.5	4299.1	4609.9	4827.4	5116.1	5178.6	5071.8	4633.0
47.5°	3540.9	3565.0	3717.0	4023.0	4402.1	4865.9	5115.1	5407.6	5444.2	5303.7	4815.9
50°	3452.4	3479.3	3651.6	3991.2	4482.0	5079.5	5324.9	5645.3	5655.9	5496.1	4980.4
52.5°	3333.1	3361.0	3549.6	3924.8	4537.8	5220.0	5508.6	5840.6	5847.3	5704.0	5136.3
55°	3182.0	3217.6	3416.8	3826.7	4551.2	5301.8	5625.1	6043.6	6088.9	5929.1	5264.2
57.5°	3004.0	3036.7	3256.1	3685.3	4483.9	5329.7	5787.7	6312.1	6374.6	6157.2	5370.1
60°	2799.1	2836.6	3056.9	3502.4	4348.2	5407.6	6057.1	6691.2	6728.7	6395.8	5463.4
62.5°	2589.3	2616.2	2816.4	3245.5	4136.5	5454.8	6295.7	7047.2	7072.2	6625.8	5519.2
65°	2291.0	2324.7	2520.0	2951.1	3831.5	5364.3	6387.1	7290.7	7306.0	6818.2	5492.3
67.5°	1966.8	1993.7	2136.1	2596.0	3431.2	5077.6	6349.6	7453.3	7502.3	6968.3	5370.1
69°	1736.8	1763.7	1886.9	2312.2	3133.9	4823.5	6296.7	7563.9	7607.2	6957.7	5214.2
70°	1557.8	1584.8	1701.2	2100.5	2901.1	4609.0	6213.0	7508.1	7536.0	6839.4	5062.2
72.5°	1114.2	1141.2	1236.4	1477.0	2197.7	3788.2	5694.3	6888.4	6926.0	6270.7	4524.3
75°	583.1	647.6	818.8	954.5	1301.9	2667.2	4734.1	5924.3	5979.2	5502.9	3720.9
77.5°	75.1	78.9	230.9	387.8	537.9	1124.8	3362.9	4757.2	4843.8	4404.0	2572.9
80°	60.6	61.6	79.9	193.4	267.5	456.1	1193.1	2226.5	2331.4	1957.1	945.9
82.5°	42.3	44.3	62.5	102.0	87.6	166.5	414.7	629.3	648.5	561.0	377.2
85°	24.1	24.1	29.8	39.5	27.9	62.5	85.6	91.4	81.8	80.8	60.6
87.5°	6.7	7.7	8.7	6.7	2.9	2.9	3.8	3.8	3.8	2.9	2.9
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°	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9	1785.9
2.5°	1785.9	1783.9	1784.9	1788.7	1794.5	1815.7	1830.1	1832.0	1838.8	1863.8	1860.9
5°	1816.6	1828.2	1834.9	1855.1	1868.6	1897.5	1914.8	1916.7	1926.3	1952.3	1953.3
7.5°	1859.9	1879.2	1888.8	1911.9	1916.7	1930.2	1935.0	1930.2	1931.2	1954.2	1956.2
10°	1897.5	1921.5	1921.5	1927.3	1918.6	1919.6	1904.2	1889.8	1882.1	1902.3	1907.1
12.5°	1955.2	1961.9	1946.5	1929.2	1903.2	1880.2	1854.2	1831.1	1812.8	1824.3	1817.6
15°	2014.9	2004.3	1966.8	1921.5	1875.3	1835.9	1782.0	1748.3	1716.6	1723.3	1717.5
17.5°	2074.5	2039.9	1981.2	1906.1	1838.8	1763.7	1688.7	1635.8	1578.0	1573.2	1564.6
20°	2132.3	2082.2	1985.0	1874.4	1780.1	1674.2	1557.8	1467.4	1381.7	1359.6	1345.2
22.5°	2201.5	2129.4	1989.8	1843.6	1716.6	1572.2	1396.2	1255.7	1163.3	1132.5	1118.1
25°	2290.1	2194.8	2003.3	1820.5	1652.1	1446.2	1204.7	1044.0	943.9	891.0	886.2
27.5°	2394.9	2273.7	2026.4	1790.7	1560.7	1277.8	1006.5	839.0	732.2	678.4	661.0
30°	2532.5	2371.8	2047.6	1767.6	1431.8	1094.0	798.6	612.0	485.0	450.3	432.0
32.5°	2793.3	2531.6	2074.5	1713.7	1279.7	892.9	565.8	377.2	290.6	267.5	267.5
35°	3217.6	2882.8	2141.9	1639.6	1096.9	650.5	339.7	211.7	173.2	159.7	153.0
37.5°	3600.6	3236.9	2310.3	1525.1	874.6	384.9	194.4	130.9	118.4	120.3	120.3
40°	3871.0	3479.3	2496.0	1370.2	593.7	205.9	123.2	104.9	106.8	107.8	107.8
42.5°	4102.9	3686.2	2598.0	1186.4	323.3	133.7	105.8	95.3	98.1	97.2	96.2
45°	4297.2	3854.6	2631.6	933.3	156.8	118.4	96.2	87.6	87.6	86.6	86.6
47.5°	4463.7	4003.7	2569.1	693.8	127.0	108.7	91.4	80.8	79.9	84.7	84.7
50°	4615.7	4119.2	2413.2	525.4	123.2	100.1	86.6	75.1	76.0	82.7	82.7
52.5°	4742.7	4187.5	2182.3	393.5	114.5	92.4	79.9	70.2	70.2	77.0	77.0
55°	4837.0	4187.5	2006.2	294.4	109.7	84.7	74.1	67.4	63.5	65.4	66.4
57.5°	4884.2	4108.6	1864.8	238.6	103.9	77.0	68.3	58.7	52.0	53.9	52.9
60°	4871.7	4063.4	1702.1	212.6	97.2	71.2	60.6	50.0	43.3	41.4	41.4
62.5°	4848.6	4012.4	1499.1	184.7	90.4	66.4	50.0	40.4	36.6	34.6	35.6
65°	4761.0	3846.9	1242.2	154.0	83.7	64.5	42.3	35.6	31.8	29.8	29.8
67.5°	4549.3	3548.6	939.1	129.9	77.9	52.0	36.6	30.8	26.9	25.0	25.0
69°	4339.6	3263.8	720.7	118.4	74.1	47.1	33.7	27.9	25.0	22.1	22.1
70°	4158.7	3043.5	564.8	110.7	71.2	45.2	32.7	26.9	24.1	21.2	21.2
72.5°	3540.9	2414.2	286.7	96.2	59.7	39.5	28.9	24.1	20.2	17.3	17.3
75°	2747.1	1663.7	189.6	76.0	46.2	35.6	26.0	21.2	17.3	14.4	13.5
77.5°	1653.1	650.5	135.7	49.1	29.8	27.9	21.2	17.3	14.4	11.5	11.5
80°	456.1	279.0	91.4	32.7	17.3	18.3	15.4	12.5	10.6	8.7	8.7
82.5°	274.2	180.9	60.6	21.2	11.5	11.5	8.7	8.7	6.7	6.7	6.7
85°	47.1	36.6	14.4	8.7	6.7	6.7	4.8	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	3.8	3.8	2.9	1.9	1.0	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)