

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: P233738

Luminaire Tested: **VERD-C02H-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233738
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-T3-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13339 lumens
Efficiency: N/A
Efficacy: 111.2 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

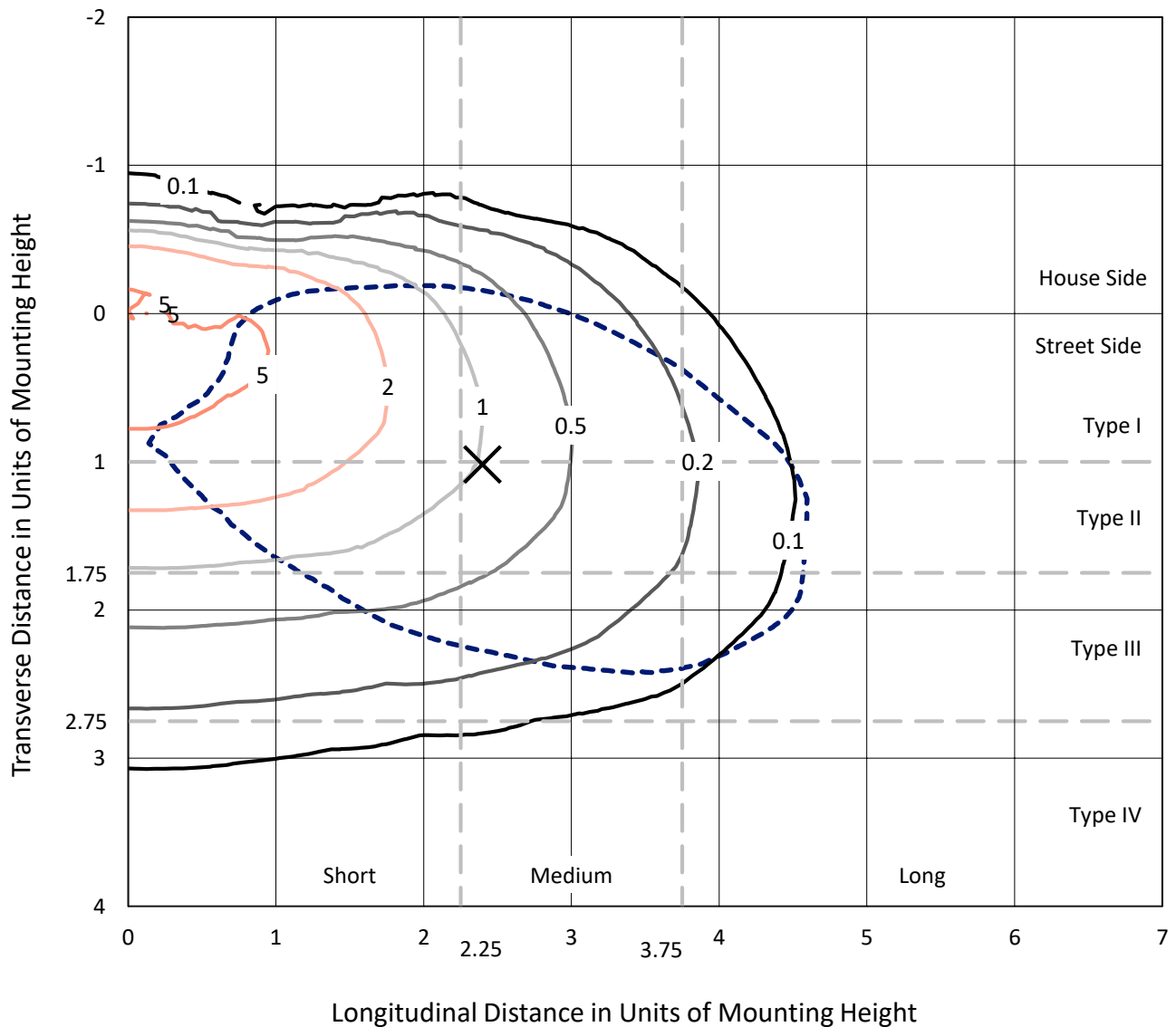


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Iso-Footcandle Lines of Horizontal Illumination

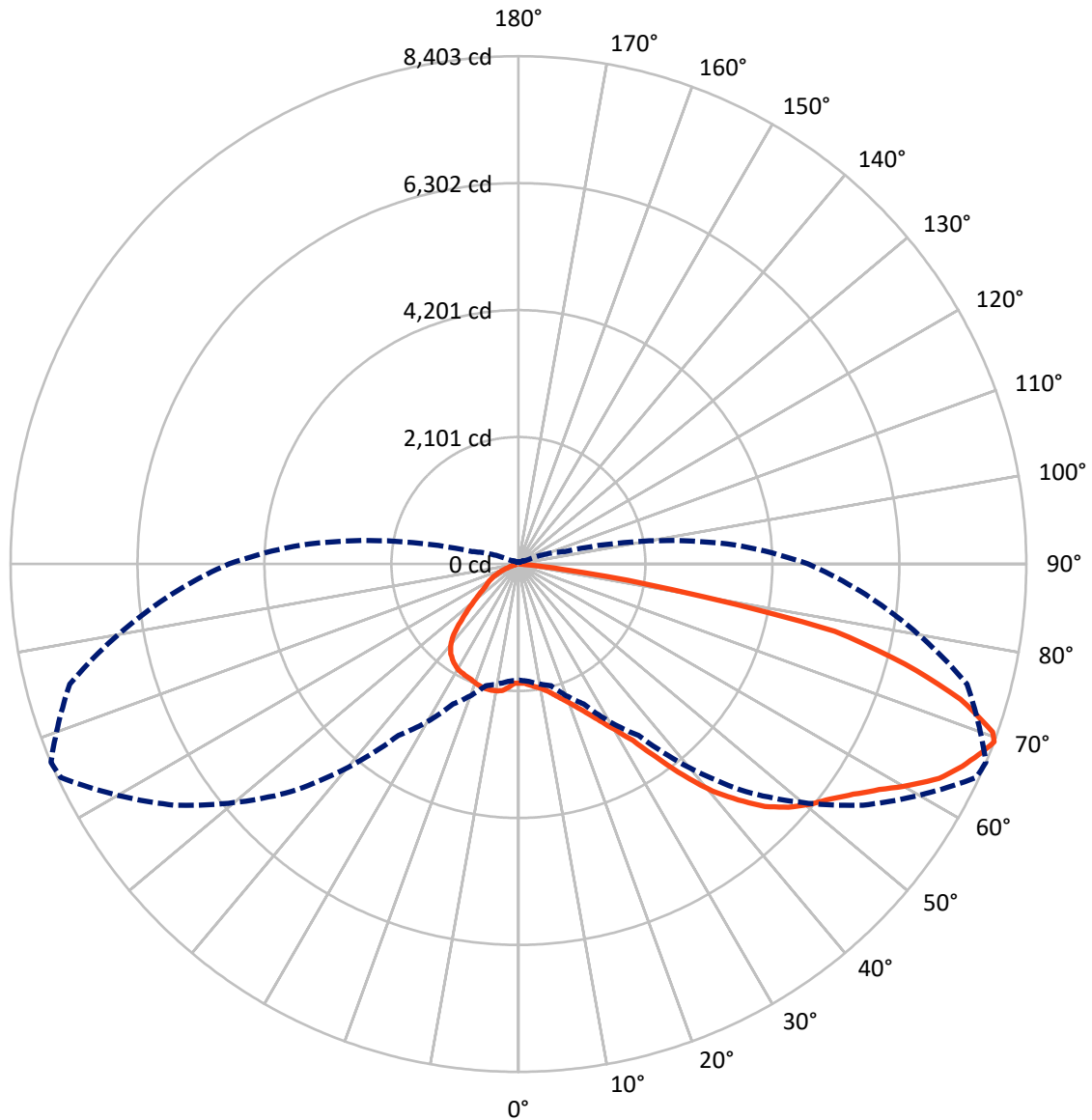
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	2404.6	0.0	2404.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	10934.4	0.0	10934.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	13339.0	0.0	13339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.5
10°-20°	626.2	4.7
20°-30°	1068.8	8.0
30°-40°	1616.1	12.1
40°-50°	2283.1	17.1
50°-60°	2759.1	20.7
60°-70°	2911.4	21.8
70°-80°	1752.6	13.1
80°-90°	122.5	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°	13339.0	100.0
0°-180°	13339.0	100.0

Coefficient of Utilization



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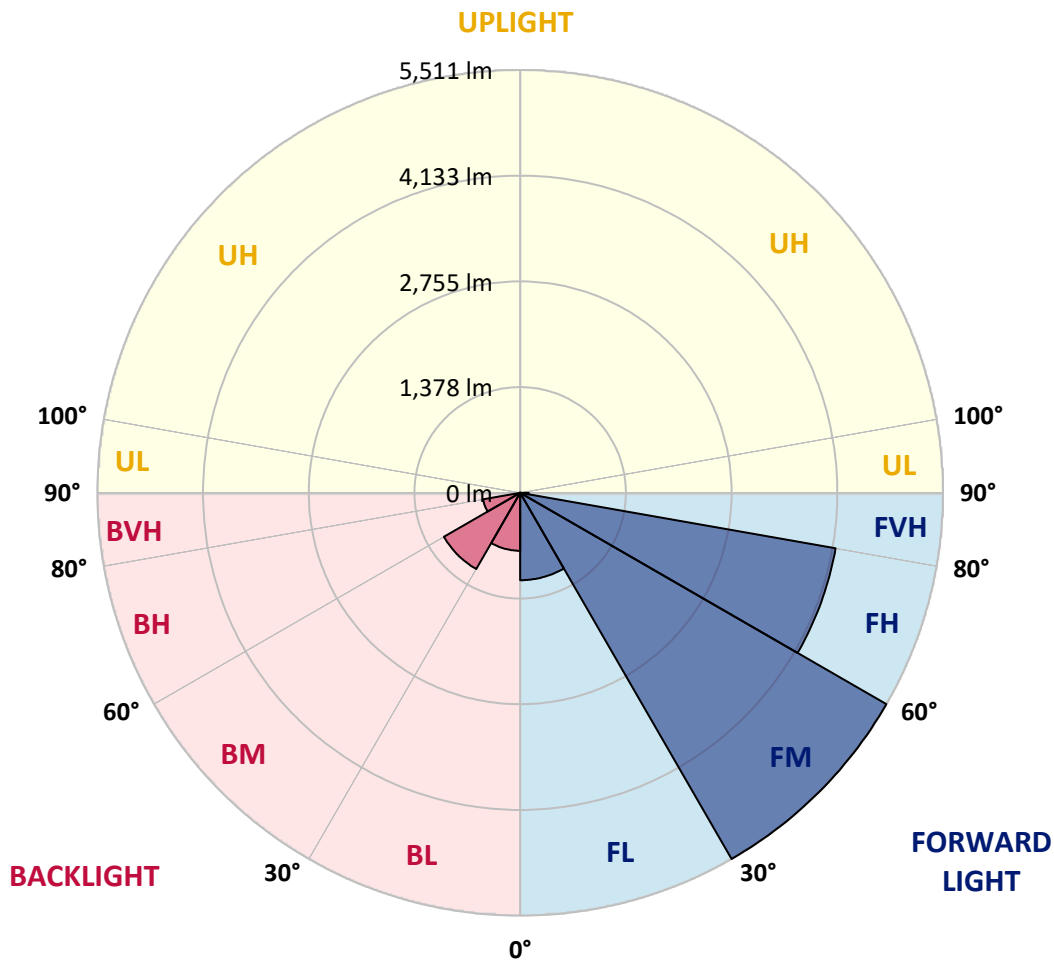
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.0	8.5			
FM	(30°-60°)	5511.0	41.3			
FH	(60°-80°)	4173.8	31.3			G2/5000
FVH	(80°-90°)	110.6	0.8			G2/225
BL	(0°-30°)	755.2	5.7	B2/1000		
BM	(30°-60°)	1147.3	8.6	B2/2500		
BH	(60°-80°)	490.2	3.7	B1/500		G1/500
BVH	(80°-90°)	11.9	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°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	2023.7	2020.5	2020.5	2002.4	1985.4	1981.1	1980.1	1974.8	1975.8	1968.4	1960.9
5°	2082.1	2082.1	2080.0	2056.6	2038.5	2026.8	2019.4	2009.8	2010.9	2005.6	1999.2
7.5°	2170.3	2171.4	2167.1	2136.3	2118.2	2089.5	2072.5	2054.5	2053.4	2047.0	2049.2
10°	2278.7	2281.9	2275.5	2236.2	2205.4	2166.1	2129.9	2098.1	2095.9	2088.5	2094.9
12.5°	2401.0	2405.2	2389.3	2348.9	2313.8	2252.2	2208.6	2166.1	2159.7	2158.6	2162.9
15°	2541.3	2543.4	2538.1	2478.6	2436.0	2379.7	2308.5	2254.3	2247.9	2249.0	2243.7
17.5°	2697.5	2702.8	2691.1	2638.0	2581.6	2504.1	2419.0	2352.1	2348.9	2345.7	2322.3
20°	2863.3	2868.6	2861.2	2811.2	2744.3	2646.5	2542.3	2465.8	2464.7	2457.3	2403.1
22.5°	3050.4	3057.8	3053.5	2993.0	2921.8	2815.5	2685.8	2606.1	2604.0	2580.6	2498.7
25°	3253.4	3251.2	3255.5	3190.7	3123.7	3012.1	2851.6	2768.7	2768.7	2740.0	2618.8
27.5°	3450.0	3448.9	3456.4	3410.7	3340.5	3235.3	3041.9	2957.9	2965.3	2923.9	2763.4
30°	3641.3	3641.3	3659.4	3629.6	3577.5	3467.0	3277.8	3189.6	3199.2	3155.6	2946.2
32.5°	3819.9	3828.4	3859.2	3841.1	3801.8	3701.9	3540.3	3459.6	3481.9	3499.9	3286.3
35°	3951.7	3960.2	4031.4	4037.7	4028.2	3961.2	3841.1	3893.2	3919.8	4062.2	3824.1
37.5°	4067.5	4078.1	4163.2	4216.3	4247.1	4205.7	4213.1	4387.4	4437.4	4605.3	4283.3
40°	4152.5	4175.9	4259.9	4333.2	4441.6	4490.5	4611.7	4859.3	4940.1	5007.1	4598.9
42.5°	4094.1	4110.0	4257.7	4454.4	4612.7	4784.9	4981.5	5276.0	5336.5	5315.3	4877.4
45°	4008.0	4027.1	4182.3	4486.3	4748.8	5092.1	5332.3	5651.1	5720.2	5602.2	5117.6
47.5°	3911.3	3937.8	4105.8	4443.7	4862.5	5374.8	5650.1	5973.2	6013.6	5858.4	5319.5
50°	3813.5	3843.2	4033.5	4408.7	4950.7	5610.7	5881.8	6235.7	6247.4	6071.0	5501.3
52.5°	3681.7	3712.5	3920.8	4335.3	5012.4	5765.9	6084.8	6451.5	6458.9	6300.5	5673.5
55°	3514.8	3554.1	3774.2	4226.9	5027.2	5856.3	6213.4	6675.7	6725.7	6549.2	5814.8
57.5°	3318.2	3354.3	3596.7	4070.7	4952.8	5887.1	6393.0	6972.3	7041.3	6801.1	5931.7
60°	3091.8	3133.3	3376.7	3868.7	4803.0	5973.2	6690.6	7391.0	7432.5	7064.7	6034.8
62.5°	2860.1	2889.9	3110.9	3585.0	4569.2	6025.3	6954.2	7784.3	7811.9	7318.7	6096.5
65°	2530.6	2567.8	2783.6	3259.7	4232.2	5925.4	7055.2	8053.2	8070.2	7531.3	6066.7
67.5°	2172.5	2202.2	2359.5	2867.6	3790.1	5608.6	7013.7	8232.8	8287.0	7697.1	5931.7
69°	1918.4	1948.2	2084.2	2554.0	3461.7	5328.0	6955.2	8355.0	8402.8	7685.4	5759.5
70°	1720.7	1750.5	1879.1	2320.2	3204.5	5091.0	6862.8	8293.4	8324.2	7554.7	5591.6
72.5°	1230.8	1260.5	1365.8	1631.5	2427.5	4184.4	6289.9	7608.9	7650.3	6926.5	4997.5
75°	644.1	715.3	904.5	1054.3	1438.0	2946.2	5229.2	6543.9	6604.5	6078.4	4110.0
77.5°	82.9	87.2	255.1	428.3	594.1	1242.5	3714.6	5254.7	5350.4	4864.6	2842.0
80°	67.0	68.0	88.2	213.6	295.5	503.8	1317.9	2459.4	2575.3	2161.8	1044.8
82.5°	46.8	48.9	69.1	112.7	96.7	183.9	458.1	695.1	716.4	619.6	416.6
85°	26.6	26.6	32.9	43.6	30.8	69.1	94.6	101.0	90.3	89.3	67.0
87.5°	7.4	8.5	9.6	7.4	3.2	3.2	4.3	4.3	4.3	3.2	3.2
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°	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6	1972.6
2.5°	1972.6	1970.5	1971.6	1975.8	1982.2	2005.6	2021.5	2023.7	2031.1	2058.7	2055.5
5°	2006.6	2019.4	2026.8	2049.2	2064.0	2095.9	2115.1	2117.2	2127.8	2156.5	2157.6
7.5°	2054.5	2075.7	2086.4	2111.9	2117.2	2132.1	2137.4	2132.1	2133.1	2158.6	2160.8
10°	2095.9	2122.5	2122.5	2128.9	2119.3	2120.4	2103.4	2087.4	2078.9	2101.2	2106.6
12.5°	2159.7	2167.1	2150.1	2131.0	2102.3	2076.8	2048.1	2022.6	2002.4	2015.2	2007.7
15°	2225.6	2213.9	2172.5	2122.5	2071.5	2027.9	1968.4	1931.2	1896.1	1903.6	1897.2
17.5°	2291.5	2253.2	2188.4	2105.5	2031.1	1948.2	1865.3	1806.8	1743.1	1737.7	1728.2
20°	2355.3	2300.0	2192.6	2070.4	1966.3	1849.3	1720.7	1620.8	1526.2	1501.8	1485.9
22.5°	2431.8	2352.1	2198.0	2036.4	1896.1	1736.7	1542.2	1387.0	1285.0	1251.0	1235.0
25°	2529.6	2424.3	2212.8	2010.9	1824.9	1597.5	1330.7	1153.2	1042.6	984.2	978.9
27.5°	2645.4	2511.5	2238.3	1978.0	1723.9	1411.5	1111.7	926.8	808.8	749.3	730.2
30°	2797.4	2619.9	2261.7	1952.4	1581.5	1208.5	882.2	676.0	535.7	497.4	477.2
32.5°	3085.4	2796.3	2291.5	1892.9	1413.6	986.3	625.0	416.6	321.0	295.5	295.5
35°	3554.1	3184.3	2365.9	1811.1	1211.6	718.5	375.2	233.8	191.3	176.4	169.0
37.5°	3977.2	3575.4	2551.9	1684.6	966.1	425.1	214.7	144.5	130.7	132.9	132.9
40°	4275.8	3843.2	2757.0	1513.5	655.8	227.4	136.0	115.8	118.0	119.0	119.0
42.5°	4532.0	4071.8	2869.7	1310.5	357.1	147.7	116.9	105.2	108.4	107.3	106.3
45°	4746.7	4257.7	2906.9	1031.0	173.2	130.7	106.3	96.7	96.7	95.7	95.7
47.5°	4930.5	4422.5	2837.8	766.3	140.3	120.1	101.0	89.3	88.2	93.5	93.5
50°	5098.5	4550.0	2665.6	580.3	136.0	110.5	95.7	82.9	84.0	91.4	91.4
52.5°	5238.8	4625.5	2410.5	434.7	126.5	102.0	88.2	77.6	77.6	85.0	85.0
55°	5342.9	4625.5	2216.0	325.2	121.2	93.5	81.8	74.4	70.1	72.3	73.3
57.5°	5395.0	4538.3	2059.8	263.6	114.8	85.0	75.5	64.8	57.4	59.5	58.5
60°	5381.2	4488.4	1880.2	234.9	107.3	78.7	67.0	55.3	47.8	45.7	45.7
62.5°	5355.7	4432.1	1655.9	204.1	99.9	73.3	55.3	44.6	40.4	38.3	39.3
65°	5258.9	4249.2	1372.1	170.1	92.5	71.2	46.8	39.3	35.1	32.9	32.9
67.5°	5025.1	3919.8	1037.3	143.5	86.1	57.4	40.4	34.0	29.8	27.6	27.6
69°	4793.4	3605.2	796.1	130.7	81.8	52.1	37.2	30.8	27.6	24.4	24.4
70°	4593.6	3361.8	623.9	122.2	78.7	50.0	36.1	29.8	26.6	23.4	23.4
72.5°	3911.3	2666.7	316.7	106.3	65.9	43.6	31.9	26.6	22.3	19.1	19.1
75°	3034.4	1837.7	209.4	84.0	51.0	39.3	28.7	23.4	19.1	15.9	14.9
77.5°	1826.0	718.5	149.9	54.2	32.9	30.8	23.4	19.1	15.9	12.8	12.8
80°	503.8	308.2	101.0	36.1	19.1	20.2	17.0	13.8	11.7	9.6	9.6
82.5°	302.9	199.8	67.0	23.4	12.8	12.8	9.6	9.6	7.4	7.4	7.4
85°	52.1	40.4	15.9	9.6	7.4	7.4	5.3	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	4.3	4.3	3.2	2.1	1.1	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)