

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: P233914

Luminaire Tested: **VERD-G-C029-D-U-T2-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-C029-D-U-T2-8027-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12394 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

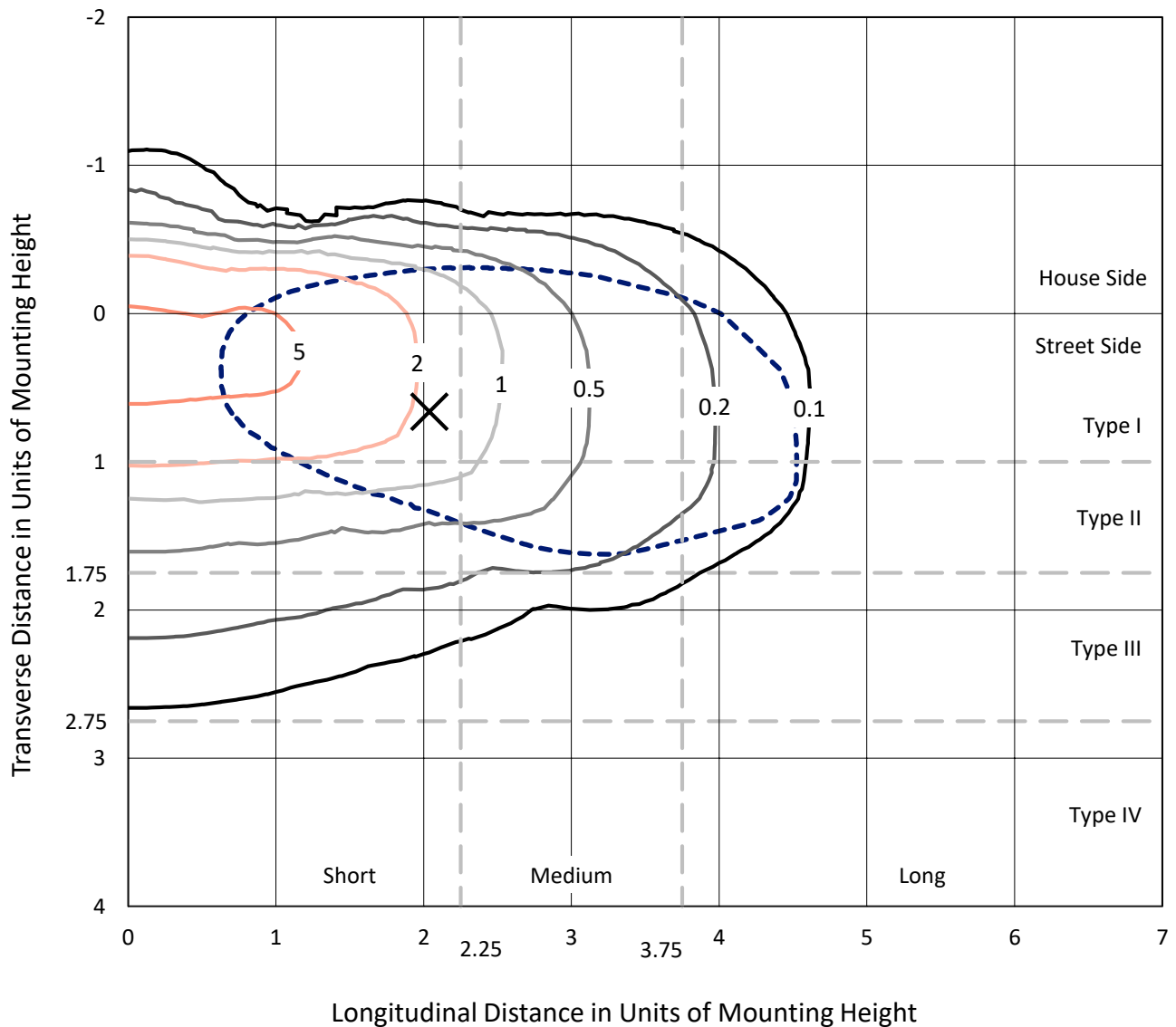
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

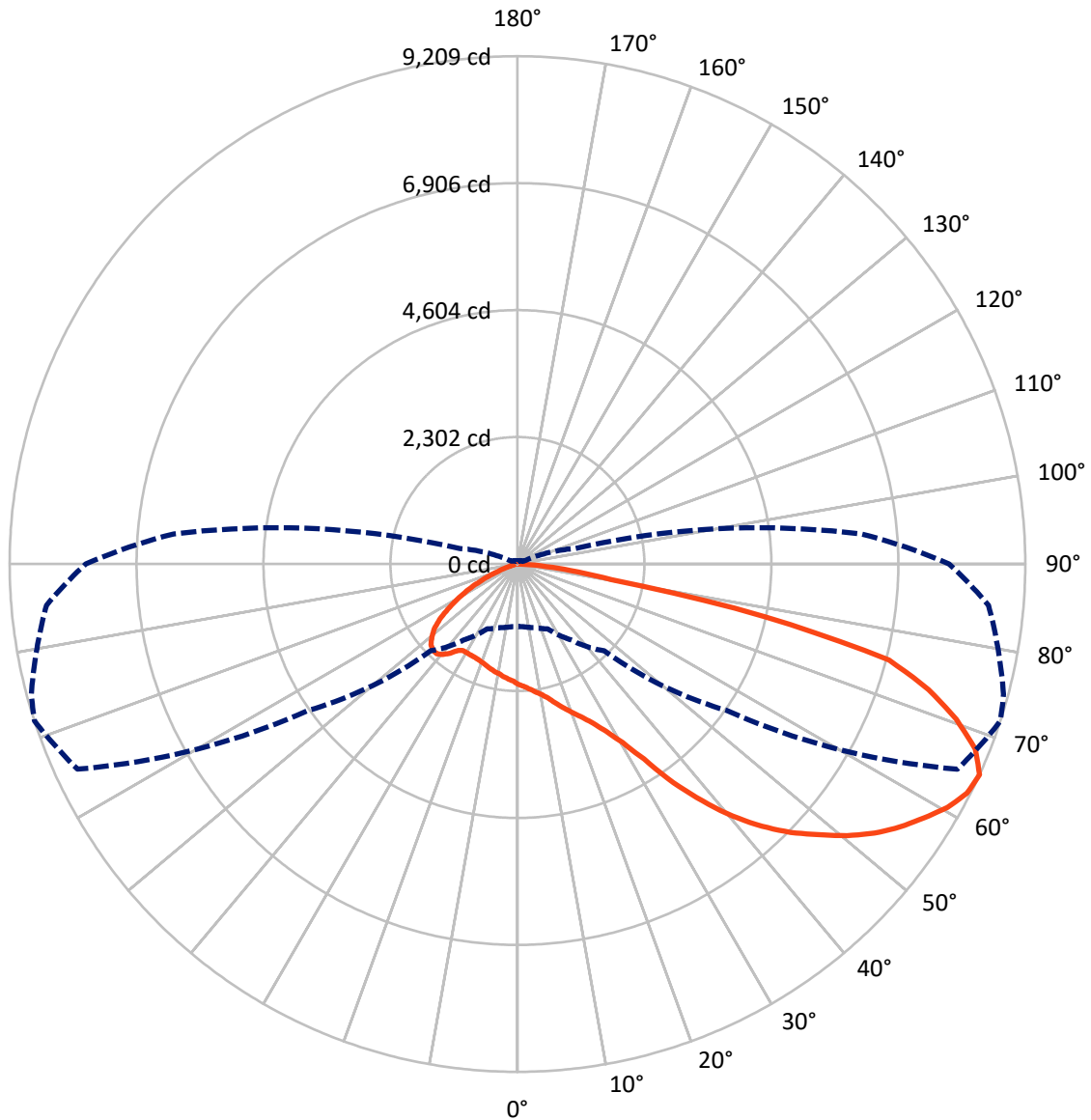
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2575.5	0.0	2575.5
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	9818.5	0.0	9818.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	12394.0	0.0	12394.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.4	1.7
10°-20°	635.5	5.1
20°-30°	1061.9	8.6
30°-40°	1570.9	12.7
40°-50°	2171.7	17.5
50°-60°	2541.2	20.5
60°-70°	2525.9	20.4
70°-80°	1512.8	12.2
80°-90°	164.7	1.3
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°	12394.0	100.0
0°-180°	12394.0	100.0



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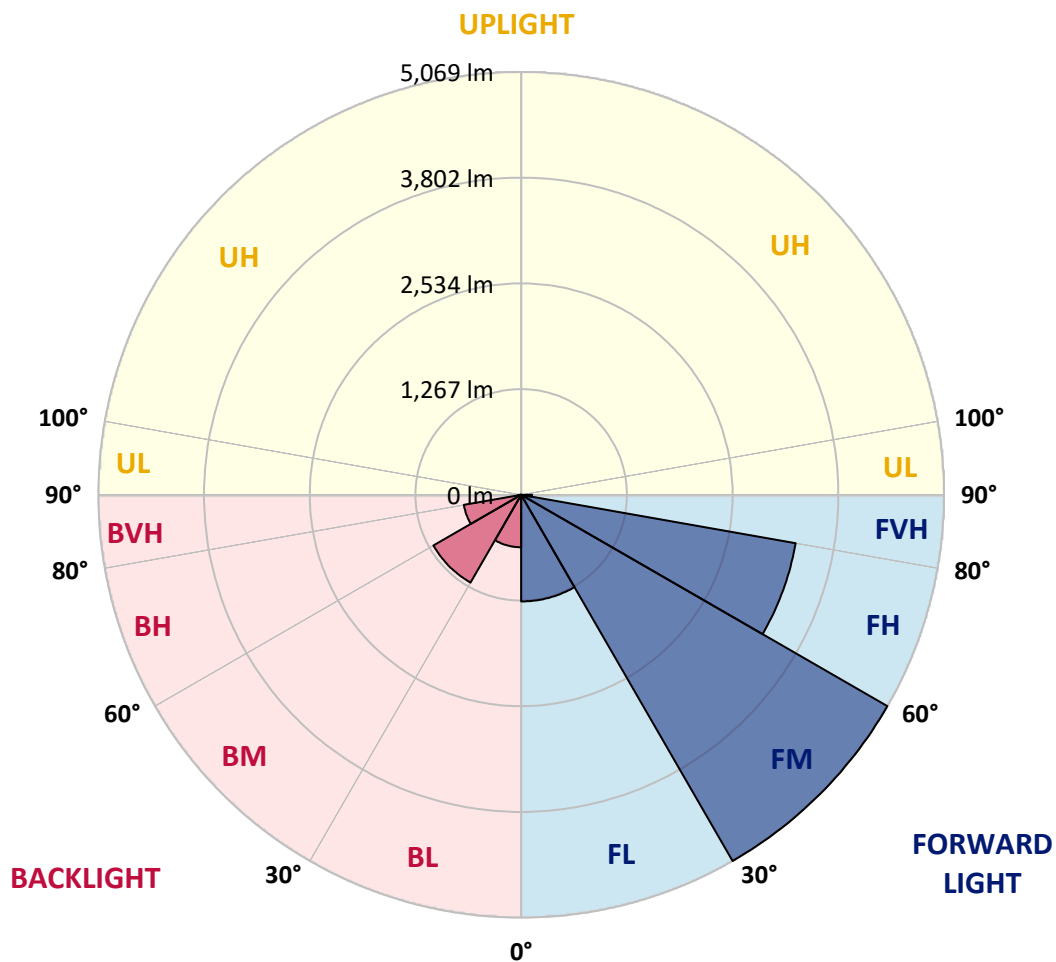
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.1	10.3			
FM	(30°-60°)	5068.8	40.9			
FH	(60°-80°)	3341.4	27.0			G2/5000
FVH	(80°-90°)	130.2	1.1			G2/225
BL	(0°-30°)	628.7	5.1	B2/1000		
BM	(30°-60°)	1215.0	9.8	B2/2500		
BH	(60°-80°)	697.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	34.5	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2368.4	2370.4	2371.4	2334.0	2313.8	2290.5	2268.3	2244.0	2218.7	2209.6	2176.2
5°	2514.0	2516.0	2510.0	2475.6	2438.2	2403.8	2361.3	2317.8	2275.3	2263.2	2206.6
7.5°	2654.6	2653.6	2648.5	2605.0	2558.5	2513.0	2453.3	2394.7	2339.0	2319.8	2235.9
10°	2770.9	2772.9	2775.9	2729.4	2683.9	2629.3	2556.5	2469.5	2405.8	2375.5	2266.2
12.5°	2898.3	2892.2	2900.3	2854.8	2792.1	2742.5	2676.8	2574.7	2498.8	2460.4	2324.9
15°	3043.9	3043.9	3032.8	2995.4	2931.6	2871.0	2805.2	2711.2	2620.2	2561.5	2403.8
17.5°	3144.0	3137.9	3134.9	3102.6	3047.9	2995.4	2944.8	2848.7	2749.6	2677.8	2477.6
20°	3186.5	3188.5	3202.7	3179.4	3150.1	3118.7	3063.1	2988.3	2879.1	2802.2	2556.5
22.5°	3268.4	3270.4	3287.6	3271.4	3263.3	3255.3	3203.7	3137.9	3021.7	2947.8	2655.6
25°	3273.5	3275.5	3322.0	3348.3	3389.7	3409.0	3373.6	3316.9	3198.6	3126.8	2803.2
27.5°	3288.6	3294.7	3342.2	3415.0	3524.2	3562.7	3542.4	3540.4	3440.3	3364.5	2995.4
30°	3275.5	3281.5	3350.3	3451.4	3603.1	3716.4	3739.6	3799.3	3758.9	3702.2	3262.3
32.5°	3182.4	3204.7	3286.6	3447.4	3670.9	3876.2	3951.0	4155.3	4216.0	4222.0	3798.3
35°	3013.6	3025.7	3174.4	3400.9	3716.4	4026.8	4233.1	4610.3	4867.2	4856.1	4391.9
37.5°	2885.1	2889.2	3041.9	3322.0	3741.7	4188.6	4554.7	5158.4	5453.7	5466.9	4927.9
40°	2720.3	2749.6	2896.3	3226.9	3727.5	4325.2	4874.3	5669.1	6013.0	5998.8	5398.1
42.5°	2566.6	2583.8	2729.4	3078.3	3675.9	4429.3	5187.8	6163.6	6501.4	6454.9	5849.1
45°	2406.8	2436.1	2569.6	2886.1	3573.8	4488.0	5471.9	6632.9	6942.3	6884.7	6246.6
47.5°	2247.0	2268.3	2409.8	2710.2	3381.7	4486.0	5751.0	7072.8	7333.7	7293.2	6622.8
50°	1710.0	1756.6	2128.7	2526.1	3111.7	4401.0	5976.6	7490.4	7744.2	7681.5	6989.8
52.5°	1567.5	1582.6	1686.8	2312.8	2823.4	4198.8	6152.5	7882.8	8106.3	8034.5	7335.7
55°	1481.5	1499.7	1542.2	1879.9	2586.8	3866.1	6225.3	8248.9	8415.7	8342.9	7644.1
57.5°	1367.2	1385.4	1469.4	1619.0	2340.1	3359.4	6118.1	8573.5	8689.8	8609.9	7930.3
60°	1288.3	1296.4	1377.3	1494.6	2070.1	2847.7	5760.1	8837.4	8958.8	8863.7	8213.5
62.5°	1215.5	1224.6	1282.3	1398.6	1846.6	2472.5	5202.9	8902.1	9149.9	9076.1	8472.4
65°	1131.6	1139.7	1192.3	1295.4	1673.6	2227.8	4628.5	8803.0	9208.5	9124.6	8572.5
67.5°	1020.4	1031.5	1072.9	1166.0	1447.1	1950.7	3774.0	8620.0	8951.7	8864.7	8367.2
70°	882.8	887.9	937.4	1021.4	1222.6	1692.9	2960.0	7968.7	8443.0	8347.0	7788.7
72.5°	712.9	722.0	775.6	863.6	1004.2	1394.5	2114.5	6885.7	7798.9	7762.4	6946.4
75°	476.3	511.7	639.1	728.1	830.2	1089.1	1419.8	4832.8	6962.5	6990.9	5934.1
77.5°	91.0	94.0	268.0	398.4	485.4	665.4	878.8	2374.4	4589.1	5085.6	4474.8
80°	59.7	64.7	114.3	279.1	321.6	329.7	451.0	1040.6	1729.3	2187.4	2580.7
82.5°	31.3	37.4	68.8	161.8	147.6	81.9	147.6	537.0	958.7	1101.3	1301.5
85°	13.1	15.2	33.4	55.6	41.5	34.4	34.4	214.4	424.7	491.5	510.7
87.5°	2.0	2.0	7.1	10.1	6.1	4.0	3.0	1.0	1.0	1.0	1.0
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°	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3	2184.3
2.5°	2176.2	2158.0	2132.8	2103.4	2082.2	2071.1	2062.0	2037.7	2029.6	2045.8	2041.7
5°	2185.3	2164.1	2106.5	2058.9	2011.4	1982.1	1949.7	1907.2	1889.0	1899.1	1896.1
7.5°	2191.4	2165.1	2079.2	2005.3	1925.4	1869.8	1827.4	1771.7	1744.4	1754.5	1742.4
10°	2200.5	2161.1	2046.8	1948.7	1844.5	1763.6	1700.9	1636.2	1607.9	1616.0	1605.9
12.5°	2238.9	2175.2	2031.6	1900.2	1772.7	1671.6	1592.7	1524.0	1483.5	1491.6	1483.5
15°	2301.6	2203.5	2009.4	1838.5	1696.9	1581.6	1490.6	1411.7	1365.2	1376.3	1366.2
17.5°	2367.4	2237.9	1989.2	1769.7	1616.0	1487.6	1392.5	1325.8	1250.9	1258.0	1242.8
20°	2424.0	2270.3	1978.0	1705.0	1540.2	1387.5	1273.2	1227.7	1124.5	1098.2	1081.0
22.5°	2502.9	2317.8	1968.9	1652.4	1446.1	1287.3	1151.8	1066.9	955.6	900.0	895.0
25°	2615.1	2388.6	1967.9	1610.9	1361.2	1182.2	993.1	850.5	752.4	686.6	677.5
27.5°	2757.7	2482.6	1979.0	1569.5	1276.2	1049.7	797.9	640.1	552.1	501.6	492.5
30°	2963.0	2606.0	1993.2	1521.9	1181.2	877.8	594.6	471.2	398.4	362.0	355.0
32.5°	3402.9	2922.5	2014.4	1472.4	1066.9	661.4	431.8	341.8	286.2	263.9	275.1
35°	3932.8	3352.3	2109.5	1408.7	917.2	471.2	311.5	243.7	205.3	210.3	216.4
37.5°	4396.0	3762.9	2322.9	1326.8	717.0	345.9	214.4	182.0	182.0	198.2	212.4
40°	4832.8	4133.0	2514.0	1215.5	502.6	238.7	165.8	168.9	165.8	176.0	172.9
42.5°	5245.4	4483.9	2663.7	1083.1	328.7	164.8	150.7	156.7	151.7	153.7	144.6
45°	5635.8	4847.0	2746.6	887.9	218.4	143.6	138.5	148.7	147.6	145.6	136.5
47.5°	5996.8	5166.5	2788.0	640.1	150.7	129.4	130.5	137.5	140.6	138.5	133.5
50°	6350.7	5485.1	2750.6	383.3	135.5	118.3	125.4	125.4	131.5	120.3	116.3
52.5°	6689.5	5804.6	2632.3	232.6	124.4	110.2	116.3	114.3	117.3	106.2	104.2
55°	7008.0	6042.3	2398.7	183.0	117.3	105.2	106.2	108.2	103.1	91.0	95.1
57.5°	7344.8	6244.5	2073.1	165.8	114.3	98.1	100.1	99.1	91.0	79.9	79.9
60°	7621.9	6391.2	1746.4	150.7	112.3	96.1	89.0	87.0	74.8	68.8	67.8
62.5°	7813.0	6432.6	1427.9	134.5	106.2	89.0	79.9	73.8	62.7	56.6	54.6
65°	7828.2	6255.7	1087.1	121.4	100.1	82.9	73.8	60.7	49.6	44.5	42.5
67.5°	7517.7	5764.2	766.5	111.2	90.0	76.9	64.7	48.5	39.4	35.4	34.4
70°	6868.5	5153.4	469.2	97.1	81.9	71.8	66.7	39.4	32.4	27.3	27.3
72.5°	6027.1	4463.7	275.1	82.9	68.8	57.6	44.5	33.4	27.3	21.2	21.2
75°	5165.5	3543.5	168.9	62.7	50.6	45.5	34.4	28.3	22.2	16.2	16.2
77.5°	3719.4	2616.1	131.5	40.5	31.3	32.4	25.3	22.2	18.2	13.1	13.1
80°	2282.4	1592.7	94.0	27.3	18.2	18.2	18.2	17.2	13.1	11.1	10.1
82.5°	1156.9	728.1	46.5	16.2	11.1	11.1	11.1	12.1	10.1	8.1	8.1
85°	406.5	204.3	14.2	8.1	7.1	7.1	6.1	6.1	5.1	4.0	4.0
87.5°	1.0	2.0	2.0	3.0	4.0	4.0	3.0	2.0	1.0	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)