

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: P233834

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233834  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
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  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13676 lumens  
Efficiency: N/A  
Efficacy: 113.0 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

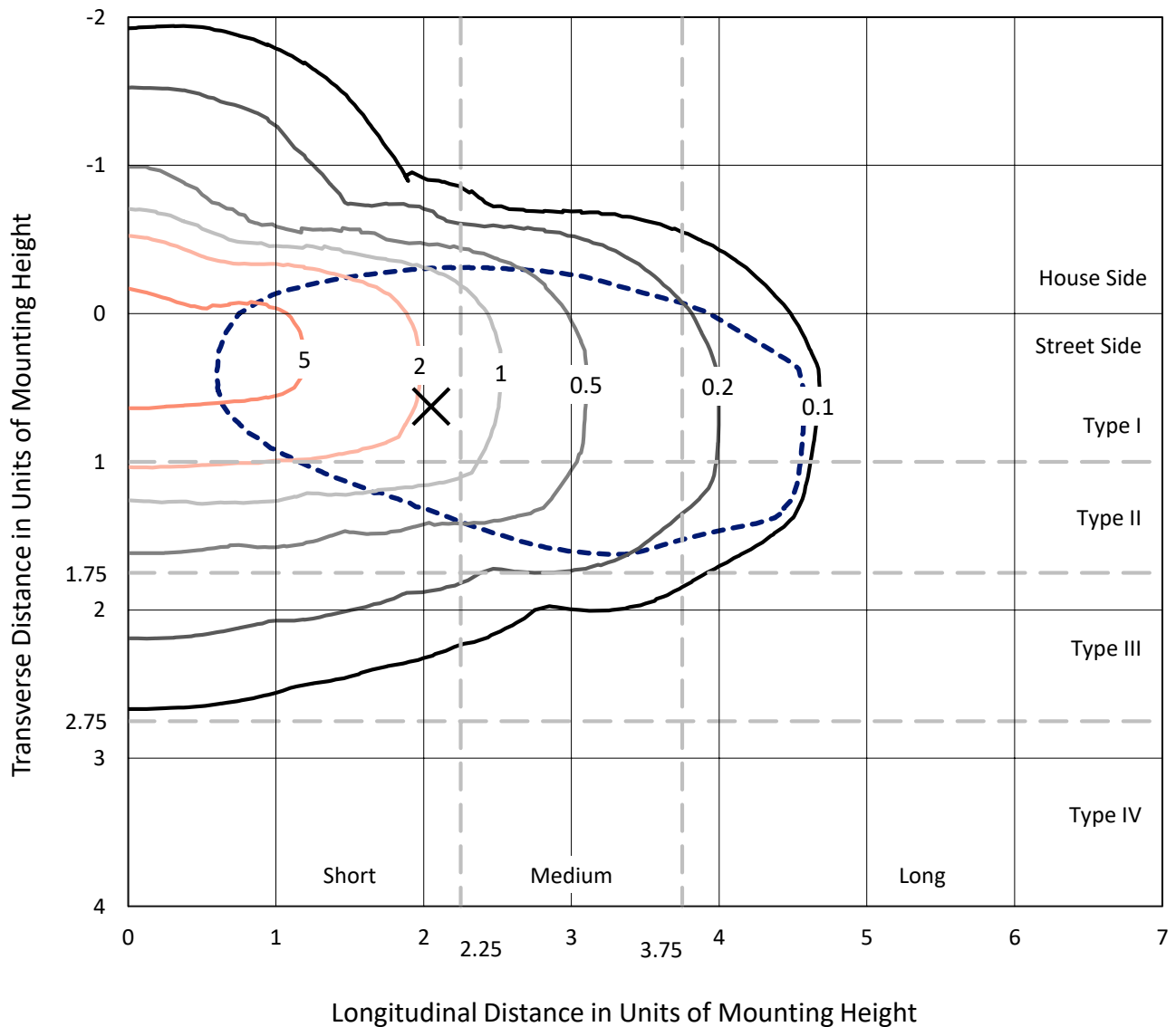


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

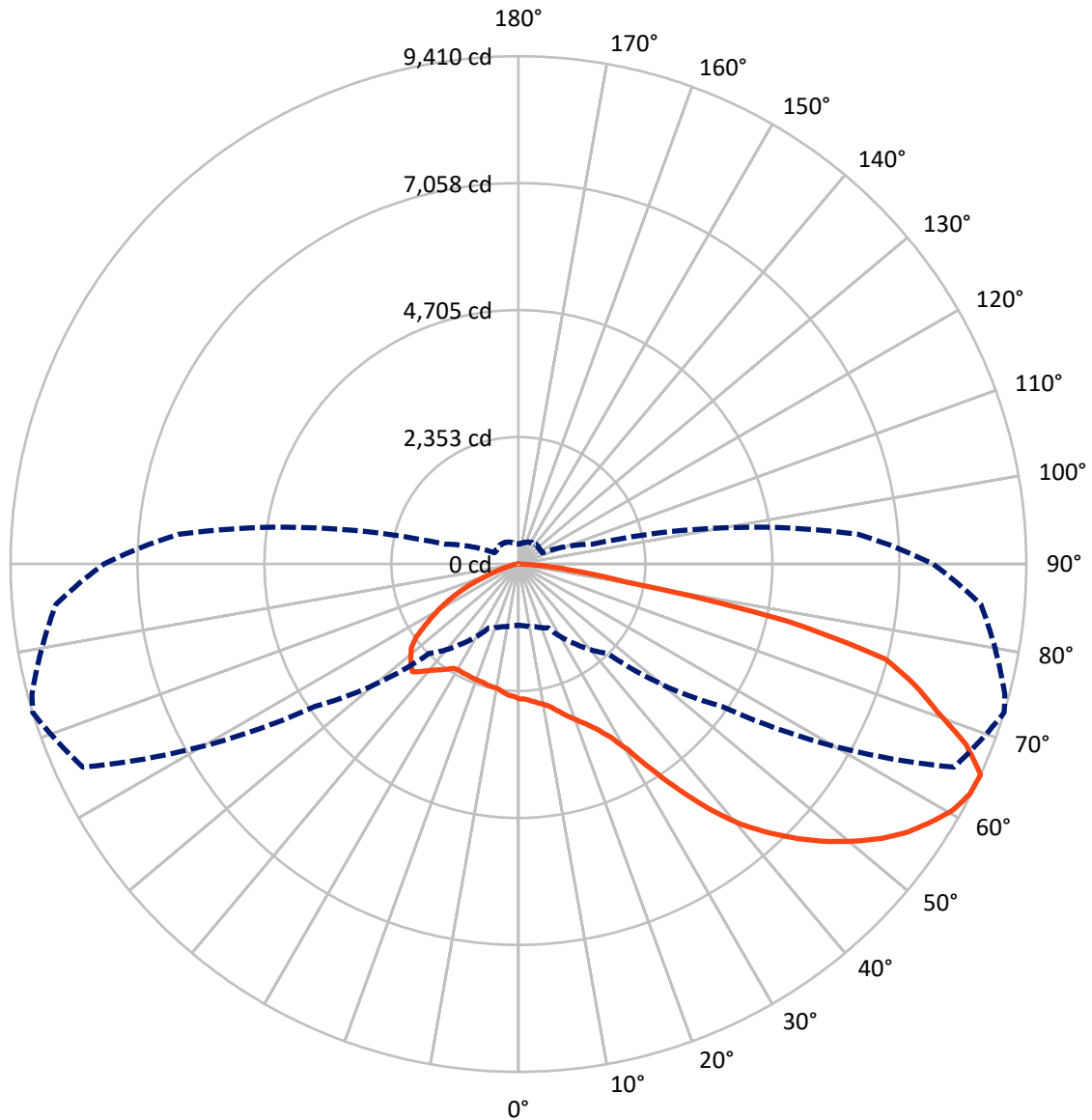


Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3505.8	0.0	3505.8
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	10170.2	0.0	10170.2
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	13676.0	0.0	13676.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.6	1.7
10°-20°	721.5	5.3
20°-30°	1210.3	8.8
30°-40°	1774.9	13.0
40°-50°	2398.8	17.5
50°-60°	2778.8	20.3
60°-70°	2714.4	19.8
70°-80°	1630.0	11.9
80°-90°	208.7	1.5
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°	13676.0	100.0
0°-180°	13676.0	100.0



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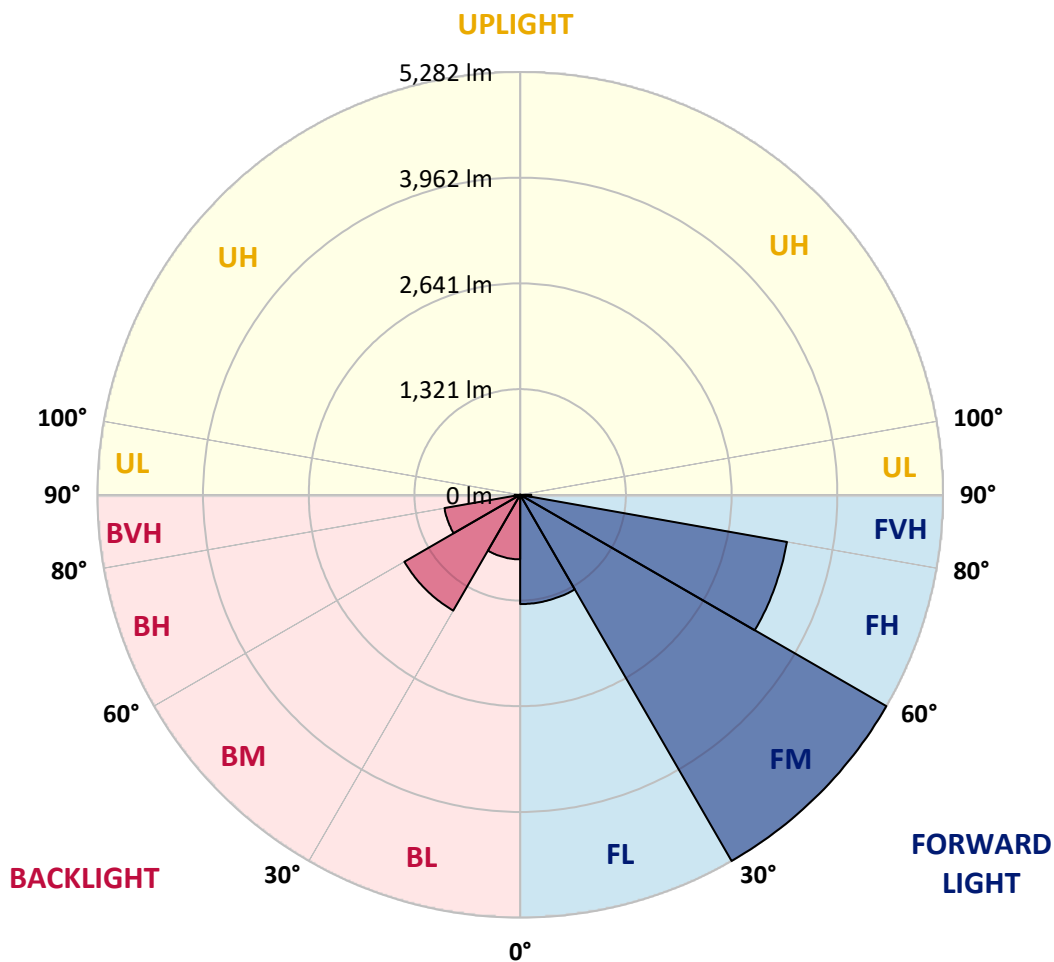
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.6	10.0			
FM	(30°-60°)	5282.1	38.6			
FH	(60°-80°)	3384.5	24.7			G2/5000
FVH	(80°-90°)	139.0	1.0			G2/225
BL	(0°-30°)	805.8	5.9	B2/1000		
BM	(30°-60°)	1670.3	12.2	B2/2500		
BH	(60°-80°)	959.9	7.0	B2/1000		G2/1000
BVH	(80°-90°)	69.8	0.5			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°	73°	75°	85°
0°	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6
2.5°	2654.6	2664.5	2653.4	2621.1	2604.9	2593.8	2560.2	2530.4	2506.9	2504.4	2482.0
5°	2756.4	2771.3	2752.7	2711.7	2695.6	2672.0	2634.7	2593.8	2551.6	2542.9	2498.2
7.5°	2885.6	2888.0	2878.1	2837.1	2803.6	2753.9	2689.4	2645.9	2597.5	2583.8	2513.1
10°	2994.8	2993.6	2981.2	2941.4	2907.9	2864.4	2773.8	2703.0	2645.9	2628.5	2530.4
12.5°	3099.1	3096.6	3084.2	3043.2	3001.0	2965.0	2896.7	2801.1	2724.1	2701.8	2580.1
15°	3228.2	3222.0	3202.2	3147.5	3114.0	3071.8	3022.1	2926.5	2838.4	2807.3	2652.1
17.5°	3327.6	3326.3	3311.4	3265.5	3225.8	3179.8	3133.9	3059.4	2963.8	2929.0	2722.9
20°	3384.7	3379.7	3376.0	3340.0	3330.1	3305.2	3239.4	3182.3	3086.7	3050.7	2802.4
22.5°	3445.5	3446.8	3448.0	3429.4	3457.9	3436.8	3388.4	3318.9	3222.0	3181.1	2914.1
25°	3459.2	3461.7	3486.5	3527.5	3562.2	3600.7	3566.0	3497.7	3393.4	3349.9	3066.8
27.5°	3420.7	3430.6	3505.1	3574.7	3697.6	3747.2	3741.0	3737.3	3630.5	3587.1	3276.7
30°	3455.5	3455.5	3506.4	3625.6	3780.8	3911.1	3939.7	4019.2	3986.9	3955.8	3629.3
32.5°	3351.2	3369.8	3460.4	3626.8	3872.7	4062.6	4191.8	4412.8	4540.6	4514.6	4128.4
35°	3155.0	3179.8	3312.7	3567.2	3918.6	4241.4	4472.4	4898.2	5145.3	5176.4	4729.4
37.5°	3003.5	3024.6	3191.0	3474.1	3936.0	4409.0	4796.4	5444.6	5763.7	5747.5	5238.4
40°	2818.5	2855.8	3023.4	3363.6	3895.0	4551.8	5147.8	5946.2	6338.5	6264.0	5722.7
42.5°	2652.1	2684.4	2824.7	3187.3	3837.9	4632.5	5465.7	6462.7	6806.6	6747.0	6180.8
45°	2475.8	2504.4	2634.7	2976.2	3705.0	4672.3	5763.7	6956.9	7256.1	7189.1	6605.5
47.5°	2273.4	2311.9	2467.1	2777.5	3510.1	4647.4	5980.9	7386.5	7683.2	7633.6	6956.9
50°	1763.1	1802.8	2208.9	2591.3	3239.4	4544.4	6175.9	7816.1	8069.4	8022.2	7267.3
52.5°	1600.5	1617.8	1744.5	2377.7	2957.6	4340.7	6297.6	8169.9	8445.6	8398.4	7560.3
55°	1501.1	1513.5	1584.3	1941.9	2717.9	4013.0	6312.5	8537.5	8762.2	8700.1	7871.9
57.5°	1399.3	1413.0	1491.2	1675.0	2477.1	3500.2	6154.8	8849.1	9019.2	8952.2	8169.9
60°	1313.6	1321.1	1398.1	1524.7	2205.1	2991.1	5748.8	9061.4	9256.4	9169.5	8461.7
62.5°	1235.4	1245.4	1301.2	1416.7	1976.7	2609.9	5182.6	9062.7	9386.7	9333.3	8609.5
65°	1133.6	1148.5	1203.1	1307.4	1791.7	2349.2	4596.5	8905.0	9410.3	9330.9	8602.0
67.5°	1015.7	1034.3	1083.9	1167.1	1545.8	2071.0	3779.5	8697.6	8949.7	8936.0	8246.9
70°	897.7	897.7	953.6	1020.6	1282.6	1773.1	2986.1	7958.9	8246.9	8268.0	7610.0
72.5°	757.4	759.9	803.3	861.7	1033.0	1455.2	2175.3	6804.1	7688.2	7432.4	6863.7
75°	635.7	633.2	677.9	726.4	840.6	1146.0	1419.2	4998.8	7026.4	7083.5	6040.5
77.5°	337.7	325.3	382.4	420.9	492.9	637.0	787.2	2506.9	5088.2	5200.0	4836.2
80°	95.6	96.8	253.3	283.1	324.1	315.4	365.0	956.1	2012.7	2268.5	2819.7
82.5°	57.1	65.8	144.0	168.9	126.6	81.9	139.1	531.4	1041.7	1167.1	1399.3
85°	29.8	32.3	50.9	63.3	48.4	41.0	42.2	223.5	506.6	515.3	558.7
87.5°	13.7	13.7	18.6	19.9	12.4	7.4	5.0	3.7	3.7	2.5	2.5
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°	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6	2500.6
2.5°	2464.6	2477.1	2455.9	2439.8	2427.4	2419.9	2411.2	2390.1	2396.4	2405.0	2403.8
5°	2477.1	2483.3	2446.0	2395.1	2347.9	2314.4	2292.1	2258.5	2258.5	2272.2	2272.2
7.5°	2488.2	2479.5	2403.8	2318.1	2264.7	2237.4	2201.4	2165.4	2159.2	2169.1	2170.4
10°	2494.4	2457.2	2351.7	2272.2	2202.7	2146.8	2100.8	2059.9	2058.6	2072.3	2074.8
12.5°	2521.8	2449.7	2347.9	2238.7	2134.4	2074.8	2020.1	1974.2	1958.1	1959.3	1961.8
15°	2564.0	2479.5	2343.0	2192.7	2079.7	2000.3	1920.8	1862.4	1847.5	1867.4	1874.9
17.5°	2614.9	2528.0	2319.4	2150.5	2012.7	1917.1	1837.6	1785.5	1738.3	1717.2	1713.5
20°	2681.9	2568.9	2331.8	2088.4	1948.1	1820.2	1720.9	1657.6	1617.8	1615.4	1612.9
22.5°	2770.1	2614.9	2334.3	2047.5	1846.3	1713.5	1590.5	1554.5	1483.8	1457.7	1468.9
25°	2886.8	2684.4	2328.1	2004.0	1768.1	1589.3	1441.5	1375.7	1349.7	1319.9	1322.3
27.5°	3037.0	2794.9	2344.2	1946.9	1640.2	1437.8	1272.7	1201.9	1162.2	1137.3	1141.1
30°	3342.5	2962.5	2343.0	1892.2	1522.2	1281.4	1095.1	1047.9	1008.2	985.9	997.0
32.5°	3777.0	3326.3	2395.1	1819.0	1388.1	1071.5	946.1	892.7	859.2	834.4	840.6
35°	4314.7	3722.4	2529.2	1719.7	1235.4	911.4	825.7	759.9	718.9	709.0	705.2
37.5°	4813.8	4072.6	2655.9	1653.9	1060.4	823.2	715.2	649.4	613.4	625.8	625.8
40°	5259.6	4536.9	2798.6	1548.3	901.4	722.6	592.3	562.5	543.8	564.9	572.4
42.5°	5596.0	4982.7	2992.3	1409.3	772.3	603.4	506.6	527.7	535.1	550.0	546.3
45°	6013.2	5237.2	3183.5	1280.1	659.3	502.9	489.2	532.7	550.0	563.7	557.5
47.5°	6396.9	5434.6	3145.1	1041.7	555.0	486.7	497.9	532.7	562.5	584.8	581.1
50°	6727.2	5681.7	3071.8	809.5	532.7	501.6	506.6	519.0	563.7	578.6	578.6
52.5°	6933.3	5926.3	2981.2	654.3	548.8	520.2	511.6	510.3	540.1	551.3	541.4
55°	7181.6	6179.6	2746.5	607.2	555.0	532.7	525.2	514.0	522.7	514.0	519.0
57.5°	7457.2	6429.2	2386.4	593.5	551.3	528.9	568.7	509.1	504.1	473.1	465.6
60°	7699.4	6527.3	2071.0	562.5	531.4	519.0	528.9	502.9	478.0	437.1	420.9
62.5°	7790.0	6518.6	1750.7	530.2	501.6	504.1	502.9	484.2	461.9	420.9	411.0
65°	7680.7	6319.9	1419.2	491.7	478.0	488.0	475.5	448.2	411.0	377.5	368.8
67.5°	7310.7	5813.3	1054.1	440.8	439.5	458.2	449.5	412.2	371.2	345.2	345.2
70°	6603.0	5190.0	682.9	366.3	393.6	425.9	425.9	386.1	332.8	310.4	316.6
72.5°	5828.2	4466.2	442.0	271.9	310.4	386.1	383.7	356.3	306.7	278.1	279.4
75°	5048.5	3543.6	285.6	187.5	201.1	329.0	340.2	290.5	238.4	203.6	197.4
77.5°	3837.9	2665.8	181.3	109.3	127.9	201.1	258.3	242.1	243.4	296.8	294.3
80°	2360.3	1606.7	131.6	53.4	63.3	131.6	208.6	230.9	324.1	213.6	196.2
82.5°	1182.0	751.2	69.5	32.3	36.0	58.4	124.2	276.9	235.9	141.5	134.1
85°	442.0	202.4	21.1	16.1	19.9	29.8	50.9	253.3	150.2	113.0	110.5
87.5°	2.5	3.7	3.7	5.0	7.4	8.7	18.6	120.4	75.7	54.6	52.1
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)