

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: P233841

Luminaire Tested: **VERD-G-C028-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233841
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-C028-D-U-T2
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 885mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13524 lumens
Efficiency: N/A
Efficacy: 131.3 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): 103
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

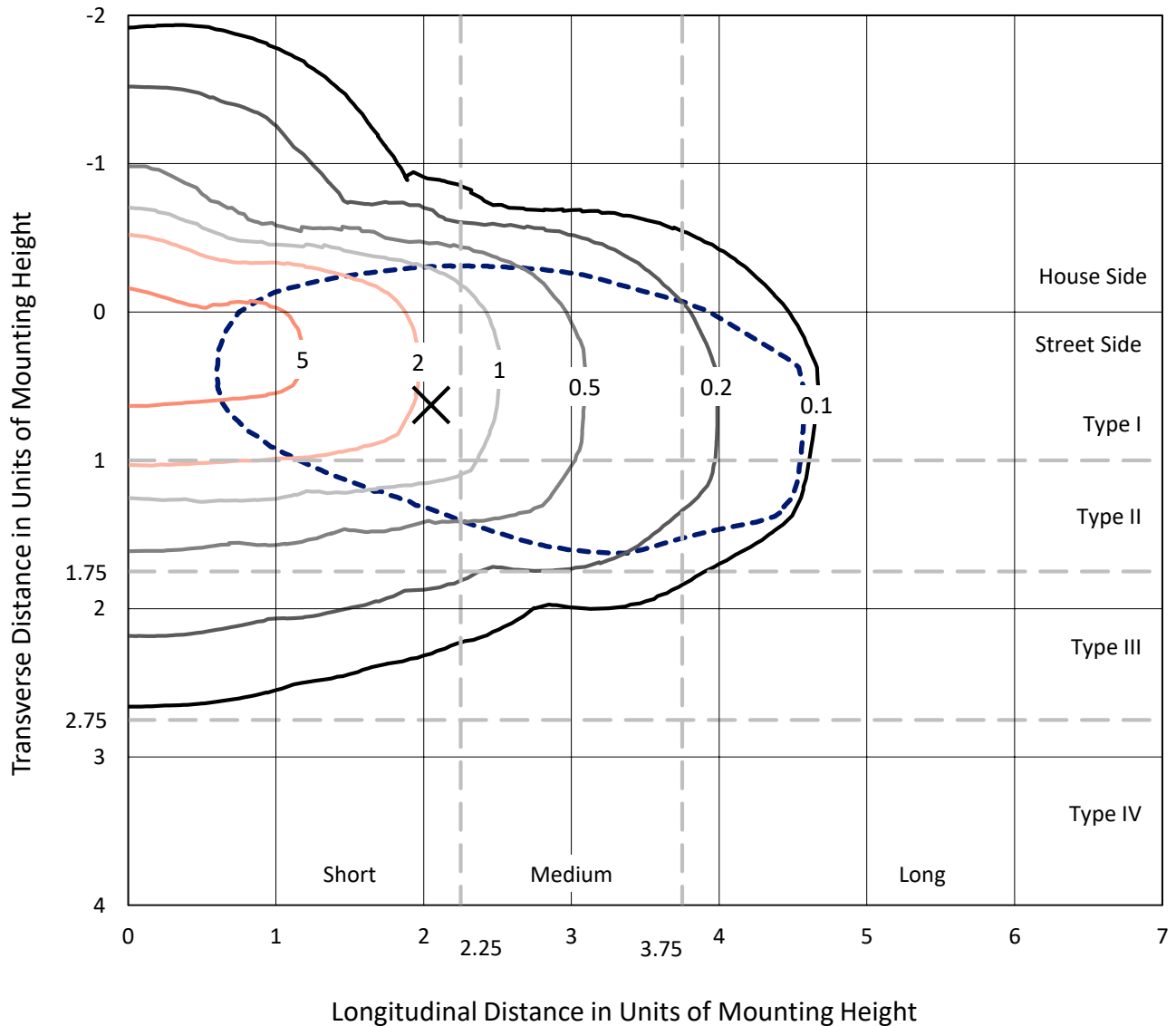


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

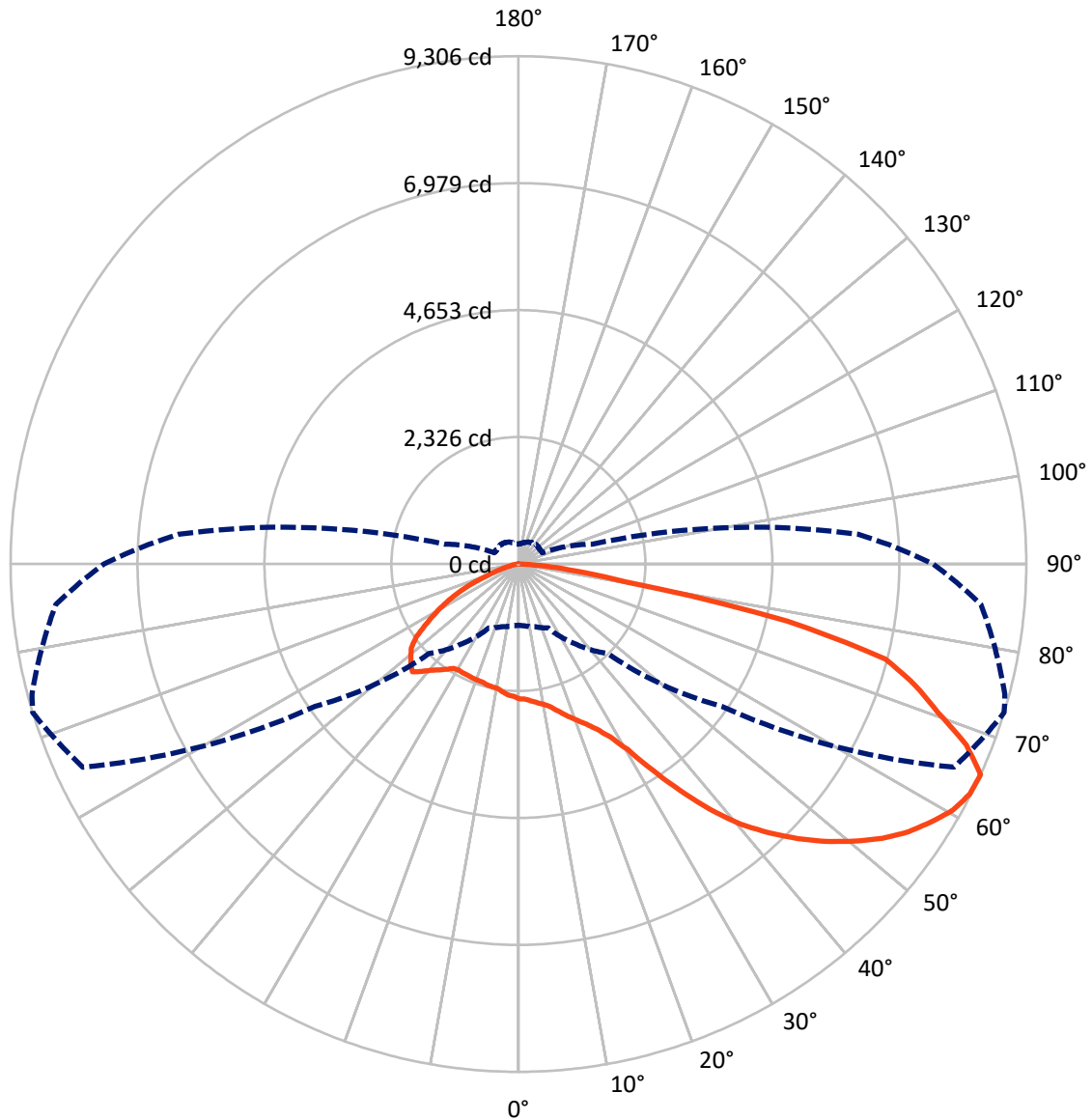


Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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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
House Side	Lumens	3466.8	0.0	3466.8
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	10057.2	0.0	10057.2
	% Fixture	74.4	0.0	74.4
Total	Lumens	13524.0	0.0	13524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.7
10°-20°	713.5	5.3
20°-30°	1196.8	8.8
30°-40°	1755.1	13.0
40°-50°	2372.1	17.5
50°-60°	2747.9	20.3
60°-70°	2684.2	19.8
70°-80°	1611.9	11.9
80°-90°	206.4	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°	13524.0	100.0
0°-180°	13524.0	100.0

Coefficient of Utilization



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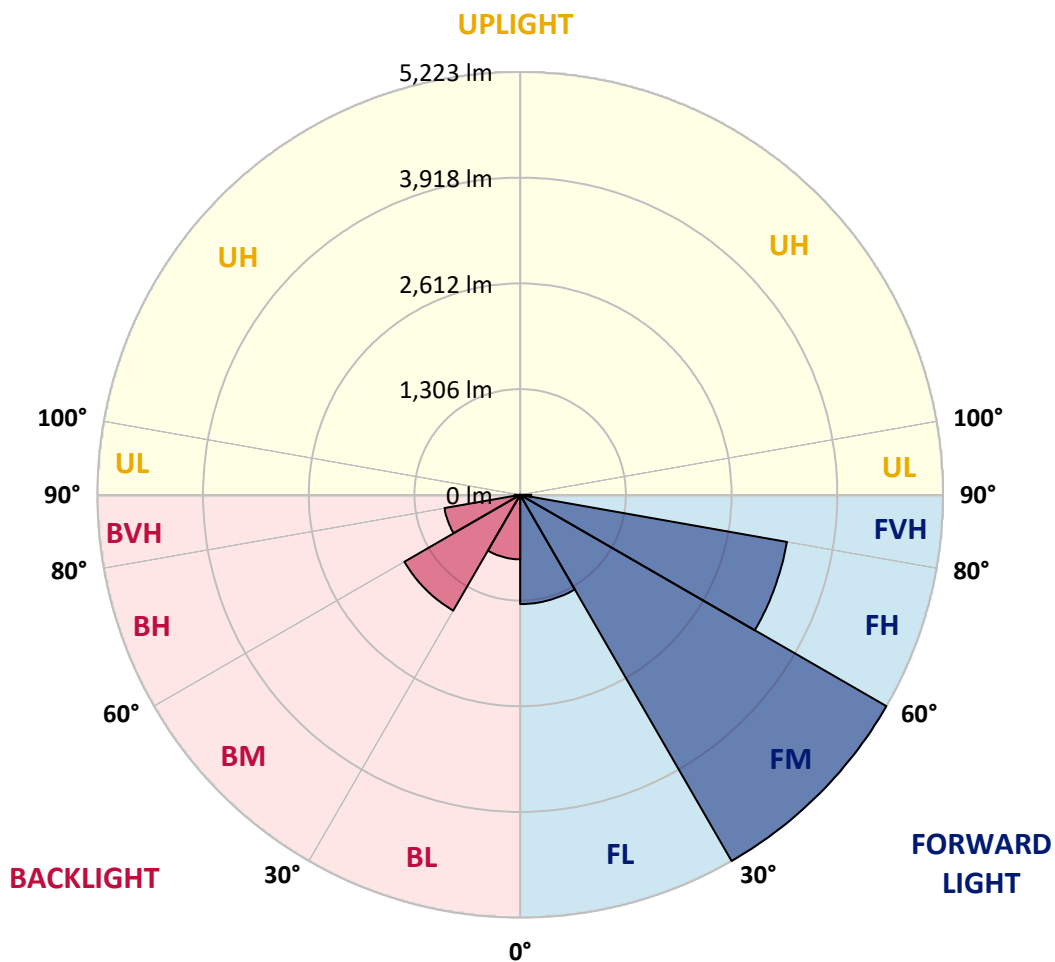
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1349.5	10.0			
FM	(30°-60°)	5223.4	38.6			
FH	(60°-80°)	3346.9	24.7			G2/5000
FVH	(80°-90°)	137.5	1.0			G2/225
BL	(0°-30°)	796.8	5.9	B2/1000		
BM	(30°-60°)	1651.8	12.2	B2/2500		
BH	(60°-80°)	949.2	7.0	B2/1000		G2/1000
BVH	(80°-90°)	69.0	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°	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9
2.5°	2625.1	2634.9	2623.9	2592.0	2576.0	2564.9	2531.8	2502.3	2479.0	2476.5	2454.4
5°	2725.8	2740.5	2722.1	2681.6	2665.6	2642.3	2605.5	2564.9	2523.2	2514.6	2470.4
7.5°	2853.5	2855.9	2846.1	2805.6	2772.4	2723.3	2659.5	2616.5	2568.6	2555.1	2485.1
10°	2961.5	2960.3	2948.0	2908.7	2875.6	2832.6	2743.0	2673.0	2616.5	2599.3	2502.3
12.5°	3064.7	3062.2	3049.9	3009.4	2967.7	2932.1	2864.5	2770.0	2693.9	2671.8	2551.4
15°	3192.4	3186.2	3166.6	3112.6	3079.4	3037.7	2988.5	2894.0	2806.8	2776.1	2622.6
17.5°	3290.6	3289.4	3274.6	3229.2	3189.9	3144.5	3099.0	3025.4	2930.8	2896.5	2692.6
20°	3347.1	3342.2	3338.5	3302.9	3293.0	3268.5	3203.4	3146.9	3052.4	3016.8	2771.2
22.5°	3407.2	3408.5	3409.7	3391.3	3419.5	3398.6	3350.8	3282.0	3186.2	3145.7	2881.7
25°	3420.7	3423.2	3447.8	3488.3	3522.7	3560.7	3526.3	3458.8	3355.7	3312.7	3032.7
27.5°	3382.7	3392.5	3466.2	3534.9	3656.5	3705.6	3699.5	3695.8	3590.2	3547.2	3240.2
30°	3417.1	3417.1	3467.4	3585.3	3738.7	3867.7	3895.9	3974.5	3942.6	3911.9	3589.0
32.5°	3313.9	3332.3	3422.0	3586.5	3829.6	4017.5	4145.2	4363.7	4490.2	4464.4	4082.5
35°	3119.9	3144.5	3275.9	3527.6	3875.0	4194.3	4422.7	4843.8	5088.1	5118.8	4676.8
37.5°	2970.1	2991.0	3155.5	3435.5	3892.2	4360.0	4743.1	5384.0	5699.6	5683.6	5180.2
40°	2787.2	2824.0	2989.8	3326.2	3851.7	4501.2	5090.6	5880.1	6268.1	6194.4	5659.1
42.5°	2622.6	2654.6	2793.3	3151.8	3795.2	4581.0	5404.9	6390.9	6731.0	6672.0	6112.1
45°	2448.3	2476.5	2605.5	2943.1	3663.9	4620.3	5699.6	6879.5	7175.5	7109.1	6532.1
47.5°	2248.2	2286.2	2439.7	2746.7	3471.1	4595.8	5914.5	7304.4	7597.8	7548.7	6879.5
50°	1743.5	1782.8	2184.3	2562.5	3203.4	4493.9	6107.2	7729.2	7979.7	7933.0	7186.5
52.5°	1582.7	1599.9	1725.1	2351.3	2924.7	4292.5	6227.6	8079.1	8351.7	8305.1	7476.3
55°	1484.4	1496.7	1566.7	1920.3	2687.7	3968.4	6242.3	8442.6	8664.8	8603.4	7784.5
57.5°	1383.8	1397.3	1474.6	1656.3	2449.5	3461.3	6086.4	8750.8	8919.0	8852.7	8079.1
60°	1299.0	1306.4	1382.5	1507.8	2180.6	2957.8	5684.9	8960.7	9153.5	9067.5	8367.7
62.5°	1221.7	1231.5	1286.8	1401.0	1954.7	2580.9	5125.0	8961.9	9282.4	9229.6	8513.8
65°	1121.0	1135.7	1189.8	1292.9	1771.8	2323.1	4545.4	8806.0	9305.7	9227.2	8506.4
67.5°	1004.4	1022.8	1071.9	1154.2	1528.7	2048.0	3737.5	8601.0	8850.2	8836.7	8155.3
70°	887.7	887.7	943.0	1009.3	1268.4	1753.3	2952.9	7870.4	8155.3	8176.1	7525.4
72.5°	749.0	751.4	794.4	852.1	1021.6	1439.0	2151.2	6728.5	7602.7	7349.8	6787.5
75°	628.7	626.2	670.4	718.3	831.2	1133.3	1403.4	4943.3	6948.3	7004.8	5973.4
77.5°	334.0	321.7	378.2	416.2	487.4	629.9	778.4	2479.0	5031.7	5142.2	4782.4
80°	94.5	95.8	250.5	279.9	320.5	311.9	361.0	945.4	1990.3	2243.2	2788.4
82.5°	56.5	65.1	142.4	167.0	125.2	81.0	137.5	525.5	1030.2	1154.2	1383.8
85°	29.5	31.9	50.3	62.6	47.9	40.5	41.7	221.0	501.0	509.6	552.5
87.5°	13.5	13.5	18.4	19.6	12.3	7.4	4.9	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°	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9	2472.9
2.5°	2437.2	2449.5	2428.7	2412.7	2400.4	2393.0	2384.5	2363.6	2369.7	2378.3	2377.1
5°	2449.5	2455.7	2418.8	2368.5	2321.8	2288.7	2266.6	2233.4	2233.4	2246.9	2246.9
7.5°	2460.6	2452.0	2377.1	2292.4	2239.6	2212.6	2176.9	2141.3	2135.2	2145.0	2146.3
10°	2466.7	2429.9	2325.5	2246.9	2178.2	2122.9	2077.5	2037.0	2035.7	2049.3	2051.7
12.5°	2493.7	2422.5	2321.8	2213.8	2110.6	2051.7	1997.7	1952.3	1936.3	1937.5	1940.0
15°	2535.5	2452.0	2316.9	2168.4	2056.6	1978.0	1899.5	1841.7	1827.0	1846.7	1854.0
17.5°	2585.8	2499.9	2293.6	2126.6	1990.3	1895.8	1817.2	1765.6	1719.0	1698.1	1694.4
20°	2652.1	2540.4	2305.9	2065.2	1926.5	1800.0	1701.8	1639.2	1599.9	1597.4	1595.0
22.5°	2739.3	2585.8	2308.3	2024.7	1825.8	1694.4	1572.9	1537.2	1467.3	1441.5	1452.5
25°	2854.7	2654.6	2302.2	1981.7	1748.4	1571.6	1425.5	1360.4	1334.7	1305.2	1307.6
27.5°	3003.3	2763.9	2318.1	1925.2	1622.0	1421.8	1258.5	1188.5	1149.3	1124.7	1128.4
30°	3305.3	2929.6	2316.9	1871.2	1505.3	1267.1	1082.9	1036.3	997.0	974.9	985.9
32.5°	3735.1	3289.4	2368.5	1798.8	1372.7	1059.6	935.6	882.8	849.7	825.1	831.2
35°	4266.7	3681.0	2501.1	1700.5	1221.7	901.2	816.5	751.4	710.9	701.1	697.4
37.5°	4760.3	4027.3	2626.3	1635.5	1048.6	814.1	707.2	642.2	606.5	618.8	618.8
40°	5201.1	4486.5	2767.5	1531.1	891.4	714.6	585.7	556.2	537.8	558.7	566.0
42.5°	5533.8	4927.3	2959.1	1393.6	763.7	596.7	501.0	521.8	529.2	543.9	540.2
45°	5946.4	5179.0	3148.2	1265.9	652.0	497.3	483.8	526.7	543.9	557.4	551.3
47.5°	6325.8	5374.2	3110.1	1030.2	548.8	481.3	492.4	526.7	556.2	578.3	574.6
50°	6652.4	5618.6	3037.7	800.5	526.7	496.0	501.0	513.2	557.4	572.2	572.2
52.5°	6856.2	5860.4	2948.0	647.1	542.7	514.5	505.9	504.6	534.1	545.2	535.3
55°	7101.8	6110.9	2716.0	600.4	548.8	526.7	519.4	508.3	516.9	508.3	513.2
57.5°	7374.4	6357.7	2359.9	586.9	545.2	523.1	562.3	503.4	498.5	467.8	460.4
60°	7613.8	6454.7	2048.0	556.2	525.5	513.2	523.1	497.3	472.7	432.2	416.2
62.5°	7703.4	6446.1	1731.2	524.3	496.0	498.5	497.3	478.9	456.8	416.2	406.4
65°	7595.4	6249.7	1403.4	486.2	472.7	482.5	470.3	443.2	406.4	373.3	364.7
67.5°	7229.5	5748.7	1042.4	435.9	434.7	453.1	444.5	407.6	367.1	341.3	341.3
70°	6529.6	5132.3	675.3	362.2	389.2	421.1	421.1	381.9	329.1	307.0	313.1
72.5°	5763.4	4416.5	437.1	268.9	307.0	381.9	379.4	352.4	303.3	275.0	276.3
75°	4992.4	3504.2	282.4	185.4	198.9	325.4	336.4	287.3	235.7	201.4	195.2
77.5°	3795.2	2636.2	179.3	108.0	126.5	198.9	255.4	239.4	240.7	293.5	291.0
80°	2334.1	1588.8	130.2	52.8	62.6	130.2	206.3	228.4	320.5	211.2	194.0
82.5°	1168.9	742.8	68.8	31.9	35.6	57.7	122.8	273.8	233.3	140.0	132.6
85°	437.1	200.1	20.9	16.0	19.6	29.5	50.3	250.5	148.6	111.7	109.3
87.5°	2.5	3.7	3.7	4.9	7.4	8.6	18.4	119.1	74.9	54.0	51.6
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)