

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: P233464

Luminaire Tested: **VERD-C02H8-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233464
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-C02H8-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12296 lumens
Efficiency: N/A
Efficacy: 111.8 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): 110
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

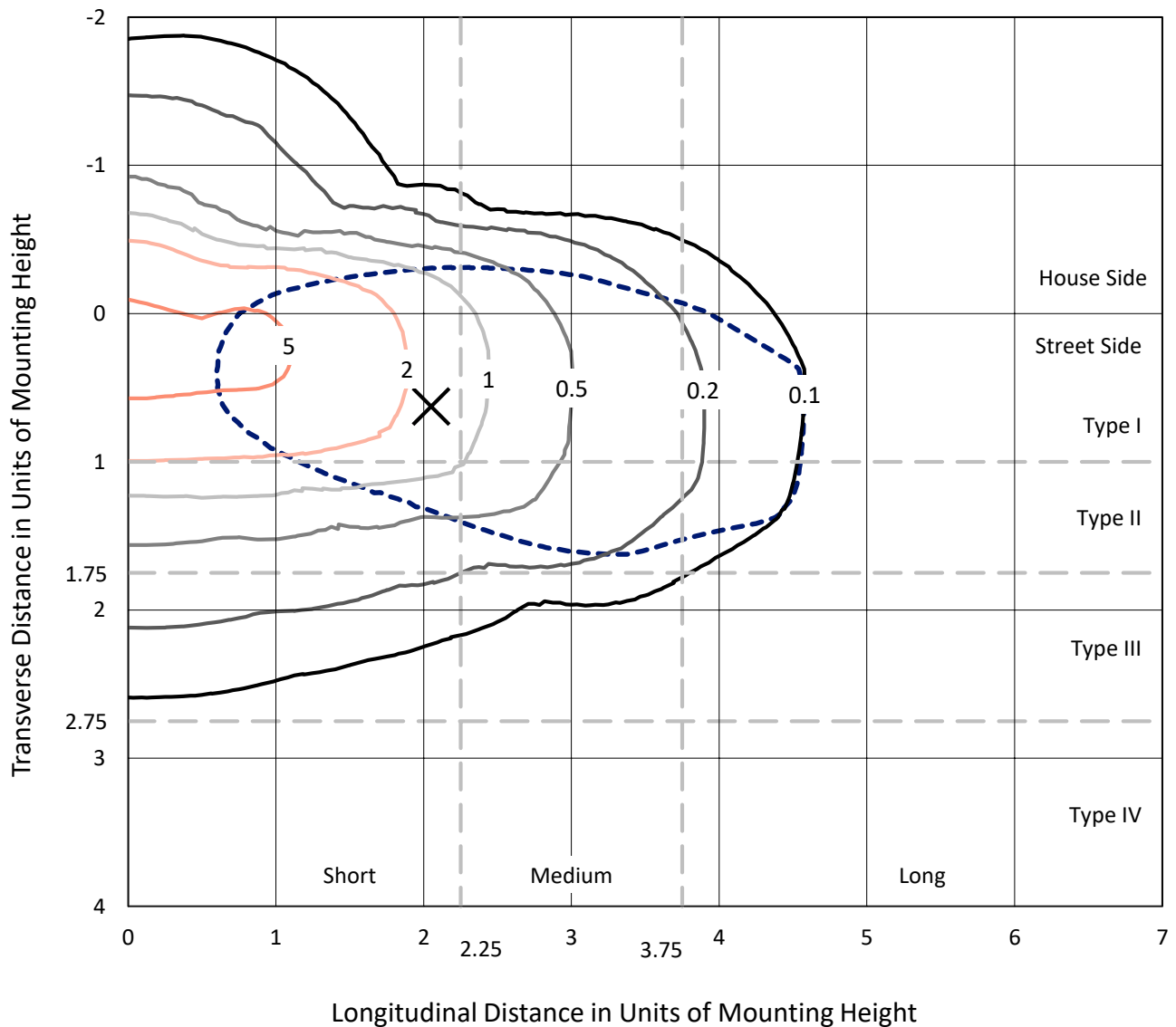


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

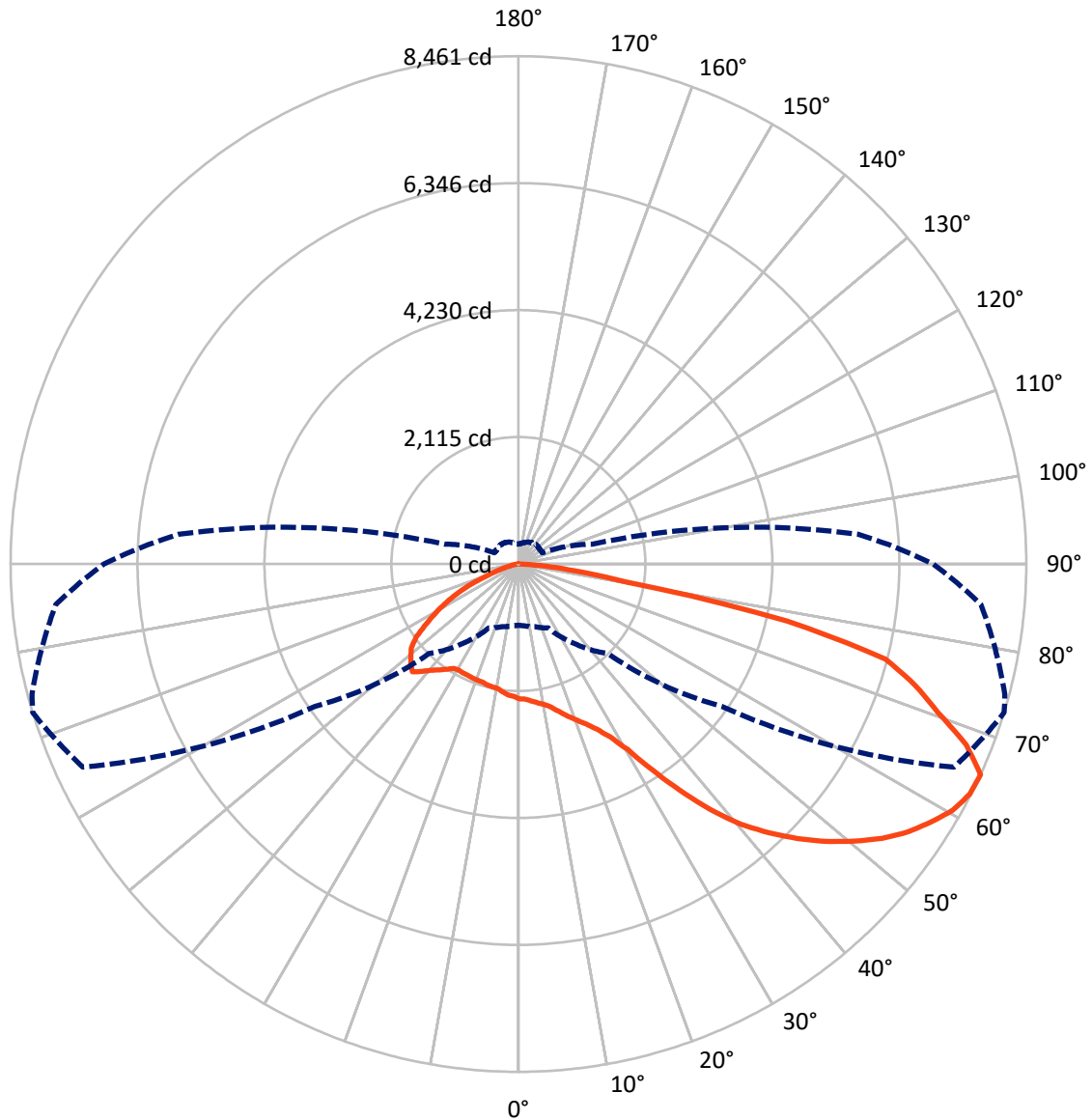


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - Non-Cutoff

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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	3152.0	0.0	3152.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	9144.0	0.0	9144.0
	% Fixture	74.4	0.0	74.4
Total	Lumens	12296.0	0.0	12296.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	1.7
10°-20°	648.7	5.3
20°-30°	1088.2	8.8
30°-40°	1595.8	13.0
40°-50°	2156.7	17.5
50°-60°	2498.4	20.3
60°-70°	2440.5	19.8
70°-80°	1465.5	11.9
80°-90°	187.7	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°	12296.0	100.0
0°-180°	12296.0	100.0



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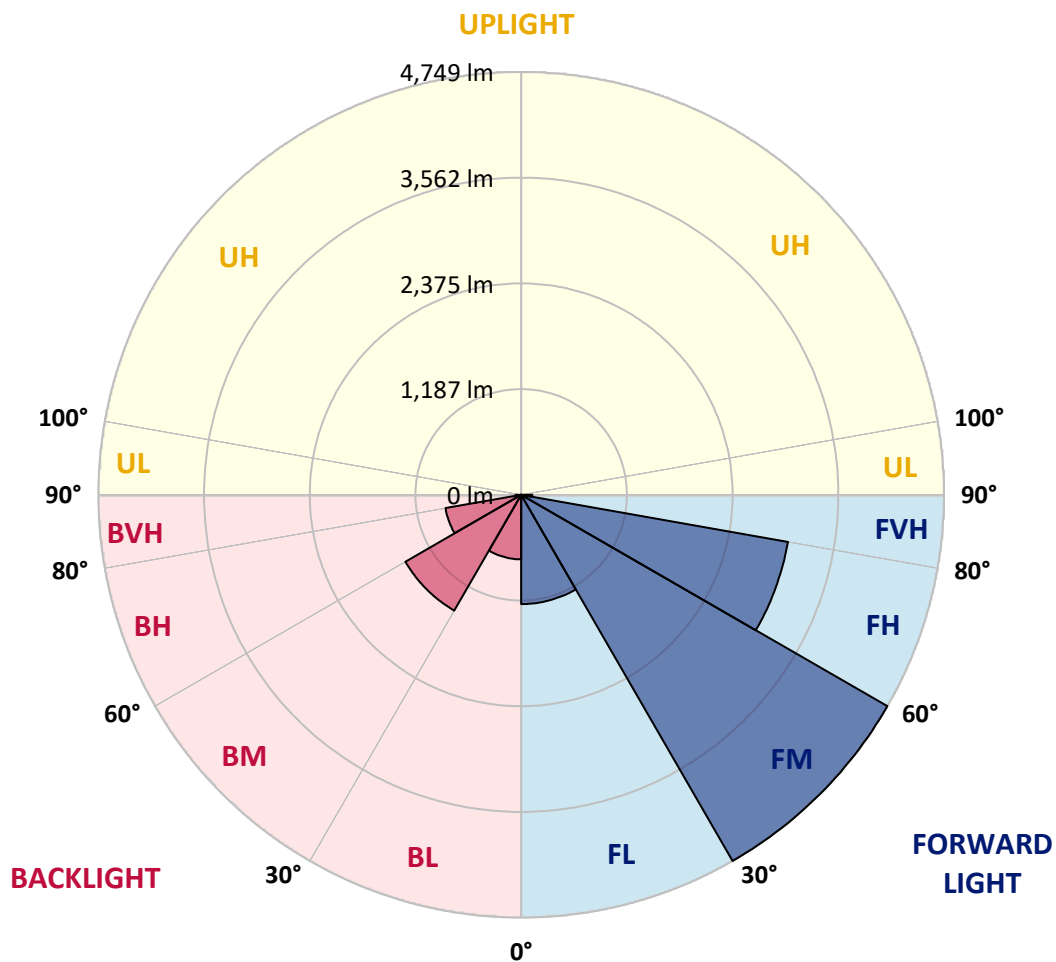
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.9	10.0			
FM (30°-60°)	4749.1	38.6			
FH (60°-80°)	3043.0	24.7			G2/5000
FVH (80°-90°)	125.0	1.0			G2/225
BL (0°-30°)	724.5	5.9	B2/1000		
BM (30°-60°)	1501.8	12.2	B2/2500		
BH (60°-80°)	863.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	62.7	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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2386.7	2395.7	2385.6	2356.6	2342.1	2332.0	2301.9	2275.1	2253.9	2251.7	2231.6
5°	2478.3	2491.7	2474.9	2438.1	2423.6	2402.4	2368.9	2332.0	2294.1	2286.3	2246.1
7.5°	2594.4	2596.6	2587.7	2550.8	2520.7	2476.0	2418.0	2378.9	2335.4	2323.1	2259.5
10°	2692.6	2691.5	2680.3	2644.6	2614.5	2575.4	2493.9	2430.3	2378.9	2363.3	2275.1
12.5°	2786.4	2784.2	2773.0	2736.2	2698.2	2665.8	2604.4	2518.5	2449.3	2429.2	2319.8
15°	2902.5	2896.9	2879.0	2829.9	2799.8	2761.8	2717.2	2631.2	2552.0	2524.1	2384.5
17.5°	2991.8	2990.7	2977.3	2936.0	2900.3	2859.0	2817.7	2750.7	2664.7	2633.5	2448.1
20°	3043.2	3038.7	3035.3	3003.0	2994.0	2971.7	2912.5	2861.2	2775.2	2742.9	2519.6
22.5°	3097.9	3099.0	3100.1	3083.3	3109.0	3090.0	3046.5	2984.0	2896.9	2860.1	2620.1
25°	3110.1	3112.4	3134.7	3171.5	3202.8	3237.4	3206.1	3144.7	3051.0	3011.9	2757.4
27.5°	3075.5	3084.5	3151.4	3214.0	3324.5	3369.1	3363.5	3360.2	3264.2	3225.1	2946.0
30°	3106.8	3106.8	3152.6	3259.7	3399.3	3516.5	3542.2	3613.6	3584.6	3556.7	3263.1
32.5°	3013.0	3029.8	3111.2	3260.8	3481.9	3652.7	3768.8	3967.5	4082.5	4059.0	3711.8
35°	2836.6	2859.0	2978.4	3207.3	3523.2	3813.4	4021.1	4404.0	4626.1	4654.0	4252.2
37.5°	2700.4	2719.4	2869.0	3123.5	3538.8	3964.1	4312.4	4895.2	5182.1	5167.6	4709.9
40°	2534.1	2567.6	2718.3	3024.2	3502.0	4092.5	4628.4	5346.2	5698.9	5632.0	5145.2
42.5°	2384.5	2413.5	2539.7	2865.7	3450.6	4165.1	4914.1	5810.6	6119.8	6066.2	5557.2
45°	2226.0	2251.7	2368.9	2675.9	3331.2	4200.8	5182.1	6254.9	6523.9	6463.6	5938.9
47.5°	2044.0	2078.6	2218.2	2497.3	3155.9	4178.5	5377.4	6641.1	6907.9	6863.3	6254.9
50°	1585.2	1620.9	1986.0	2329.8	2912.5	4085.8	5552.7	7027.4	7255.1	7212.7	6534.0
52.5°	1439.0	1454.6	1568.5	2137.8	2659.1	3902.7	5662.1	7345.5	7593.4	7550.9	6797.4
55°	1349.7	1360.8	1424.5	1746.0	2443.7	3608.0	5675.5	7676.0	7878.0	7822.2	7077.6
57.5°	1258.1	1270.4	1340.7	1505.9	2227.1	3147.0	5533.7	7956.2	8109.1	8048.8	7345.5
60°	1181.1	1187.8	1257.0	1370.9	1982.6	2689.3	5168.7	8147.1	8322.3	8244.2	7607.9
62.5°	1110.8	1119.7	1169.9	1273.7	1777.2	2346.6	4659.6	8148.2	8439.6	8391.6	7740.7
65°	1019.2	1032.6	1081.7	1175.5	1610.9	2112.1	4132.7	8006.4	8460.8	8389.3	7734.0
67.5°	913.2	929.9	974.6	1049.4	1389.8	1862.1	3398.1	7820.0	8046.6	8034.3	7414.8
70°	807.1	807.1	857.4	917.6	1153.2	1594.1	2684.8	7155.8	7414.8	7433.7	6842.1
72.5°	681.0	683.2	722.3	774.7	928.8	1308.4	1955.8	6117.6	6912.4	6682.4	6171.1
75°	571.6	569.3	609.5	653.1	755.8	1030.4	1276.0	4494.4	6317.4	6368.7	5431.0
77.5°	303.6	292.5	343.8	378.4	443.2	572.7	707.8	2253.9	4574.8	4675.2	4348.2
80°	86.0	87.1	227.7	254.5	291.4	283.6	328.2	859.6	1809.6	2039.6	2535.2
82.5°	51.4	59.2	129.5	151.8	113.9	73.7	125.0	477.8	936.6	1049.4	1258.1
85°	26.8	29.0	45.8	56.9	43.5	36.8	38.0	200.9	455.5	463.3	502.4
87.5°	12.3	12.3	16.7	17.9	11.2	6.7	4.5	3.3	3.3	2.2	2.2
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°	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3	2248.3
2.5°	2215.9	2227.1	2208.1	2193.6	2182.5	2175.8	2167.9	2149.0	2154.5	2162.4	2161.2
5°	2227.1	2232.7	2199.2	2153.4	2111.0	2080.9	2060.8	2030.6	2030.6	2042.9	2042.9
7.5°	2237.2	2229.3	2161.2	2084.2	2036.2	2011.7	1979.3	1946.9	1941.3	1950.3	1951.4
10°	2242.7	2209.2	2114.4	2042.9	1980.4	1930.2	1888.9	1852.0	1850.9	1863.2	1865.4
12.5°	2267.3	2202.5	2111.0	2012.8	1919.0	1865.4	1816.3	1775.0	1760.5	1761.6	1763.8
15°	2305.2	2229.3	2106.5	1971.5	1869.9	1798.4	1727.0	1674.5	1661.1	1679.0	1685.7
17.5°	2351.0	2272.9	2085.3	1933.5	1809.6	1723.6	1652.2	1605.3	1562.9	1543.9	1540.6
20°	2411.3	2309.7	2096.5	1877.7	1751.5	1636.6	1547.3	1490.3	1454.6	1452.4	1450.1
22.5°	2490.6	2351.0	2098.7	1840.8	1660.0	1540.6	1430.0	1397.7	1334.0	1310.6	1320.6
25°	2595.5	2413.5	2093.1	1801.8	1589.7	1428.9	1296.1	1236.9	1213.5	1186.7	1188.9
27.5°	2730.6	2512.9	2107.7	1750.4	1474.7	1292.7	1144.3	1080.6	1044.9	1022.6	1025.9
30°	3005.2	2663.6	2106.5	1701.3	1368.6	1152.1	984.6	942.2	906.5	886.4	896.4
32.5°	3395.9	2990.7	2153.4	1635.4	1248.1	963.4	850.7	802.7	772.5	750.2	755.8
35°	3879.3	3346.8	2274.0	1546.1	1110.8	819.4	742.4	683.2	646.4	637.4	634.1
37.5°	4328.1	3661.6	2387.9	1487.0	953.4	740.1	643.0	583.8	551.5	562.6	562.6
40°	4728.8	4079.1	2516.2	1392.1	810.5	649.7	532.5	505.7	489.0	507.9	514.6
42.5°	5031.4	4479.9	2690.4	1267.0	694.4	542.5	455.5	474.4	481.1	494.5	491.2
45°	5406.5	4708.7	2862.3	1150.9	592.8	452.1	439.8	478.9	494.5	506.8	501.2
47.5°	5751.4	4886.2	2827.7	936.6	499.0	437.6	447.7	478.9	505.7	525.8	522.4
50°	6048.3	5108.4	2761.8	727.9	478.9	451.0	455.5	466.6	506.8	520.2	520.2
52.5°	6233.7	5328.3	2680.3	588.3	493.4	467.7	459.9	458.8	485.6	495.7	486.7
55°	6456.9	5556.0	2469.4	545.9	499.0	478.9	472.2	462.2	470.0	462.2	466.6
57.5°	6704.8	5780.4	2145.6	533.6	495.7	475.6	511.3	457.7	453.2	425.3	418.6
60°	6922.4	5868.6	1862.1	505.7	477.8	466.6	475.6	452.1	429.8	393.0	378.4
62.5°	7003.9	5860.8	1574.0	476.7	451.0	453.2	452.1	435.4	415.3	378.4	369.5
65°	6905.7	5682.2	1276.0	442.1	429.8	438.7	427.6	403.0	369.5	339.4	331.6
67.5°	6573.0	5226.7	947.8	396.3	395.2	411.9	404.1	370.6	333.8	310.3	310.3
70°	5936.7	4666.3	614.0	329.3	353.9	382.9	382.9	347.2	299.2	279.1	284.7
72.5°	5240.1	4015.5	397.4	244.5	279.1	347.2	345.0	320.4	275.7	250.1	251.2
75°	4539.1	3186.0	256.8	168.6	180.8	295.8	305.9	261.2	214.3	183.1	177.5
77.5°	3450.6	2396.8	163.0	98.2	115.0	180.8	232.2	217.7	218.8	266.8	264.6
80°	2122.2	1444.5	118.3	48.0	56.9	118.3	187.5	207.6	291.4	192.0	176.4
82.5°	1062.8	675.4	62.5	29.0	32.4	52.5	111.6	248.9	212.1	127.3	120.6
85°	397.4	182.0	19.0	14.5	17.9	26.8	45.8	227.7	135.1	101.6	99.4
87.5°	2.2	3.3	3.3	4.5	6.7	7.8	16.7	108.3	68.1	49.1	46.9
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)