

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: P233490

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233490
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13958 lumens
Efficiency: N/A
Efficacy: 126.9 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

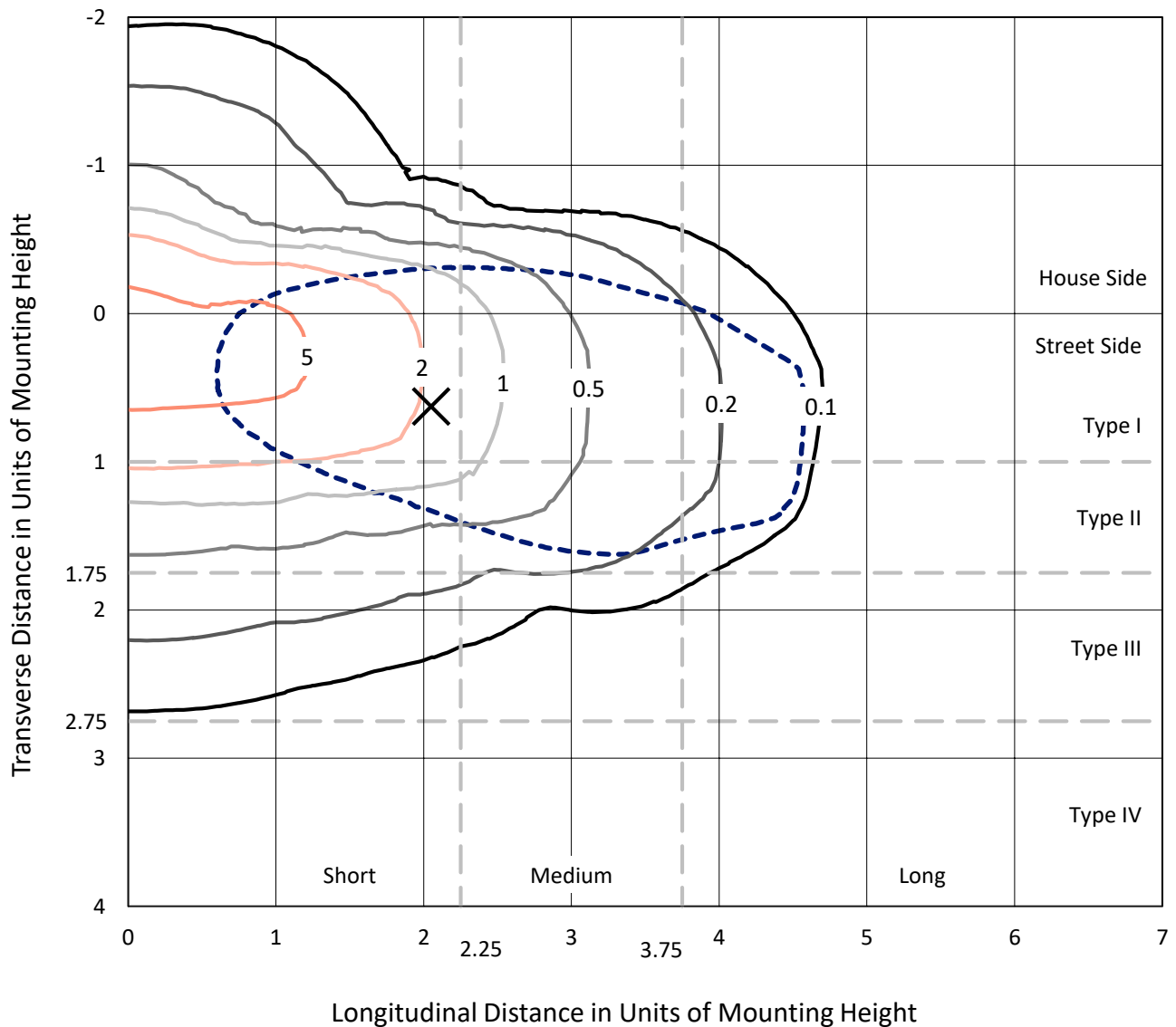


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

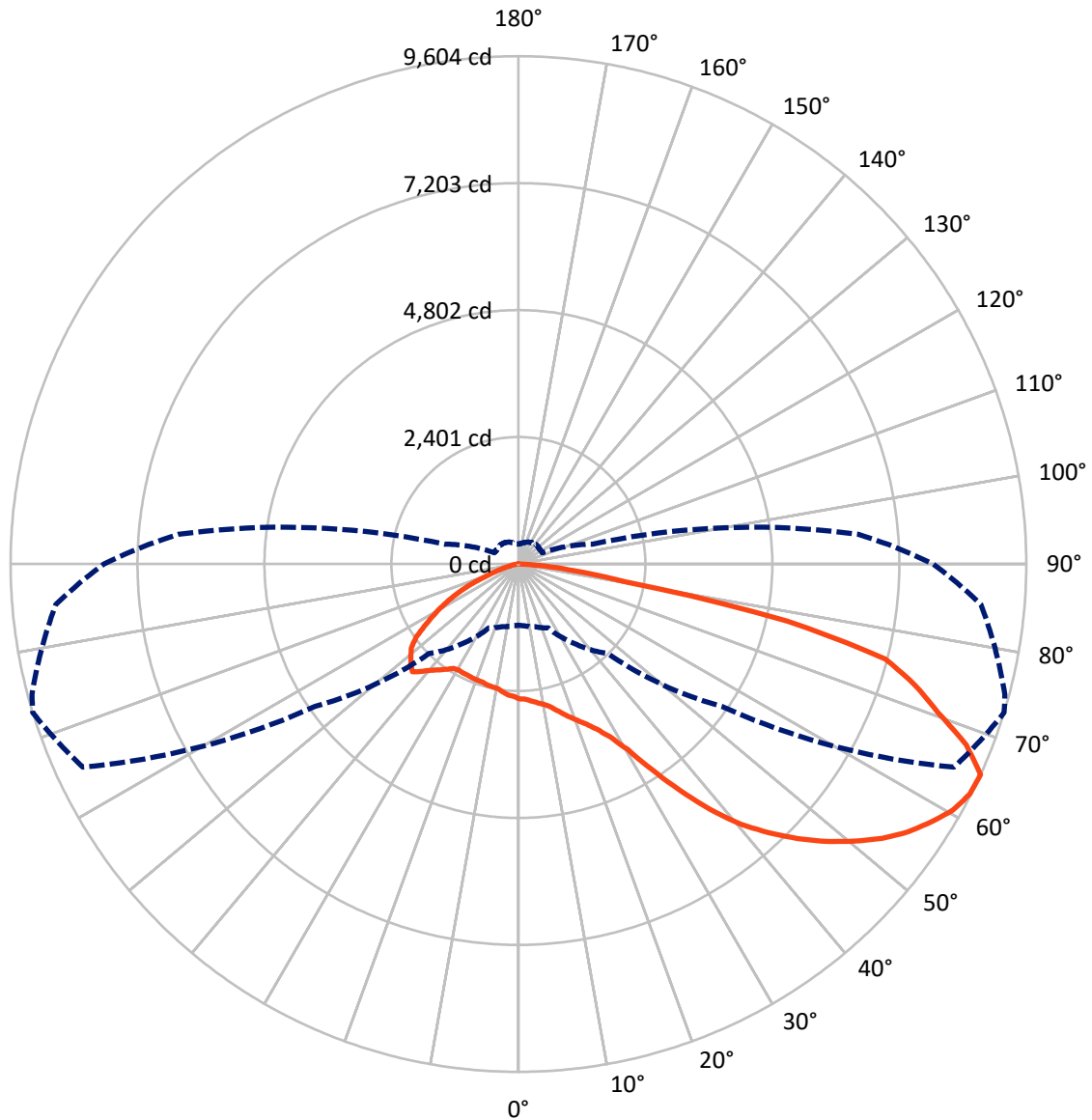


Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Non-Cutoff

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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	3578.0	0.0	3578.0
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	10379.9	0.0	10379.9
	% Fixture	74.4	0.0	74.4
Total	Lumens	13958.0	0.0	13958.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.7
10°-20°	736.4	5.3
20°-30°	1235.2	8.8
30°-40°	1811.5	13.0
40°-50°	2448.2	17.5
50°-60°	2836.1	20.3
60°-70°	2770.4	19.8
70°-80°	1663.6	11.9
80°-90°	213.1	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°	13958.0	100.0
0°-180°	13958.0	100.0



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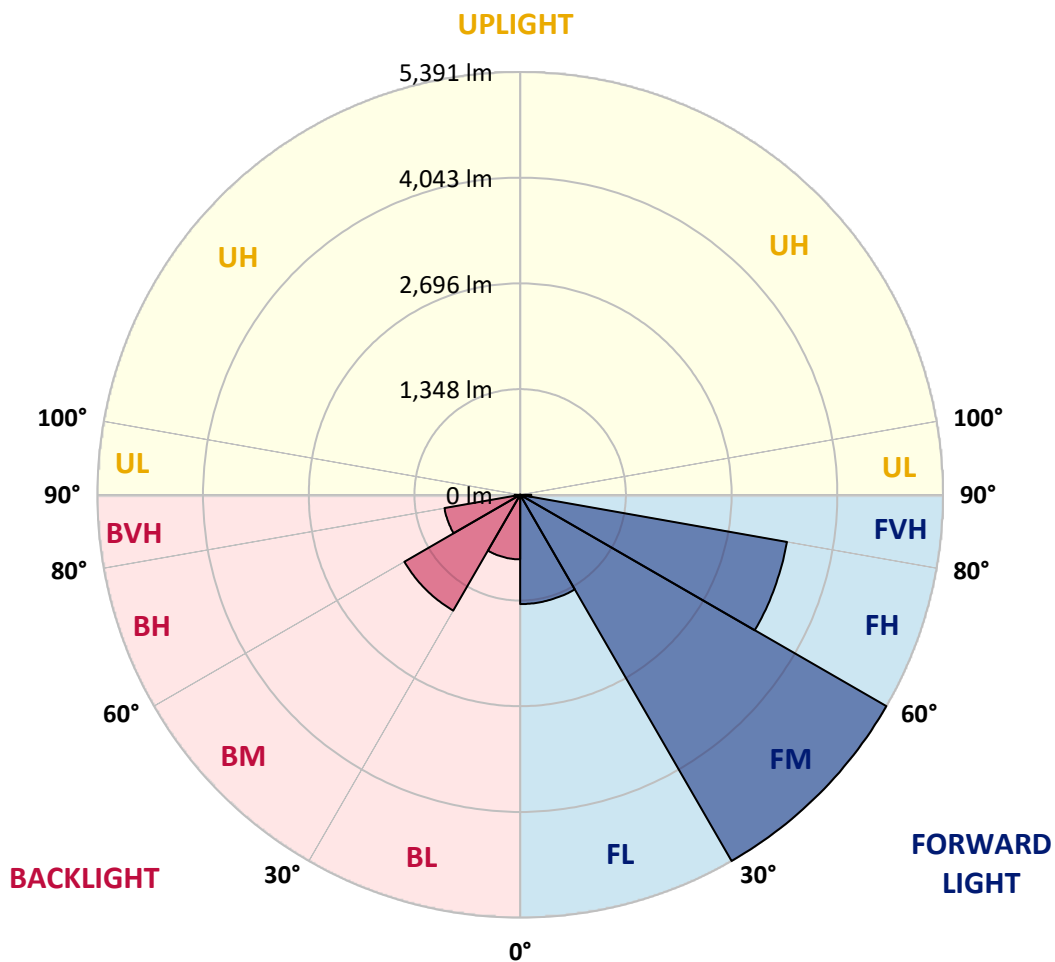
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.8	10.0			
FM	(30°-60°)	5391.0	38.6			
FH	(60°-80°)	3454.3	24.7			G2/5000
FVH	(80°-90°)	141.9	1.0			G2/225
BL	(0°-30°)	822.4	5.9	B2/1000		
BM	(30°-60°)	1704.8	12.2	B2/2500		
BH	(60°-80°)	979.7	7.0	B2/1000		G2/1000
BVH	(80°-90°)	71.2	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°	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2
2.5°	2709.3	2719.5	2708.1	2675.1	2658.7	2647.3	2613.0	2582.6	2558.5	2556.0	2533.2
5°	2813.3	2828.5	2809.5	2767.6	2751.2	2727.1	2689.1	2647.3	2604.2	2595.3	2549.7
7.5°	2945.1	2947.6	2937.5	2895.6	2861.4	2810.7	2744.8	2700.5	2651.1	2637.1	2564.9
10°	3056.6	3055.3	3042.6	3002.1	2967.9	2923.5	2831.0	2758.8	2700.5	2682.7	2582.6
12.5°	3163.0	3160.5	3147.8	3106.0	3062.9	3026.2	2956.5	2858.9	2780.3	2757.5	2633.3
15°	3294.8	3288.5	3268.2	3212.4	3178.2	3135.1	3084.4	2986.9	2896.9	2865.2	2706.8
17.5°	3396.2	3394.9	3379.7	3332.8	3292.3	3245.4	3198.5	3122.5	3024.9	2989.4	2779.0
20°	3454.5	3449.4	3445.6	3408.9	3398.7	3373.4	3306.2	3247.9	3150.3	3113.6	2860.1
22.5°	3516.6	3517.8	3519.1	3500.1	3529.2	3507.7	3458.3	3387.3	3288.5	3246.7	2974.2
25°	3530.5	3533.1	3558.4	3600.2	3635.7	3675.0	3639.5	3569.8	3463.4	3419.0	3130.1
27.5°	3491.2	3501.4	3577.4	3648.4	3773.8	3824.5	3818.2	3814.4	3705.4	3661.0	3344.2
30°	3526.7	3526.7	3578.7	3700.3	3858.7	3991.8	4020.9	4102.0	4069.1	4037.4	3704.1
32.5°	3420.3	3439.3	3531.8	3701.6	3952.5	4146.4	4278.2	4503.8	4634.3	4607.7	4213.6
35°	3220.0	3245.4	3381.0	3640.8	3999.4	4328.9	4564.6	4999.2	5251.4	5283.1	4826.9
37.5°	3065.4	3087.0	3256.8	3545.7	4017.1	4500.0	4895.3	5556.8	5882.5	5866.0	5346.5
40°	2876.6	2914.6	3085.7	3432.9	3975.3	4645.7	5254.0	6068.8	6469.2	6393.2	5840.7
42.5°	2706.8	2739.8	2883.0	3253.0	3917.0	4728.1	5578.4	6596.0	6947.0	6886.2	6308.3
45°	2526.9	2556.0	2689.1	3037.6	3781.4	4768.6	5882.5	7100.3	7405.7	7337.3	6741.7
47.5°	2320.3	2359.6	2518.0	2834.8	3582.5	4743.3	6104.3	7538.8	7841.6	7791.0	7100.3
50°	1799.5	1840.0	2254.4	2644.7	3306.2	4638.1	6303.2	7977.2	8235.8	8187.6	7417.1
52.5°	1633.5	1651.2	1780.5	2426.8	3018.6	4430.3	6427.4	8338.4	8619.7	8571.6	7716.2
55°	1532.1	1544.8	1617.0	1982.0	2774.0	4095.7	6442.6	8713.5	8942.9	8879.5	8034.3
57.5°	1428.2	1442.1	1521.9	1709.5	2528.1	3572.3	6281.7	9031.6	9205.2	9136.8	8338.4
60°	1340.7	1348.3	1426.9	1556.2	2250.6	3052.8	5867.3	9248.3	9447.2	9358.5	8636.2
62.5°	1260.9	1271.0	1328.1	1445.9	2017.4	2663.7	5289.4	9249.5	9580.3	9525.8	8787.0
65°	1157.0	1172.2	1228.0	1334.4	1828.6	2397.6	4691.3	9088.6	9604.4	9523.3	8779.4
67.5°	1036.6	1055.6	1106.3	1191.2	1577.7	2113.7	3857.5	8877.0	9134.2	9120.3	8417.0
70°	916.2	916.2	973.2	1041.7	1309.1	1809.6	3047.7	8123.0	8417.0	8438.5	7766.9
72.5°	773.0	775.5	819.9	879.5	1054.3	1485.2	2220.2	6944.4	7846.7	7585.7	7005.3
75°	648.8	646.3	691.9	741.3	857.9	1169.7	1448.4	5101.9	7171.3	7229.6	6165.1
77.5°	344.7	332.0	390.3	429.6	503.1	650.1	803.4	2558.5	5193.1	5307.2	4935.9
80°	97.6	98.8	258.5	288.9	330.7	321.9	372.6	975.8	2054.2	2315.2	2877.9
82.5°	58.3	67.2	147.0	172.3	129.3	83.6	141.9	542.4	1063.2	1191.2	1428.2
85°	30.4	32.9	52.0	64.6	49.4	41.8	43.1	228.1	517.0	525.9	570.3
87.5°	13.9	13.9	19.0	20.3	12.7	7.6	5.1	3.8	3.8	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°	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2	2552.2
2.5°	2515.5	2528.1	2506.6	2490.1	2477.4	2469.8	2461.0	2439.4	2445.8	2454.6	2453.4
5°	2528.1	2534.5	2496.5	2444.5	2396.3	2362.1	2339.3	2305.1	2305.1	2319.0	2319.0
7.5°	2539.5	2530.7	2453.4	2365.9	2311.4	2283.6	2246.8	2210.1	2203.7	2213.9	2215.1
10°	2545.9	2507.9	2400.1	2319.0	2248.1	2191.0	2144.2	2102.3	2101.1	2115.0	2117.5
12.5°	2573.8	2500.3	2396.3	2284.8	2178.4	2117.5	2061.8	2014.9	1998.4	1999.7	2002.2
15°	2616.8	2530.7	2391.3	2237.9	2122.6	2041.5	1960.4	1900.9	1885.6	1905.9	1913.5
17.5°	2668.8	2580.1	2367.2	2194.9	2054.2	1956.6	1875.5	1822.3	1774.1	1752.6	1748.8
20°	2737.2	2621.9	2379.9	2131.5	1988.3	1857.8	1756.4	1691.8	1651.2	1648.7	1646.1
22.5°	2827.2	2668.8	2382.4	2089.7	1884.4	1748.8	1623.3	1586.6	1514.3	1487.7	1499.1
25°	2946.3	2739.8	2376.1	2045.3	1804.5	1622.1	1471.3	1404.1	1377.5	1347.1	1349.6
27.5°	3099.7	2852.5	2392.5	1987.0	1674.0	1467.5	1298.9	1226.7	1186.1	1160.8	1164.6
30°	3411.4	3023.6	2391.3	1931.3	1553.6	1307.8	1117.7	1069.5	1029.0	1006.2	1017.6
32.5°	3854.9	3394.9	2444.5	1856.5	1416.8	1093.6	965.6	911.1	876.9	851.6	857.9
35°	4403.6	3799.2	2581.4	1755.1	1260.9	930.2	842.7	775.5	733.7	723.6	719.8
37.5°	4913.1	4156.5	2710.6	1688.0	1082.2	840.2	729.9	662.8	626.0	638.7	638.7
40°	5368.0	4630.5	2856.3	1580.2	920.0	737.5	604.5	574.1	555.0	576.6	584.2
42.5°	5711.4	5085.4	3054.0	1438.3	788.2	615.9	517.0	538.6	546.2	561.4	557.6
45°	6137.2	5345.2	3249.2	1306.5	672.9	513.2	499.3	543.6	561.4	575.3	569.0
47.5°	6528.8	5546.7	3209.9	1063.2	566.5	496.8	508.2	543.6	574.1	596.9	593.1
50°	6865.9	5798.9	3135.1	826.2	543.6	512.0	517.0	529.7	575.3	590.5	590.5
52.5°	7076.2	6048.5	3042.6	667.8	560.1	531.0	522.1	520.8	551.2	562.7	552.5
55°	7329.7	6307.0	2803.1	619.7	566.5	543.6	536.0	524.6	533.5	524.6	529.7
57.5°	7611.0	6561.7	2435.6	605.7	562.7	539.8	580.4	519.6	514.5	482.8	475.2
60°	7858.1	6661.9	2113.7	574.1	542.4	529.7	539.8	513.2	487.9	446.1	429.6
62.5°	7950.6	6653.0	1786.8	541.1	512.0	514.5	513.2	494.2	471.4	429.6	419.5
65°	7839.1	6450.2	1448.4	501.8	487.9	498.0	485.4	457.5	419.5	385.2	376.4
67.5°	7461.5	5933.2	1075.9	449.9	448.6	467.6	458.7	420.7	378.9	352.3	352.3
70°	6739.2	5297.0	697.0	373.8	401.7	434.7	434.7	394.1	339.6	316.8	323.1
72.5°	5948.4	4558.2	451.1	277.5	316.8	394.1	391.6	363.7	313.0	283.9	285.1
75°	5152.6	3616.7	291.5	191.4	205.3	335.8	347.2	296.5	243.3	207.8	201.5
77.5°	3917.0	2720.8	185.0	111.5	130.5	205.3	263.6	247.1	248.4	302.9	300.3
80°	2409.0	1639.8	134.3	54.5	64.6	134.3	212.9	235.7	330.7	218.0	200.2
82.5°	1206.4	766.7	71.0	32.9	36.7	59.6	126.7	282.6	240.8	144.5	136.9
85°	451.1	206.6	21.5	16.5	20.3	30.4	52.0	258.5	153.3	115.3	112.8
87.5°	2.5	3.8	3.8	5.1	7.6	8.9	19.0	122.9	77.3	55.8	53.2
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)