

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: P233491

Luminaire Tested: **VERD-C02H-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233491
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-C02H-D-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14869 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

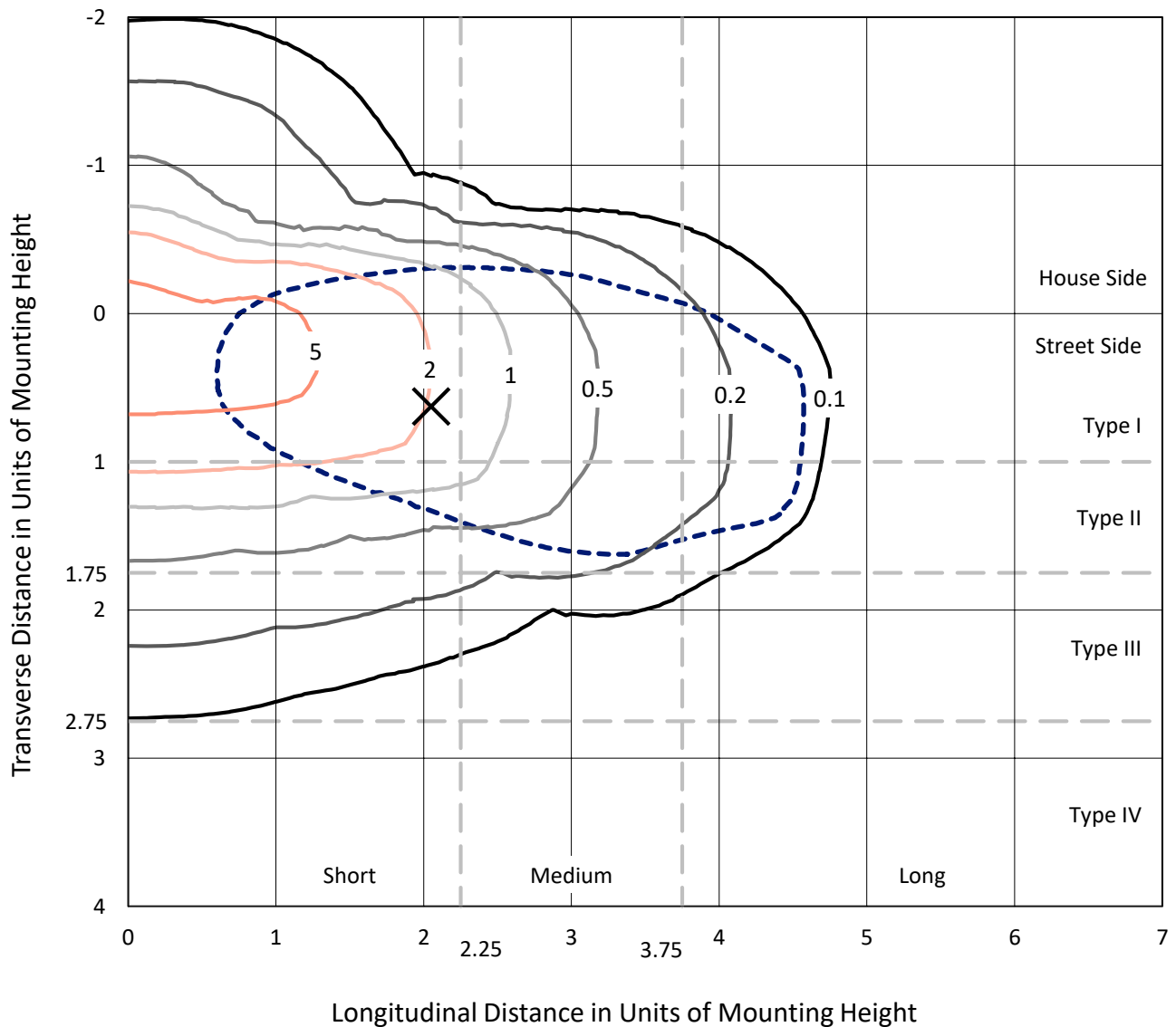
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

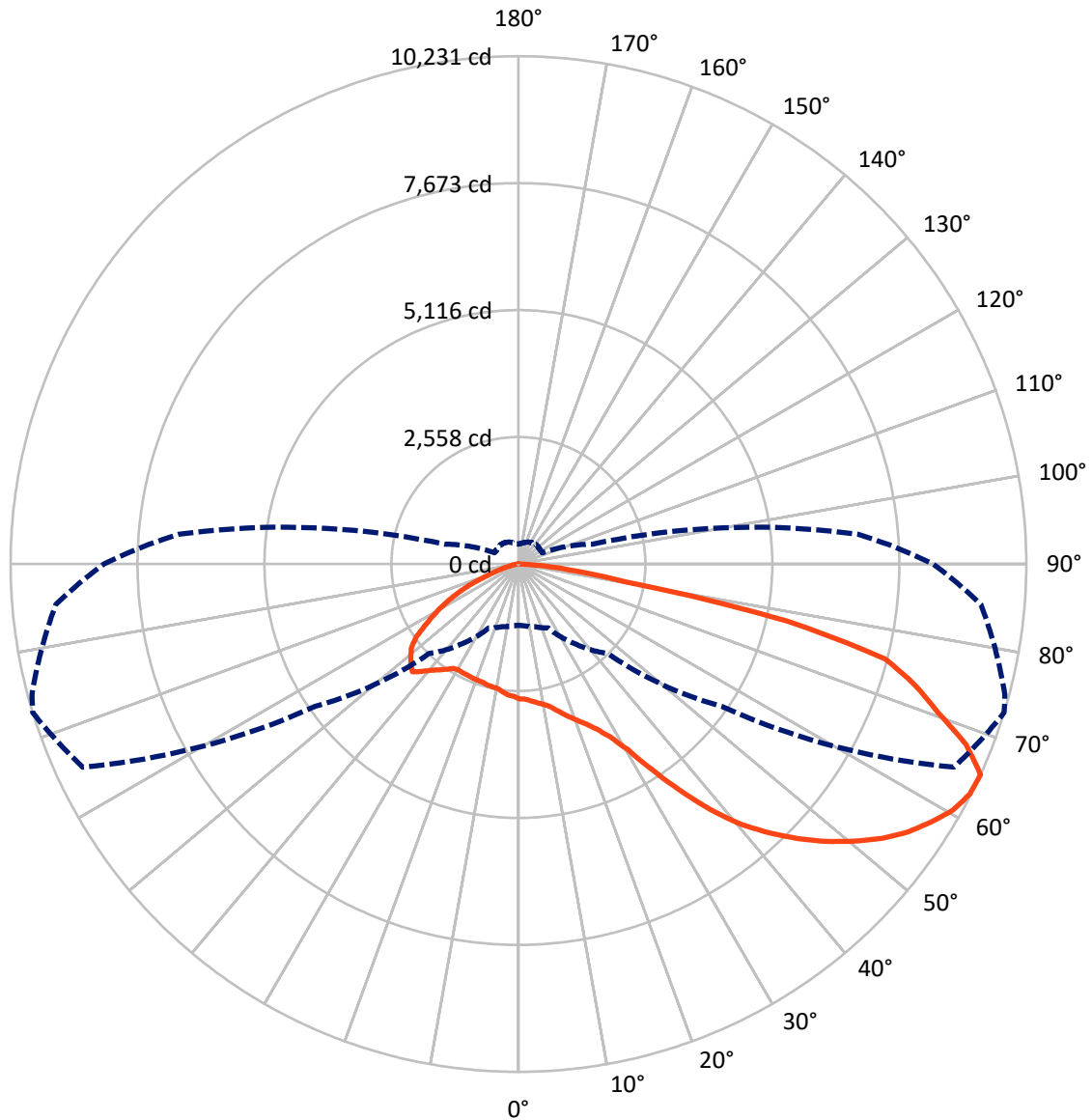


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

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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	3811.6	0.0	3811.6
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	11057.4	0.0	11057.4
	% Fixture	74.4	0.0	74.4
Total	Lumens	14869.0	0.0	14869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	1.7
10°-20°	784.5	5.3
20°-30°	1315.9	8.8
30°-40°	1929.7	13.0
40°-50°	2608.0	17.5
50°-60°	3021.2	20.3
60°-70°	2951.2	19.8
70°-80°	1772.2	11.9
80°-90°	226.9	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°	14869.0	100.0
0°-180°	14869.0	100.0



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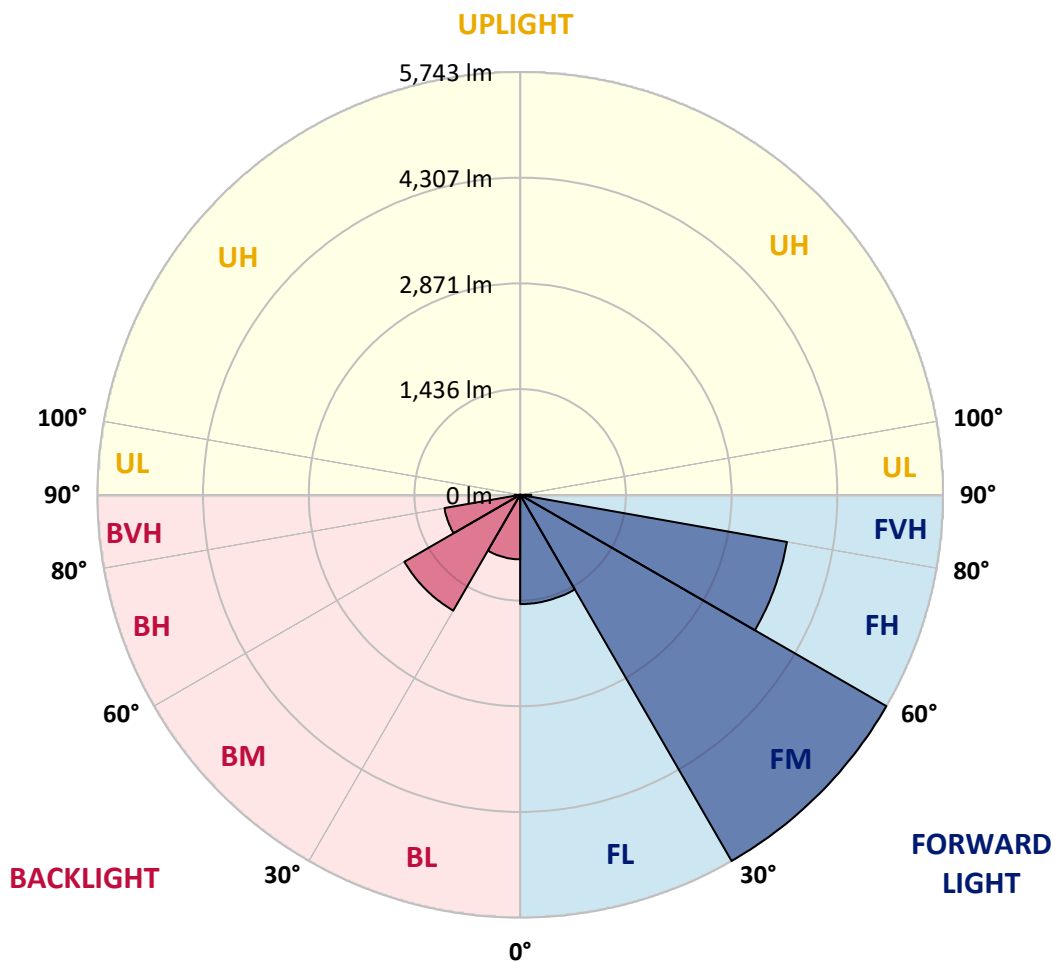
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.7	10.0			
FM (30°-60°)	5742.9	38.6			
FH (60°-80°)	3679.8	24.7			G2/5000
FVH (80°-90°)	151.1	1.0			G2/225
BL (0°-30°)	876.1	5.9	B2/1000		
BM (30°-60°)	1816.1	12.2	B2/2500		
BH (60°-80°)	1043.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	75.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8
2.5°	2886.2	2897.0	2884.8	2849.7	2832.2	2820.0	2783.6	2751.2	2725.5	2722.8	2698.5
5°	2996.9	3013.1	2992.8	2948.3	2930.7	2905.1	2864.6	2820.0	2774.1	2764.7	2716.1
7.5°	3137.3	3140.0	3129.2	3084.6	3048.2	2994.2	2924.0	2876.7	2824.1	2809.2	2732.3
10°	3256.1	3254.7	3241.2	3198.0	3161.6	3114.3	3015.8	2938.8	2876.7	2857.8	2751.2
12.5°	3369.5	3366.8	3353.3	3308.7	3262.8	3223.7	3149.4	3045.5	2961.8	2937.5	2805.2
15°	3509.9	3503.1	3481.5	3422.1	3385.7	3339.8	3285.8	3181.8	3086.0	3052.2	2883.5
17.5°	3617.8	3616.5	3600.3	3550.4	3507.2	3457.2	3407.3	3326.3	3222.3	3184.5	2960.4
20°	3679.9	3674.5	3670.5	3631.3	3620.5	3593.6	3522.0	3459.9	3356.0	3316.8	3046.8
22.5°	3746.1	3747.4	3748.8	3728.5	3759.6	3736.6	3684.0	3608.4	3503.1	3458.6	3168.3
25°	3760.9	3763.6	3790.6	3835.2	3873.0	3914.8	3877.0	3802.8	3689.4	3642.1	3334.4
27.5°	3719.1	3729.9	3810.9	3886.5	4020.1	4074.1	4067.4	4063.3	3947.2	3900.0	3562.5
30°	3756.9	3756.9	3812.2	3941.8	4110.6	4252.3	4283.4	4369.8	4334.7	4300.9	3945.9
32.5°	3643.5	3663.7	3762.3	3943.2	4210.5	4417.0	4557.4	4797.7	4936.7	4908.4	4488.6
35°	3430.2	3457.2	3601.6	3878.4	4260.4	4611.4	4862.5	5325.5	5594.2	5627.9	5141.9
37.5°	3265.5	3288.5	3469.4	3777.1	4279.3	4793.6	5214.8	5919.5	6266.4	6248.9	5695.4
40°	3064.4	3104.9	3287.1	3657.0	4234.8	4948.9	5596.9	6464.9	6891.5	6810.5	6221.9
42.5°	2883.5	2918.6	3071.1	3465.3	4172.7	5036.6	5942.5	7026.5	7400.4	7335.6	6720.0
45°	2691.8	2722.8	2864.6	3235.8	4028.2	5079.8	6266.4	7563.7	7889.1	7816.2	7181.7
47.5°	2471.7	2513.6	2682.3	3019.8	3816.3	5052.8	6502.7	8030.8	8353.5	8299.5	7563.7
50°	1916.9	1960.1	2401.5	2817.3	3522.0	4940.8	6714.6	8497.9	8773.3	8722.0	7901.2
52.5°	1740.1	1759.0	1896.7	2585.1	3215.6	4719.4	6846.9	8882.6	9182.3	9131.0	8219.8
55°	1632.1	1645.6	1722.5	2111.3	2955.0	4363.0	6863.1	9282.2	9526.6	9459.1	8558.6
57.5°	1521.4	1536.2	1621.3	1821.1	2693.1	3805.5	6691.7	9621.0	9806.0	9733.1	8882.6
60°	1428.2	1436.3	1520.0	1657.7	2397.5	3252.0	6250.2	9851.9	10063.8	9969.3	9199.9
62.5°	1343.2	1354.0	1414.7	1540.3	2149.1	2837.6	5634.7	9853.2	10205.6	10147.5	9360.5
65°	1232.5	1248.7	1308.1	1421.5	1948.0	2554.1	4997.5	9681.8	10231.2	10144.8	9352.4
67.5°	1104.3	1124.5	1178.5	1268.9	1680.7	2251.7	4109.2	9456.4	9730.4	9715.5	8966.3
70°	976.0	976.0	1036.8	1109.7	1394.5	1927.7	3246.6	8653.1	8966.3	8989.3	8273.8
72.5°	823.5	826.2	873.4	936.9	1123.2	1582.1	2365.1	7397.7	8358.9	8080.8	7462.5
75°	691.2	688.5	737.1	789.7	913.9	1246.0	1543.0	5434.9	7639.3	7701.4	6567.5
77.5°	367.2	353.7	415.8	457.6	535.9	692.5	855.9	2725.5	5532.1	5653.6	5258.0
80°	103.9	105.3	275.4	307.8	352.3	342.9	396.9	1039.5	2188.3	2466.3	3065.7
82.5°	62.1	71.5	156.6	183.6	137.7	89.1	151.2	577.8	1132.6	1268.9	1521.4
85°	32.4	35.1	55.3	68.8	52.6	44.5	45.9	243.0	550.8	560.2	607.5
87.5°	14.8	14.8	20.2	21.6	13.5	8.1	5.4	4.0	4.0	2.7	2.7
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°	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8	2718.8
2.5°	2679.6	2693.1	2670.2	2652.6	2639.1	2631.0	2621.6	2598.6	2605.4	2614.8	2613.5
5°	2693.1	2699.9	2659.4	2604.0	2552.7	2516.3	2492.0	2455.5	2455.5	2470.4	2470.4
7.5°	2705.3	2695.8	2613.5	2520.3	2462.3	2432.6	2393.5	2354.3	2347.6	2358.4	2359.7
10°	2712.0	2671.5	2556.8	2470.4	2394.8	2334.1	2284.1	2239.6	2238.2	2253.1	2255.8
12.5°	2741.7	2663.4	2552.7	2433.9	2320.6	2255.8	2196.4	2146.4	2128.9	2130.2	2132.9
15°	2787.6	2695.8	2547.3	2384.0	2261.2	2174.8	2088.4	2024.9	2008.7	2030.3	2038.4
17.5°	2843.0	2748.5	2521.7	2338.1	2188.3	2084.3	1997.9	1941.2	1889.9	1867.0	1862.9
20°	2915.9	2793.0	2535.2	2270.6	2118.1	1979.0	1871.0	1802.2	1759.0	1756.3	1753.6
22.5°	3011.7	2843.0	2537.9	2226.1	2007.4	1862.9	1729.3	1690.1	1613.2	1584.8	1597.0
25°	3138.6	2918.6	2531.1	2178.8	1922.3	1727.9	1567.3	1495.7	1467.4	1435.0	1437.7
27.5°	3302.0	3038.7	2548.7	2116.7	1783.3	1563.2	1383.7	1306.7	1263.5	1236.5	1240.6
30°	3634.0	3221.0	2547.3	2057.3	1655.0	1393.1	1190.7	1139.4	1096.2	1071.9	1084.0
32.5°	4106.5	3616.5	2604.0	1977.7	1509.2	1165.0	1028.7	970.6	934.2	907.2	913.9
35°	4691.1	4047.1	2749.8	1869.7	1343.2	990.9	897.7	826.2	781.6	770.8	766.8
37.5°	5233.7	4427.8	2887.5	1798.1	1152.9	895.0	777.6	706.0	666.9	680.4	680.4
40°	5718.4	4932.7	3042.8	1683.4	980.1	785.7	643.9	611.5	591.3	614.2	622.3
42.5°	6084.2	5417.3	3253.4	1532.2	839.7	656.1	550.8	573.7	581.8	598.0	594.0
45°	6537.8	5694.1	3461.3	1391.8	716.8	546.7	531.9	579.1	598.0	612.9	606.1
47.5°	6954.9	5908.7	3419.4	1132.6	603.4	529.2	541.3	579.1	611.5	635.8	631.8
50°	7314.0	6177.3	3339.8	880.2	579.1	545.4	550.8	564.3	612.9	629.1	629.1
52.5°	7538.1	6443.3	3241.2	711.4	596.7	565.6	556.2	554.8	587.2	599.4	588.6
55°	7808.1	6718.7	2986.1	660.1	603.4	579.1	571.0	558.9	568.3	558.9	564.3
57.5°	8107.8	6990.0	2594.6	645.3	599.4	575.1	618.3	553.5	548.1	514.3	506.2
60°	8371.0	7096.7	2251.7	611.5	577.8	564.3	575.1	546.7	519.7	475.2	457.6
62.5°	8469.5	7087.2	1903.4	576.4	545.4	548.1	546.7	526.5	502.2	457.6	446.8
65°	8350.8	6871.2	1543.0	534.6	519.7	530.5	517.0	487.3	446.8	410.4	400.9
67.5°	7948.5	6320.4	1146.1	479.2	477.9	498.1	488.7	448.2	403.6	375.3	375.3
70°	7179.0	5642.8	742.5	398.2	427.9	463.0	463.0	419.8	361.8	337.5	344.2
72.5°	6336.6	4855.7	480.6	295.6	337.5	419.8	417.1	387.4	333.4	302.4	303.7
75°	5488.9	3852.7	310.5	203.8	218.7	357.7	369.9	315.9	259.2	221.4	214.6
77.5°	4172.7	2898.3	197.1	118.8	139.0	218.7	280.8	263.2	264.6	322.6	319.9
80°	2566.2	1746.8	143.1	58.0	68.8	143.1	226.8	251.1	352.3	232.2	213.3
82.5°	1285.1	816.7	75.6	35.1	39.1	63.4	135.0	301.0	256.5	153.9	145.8
85°	480.6	220.0	22.9	17.5	21.6	32.4	55.3	275.4	163.3	122.8	120.1
87.5°	2.7	4.0	4.0	5.4	8.1	9.4	20.2	130.9	82.3	59.4	56.7
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)