

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: P233919

Luminaire Tested: **VERD-G-C02-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T2-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1175mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15100 lumens
Efficiency: N/A
Efficacy: 109.4 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): 138
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

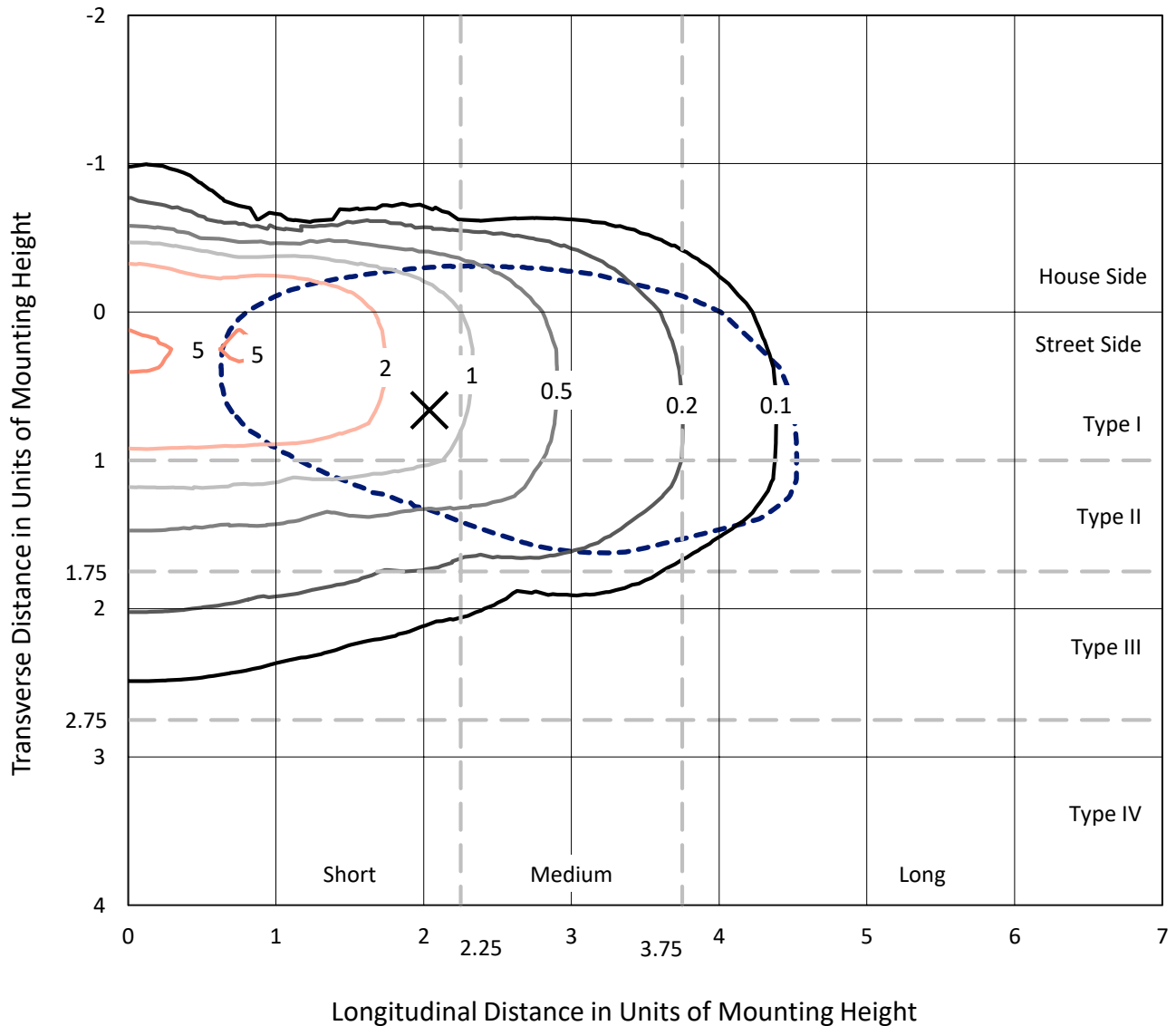


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

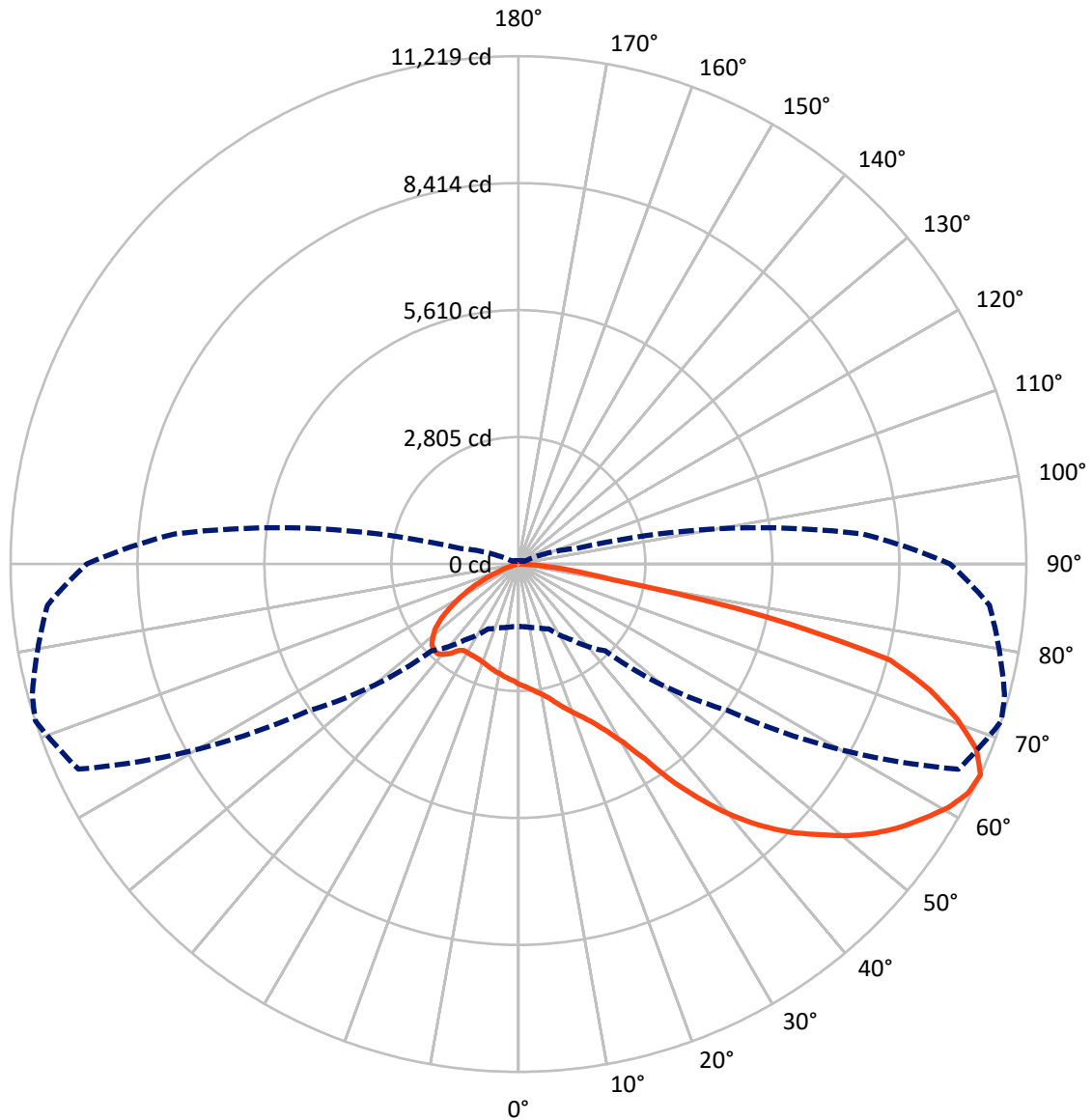


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3137.9	0.0	3137.9
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	11962.2	0.0	11962.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	15100.0	0.0	15100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.7
10°-20°	774.2	5.1
20°-30°	1293.8	8.6
30°-40°	1913.8	12.7
40°-50°	2645.8	17.5
50°-60°	3096.1	20.5
60°-70°	3077.4	20.4
70°-80°	1843.1	12.2
80°-90°	200.6	1.3
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°	15100.0	100.0
0°-180°	15100.0	100.0

Coefficient of Utilization



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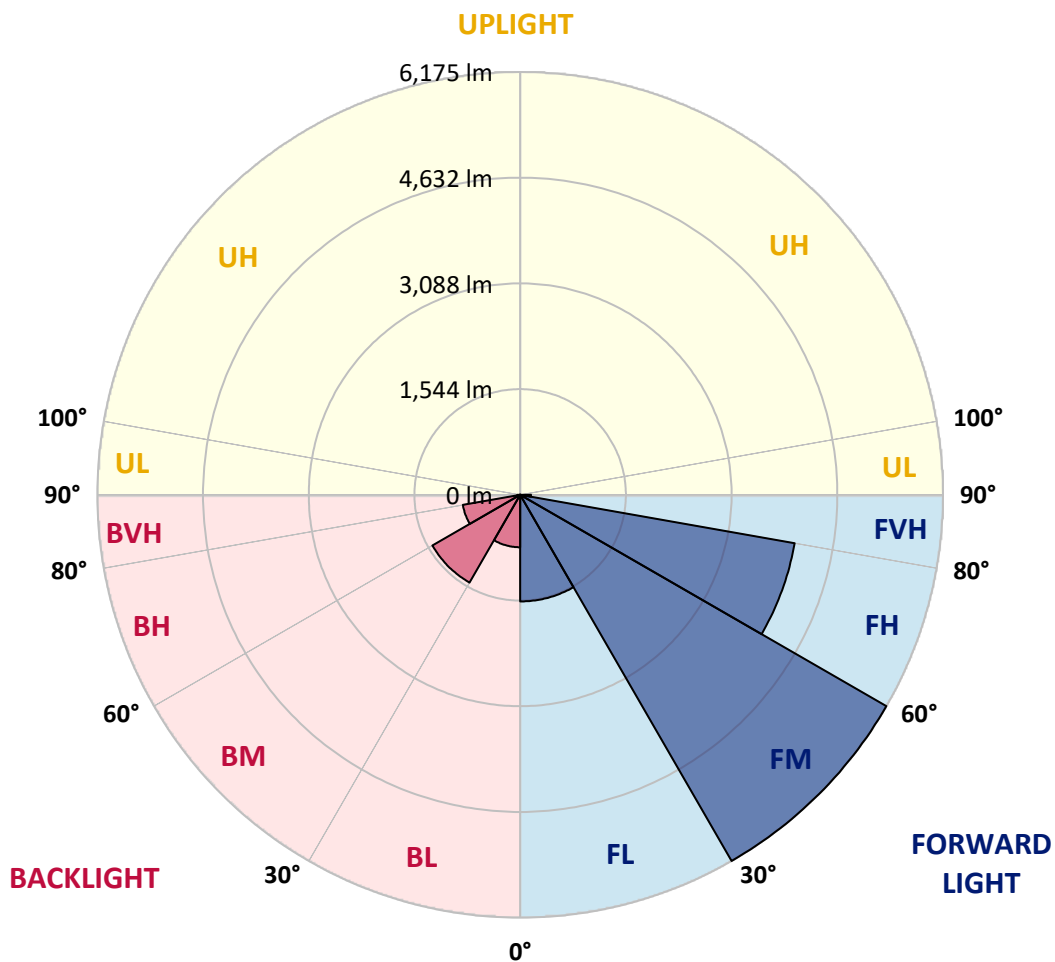
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.1	10.3			
FM (30°-60°)	6175.5	40.9			
FH (60°-80°)	4071.0	27.0			G2/5000
FVH (80°-90°)	158.6	1.1			G2/225
BL (0°-30°)	766.0	5.1	B2/1000		
BM (30°-60°)	1480.2	9.8	B2/2500		
BH (60°-80°)	849.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	42.0	0.3			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°	72°	75°	85°
0°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	2885.5	2887.9	2889.2	2843.6	2818.9	2790.6	2763.5	2733.9	2703.1	2692.0	2651.4
5°	3062.9	3065.3	3058.0	3016.1	2970.5	2928.6	2876.8	2823.9	2772.1	2757.3	2688.3
7.5°	3234.1	3232.9	3226.7	3173.8	3117.1	3061.6	2989.0	2917.5	2849.7	2826.3	2724.1
10°	3375.8	3378.3	3382.0	3325.3	3269.9	3203.3	3114.6	3008.7	2931.1	2894.1	2761.0
12.5°	3531.1	3523.7	3533.5	3478.1	3401.7	3341.3	3261.2	3136.8	3044.4	2997.6	2832.5
15°	3708.5	3708.5	3694.9	3649.3	3571.7	3497.8	3417.7	3303.1	3192.2	3120.8	2928.6
17.5°	3830.4	3823.1	3819.4	3779.9	3713.4	3649.3	3587.7	3470.7	3349.9	3262.5	3018.5
20°	3882.2	3884.7	3901.9	3873.6	3837.8	3799.6	3731.9	3640.7	3507.7	3414.0	3114.6
22.5°	3982.0	3984.5	4005.4	3985.7	3975.8	3966.0	3903.1	3823.1	3681.4	3591.4	3235.4
25°	3988.2	3990.6	4047.3	4079.3	4129.8	4153.2	4110.1	4041.1	3897.0	3809.5	3415.2
27.5°	4006.6	4014.0	4071.9	4160.6	4293.7	4340.5	4315.9	4313.4	4191.4	4099.0	3649.3
30°	3990.6	3998.0	4081.8	4205.0	4389.8	4527.8	4556.1	4628.8	4579.5	4510.5	3974.6
32.5°	3877.3	3904.4	4004.2	4200.1	4472.3	4722.5	4813.6	5062.5	5136.4	5143.8	4627.6
35°	3671.5	3686.3	3867.4	4143.4	4527.8	4906.0	5157.4	5616.9	5929.9	5916.3	5350.8
37.5°	3515.0	3520.0	3706.0	4047.3	4558.6	5103.2	5549.2	6284.7	6644.5	6660.5	6003.8
40°	3314.2	3349.9	3528.6	3931.5	4541.3	5269.5	5938.5	6906.9	7325.8	7308.5	6576.7
42.5°	3126.9	3147.9	3325.3	3750.4	4478.5	5396.4	6320.4	7509.4	7920.9	7864.2	7126.2
45°	2932.3	2968.0	3130.6	3516.3	4354.1	5467.8	6666.6	8081.0	8458.0	8387.8	7610.4
47.5°	2737.6	2763.5	2936.0	3301.9	4120.0	5465.4	7006.7	8617.0	8934.8	8885.6	8068.7
50°	2083.4	2140.1	2593.5	3077.7	3791.0	5361.9	7281.4	9125.8	9435.1	9358.7	8515.9
52.5°	1909.7	1928.2	2055.1	2817.7	3439.9	5115.5	7495.8	9603.8	9876.1	9788.7	8937.3
55°	1805.0	1827.1	1878.9	2290.4	3151.6	4710.1	7584.5	10049.8	10253.1	10164.4	9313.1
57.5°	1665.7	1687.9	1790.2	1972.5	2851.0	4092.9	7453.9	10445.3	10587.0	10489.7	9661.8
60°	1569.6	1579.5	1678.1	1821.0	2522.0	3469.5	7017.8	10766.9	10914.7	10798.9	10006.7
62.5°	1480.9	1492.0	1562.2	1703.9	2249.7	3012.4	6338.9	10845.8	11147.6	11057.7	10322.1
65°	1378.7	1388.5	1452.6	1578.3	2039.0	2714.2	5639.1	10725.0	11219.1	11116.8	10444.1
67.5°	1243.1	1256.7	1307.2	1420.6	1763.1	2376.6	4598.0	10502.0	10906.1	10800.2	10194.0
70°	1075.6	1081.7	1142.1	1244.4	1489.6	2062.5	3606.2	9708.6	10286.4	10169.4	9489.3
72.5°	868.6	879.7	945.0	1052.2	1223.4	1699.0	2576.2	8389.0	9501.6	9457.2	8463.0
75°	580.3	623.4	778.7	887.1	1011.5	1326.9	1729.8	5888.0	8482.7	8517.2	7229.7
77.5°	110.9	114.6	326.5	485.4	591.4	810.7	1070.7	2892.9	5591.1	6196.0	5451.8
80°	72.7	78.9	139.2	340.0	391.8	401.6	549.5	1267.8	2106.8	2664.9	3144.2
82.5°	38.2	45.6	83.8	197.1	179.9	99.8	179.9	654.2	1168.0	1341.7	1585.7
85°	16.0	18.5	40.7	67.8	50.5	41.9	41.9	261.2	517.5	598.8	622.2
87.5°	2.5	2.5	8.6	12.3	7.4	4.9	3.7	1.2	1.2	1.2	1.2
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°	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2	2661.2
2.5°	2651.4	2629.2	2598.4	2562.7	2536.8	2523.2	2512.2	2482.6	2472.7	2492.4	2487.5
5°	2662.5	2636.6	2566.4	2508.5	2450.6	2414.8	2375.4	2323.7	2301.5	2313.8	2310.1
7.5°	2669.9	2637.8	2533.1	2443.2	2345.8	2278.1	2226.3	2158.6	2125.3	2137.6	2122.8
10°	2680.9	2632.9	2493.7	2374.2	2247.3	2148.7	2072.3	1993.5	1959.0	1968.8	1956.5
12.5°	2727.8	2650.1	2475.2	2315.0	2159.8	2036.6	1940.5	1856.7	1807.4	1817.3	1807.4
15°	2804.2	2684.6	2448.1	2239.9	2067.4	1926.9	1816.0	1719.9	1663.3	1676.8	1664.5
17.5°	2884.2	2726.5	2423.4	2156.1	1968.8	1812.3	1696.5	1615.2	1524.0	1532.7	1514.2
20°	2953.2	2766.0	2409.9	2077.2	1876.4	1690.4	1551.2	1495.7	1370.0	1338.0	1317.1
22.5°	3049.3	2823.9	2398.8	2013.2	1761.8	1568.4	1403.3	1299.8	1164.3	1096.5	1090.4
25°	3186.1	2910.1	2397.6	1962.7	1658.3	1440.3	1209.9	1036.2	916.6	836.6	825.5
27.5°	3359.8	3024.7	2411.1	1912.1	1554.8	1278.9	972.1	779.9	672.7	611.1	600.0
30°	3609.9	3175.0	2428.4	1854.2	1439.0	1069.4	724.4	574.1	485.4	441.1	432.5
32.5°	4145.9	3560.6	2454.2	1793.9	1299.8	805.8	526.1	416.4	348.7	321.6	335.1
35°	4791.5	4084.3	2570.1	1716.2	1117.5	574.1	379.5	296.9	250.1	256.3	263.7
37.5°	5355.7	4584.5	2830.0	1616.5	873.5	421.4	261.2	221.8	221.8	241.5	258.7
40°	5888.0	5035.4	3062.9	1480.9	612.3	290.8	202.1	205.8	202.1	214.4	210.7
42.5°	6390.7	5462.9	3245.2	1319.5	400.4	200.8	183.6	191.0	184.8	187.3	176.2
45°	6866.2	5905.2	3346.3	1081.7	266.1	175.0	168.8	181.1	179.9	177.4	166.3
47.5°	7306.1	6294.6	3396.8	779.9	183.6	157.7	158.9	167.6	171.3	168.8	162.6
50°	7737.3	6682.7	3351.2	466.9	165.1	144.2	152.8	152.8	160.2	146.6	141.7
52.5°	8150.0	7072.0	3207.0	283.4	151.5	134.3	141.7	139.2	142.9	129.4	126.9
55°	8538.1	7361.5	2922.4	223.0	142.9	128.1	129.4	131.8	125.7	110.9	115.8
57.5°	8948.4	7607.9	2525.7	202.1	139.2	119.5	122.0	120.7	110.9	97.3	97.3
60°	9286.0	7786.6	2127.8	183.6	136.8	117.0	108.4	106.0	91.2	83.8	82.5
62.5°	9518.8	7837.1	1739.7	163.9	129.4	108.4	97.3	89.9	76.4	69.0	66.5
65°	9537.3	7621.5	1324.5	147.8	122.0	101.0	89.9	73.9	60.4	54.2	51.7
67.5°	9159.1	7022.7	933.9	135.5	109.7	93.6	78.9	59.1	48.1	43.1	41.9
70°	8368.1	6278.5	571.7	118.3	99.8	87.5	81.3	48.1	39.4	33.3	33.3
72.5°	7343.0	5438.3	335.1	101.0	83.8	70.2	54.2	40.7	33.3	25.9	25.9
75°	6293.3	4317.1	205.8	76.4	61.6	55.4	41.9	34.5	27.1	19.7	19.7
77.5°	4531.5	3187.3	160.2	49.3	38.2	39.4	30.8	27.1	22.2	16.0	16.0
80°	2780.7	1940.5	114.6	33.3	22.2	22.2	22.2	20.9	16.0	13.6	12.3
82.5°	1409.5	887.1	56.7	19.7	13.6	13.6	13.6	14.8	12.3	9.9	9.9
85°	495.3	248.9	17.2	9.9	8.6	8.6	7.4	7.4	6.2	4.9	4.9
87.5°	1.2	2.5	2.5	3.7	4.9	4.9	3.7	2.5	1.2	0.0	0.0
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)