

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: P510257

Luminaire Tested: **VERD-M-CA4-240-722-U-T4**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-722-U-T4  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1090mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27212 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

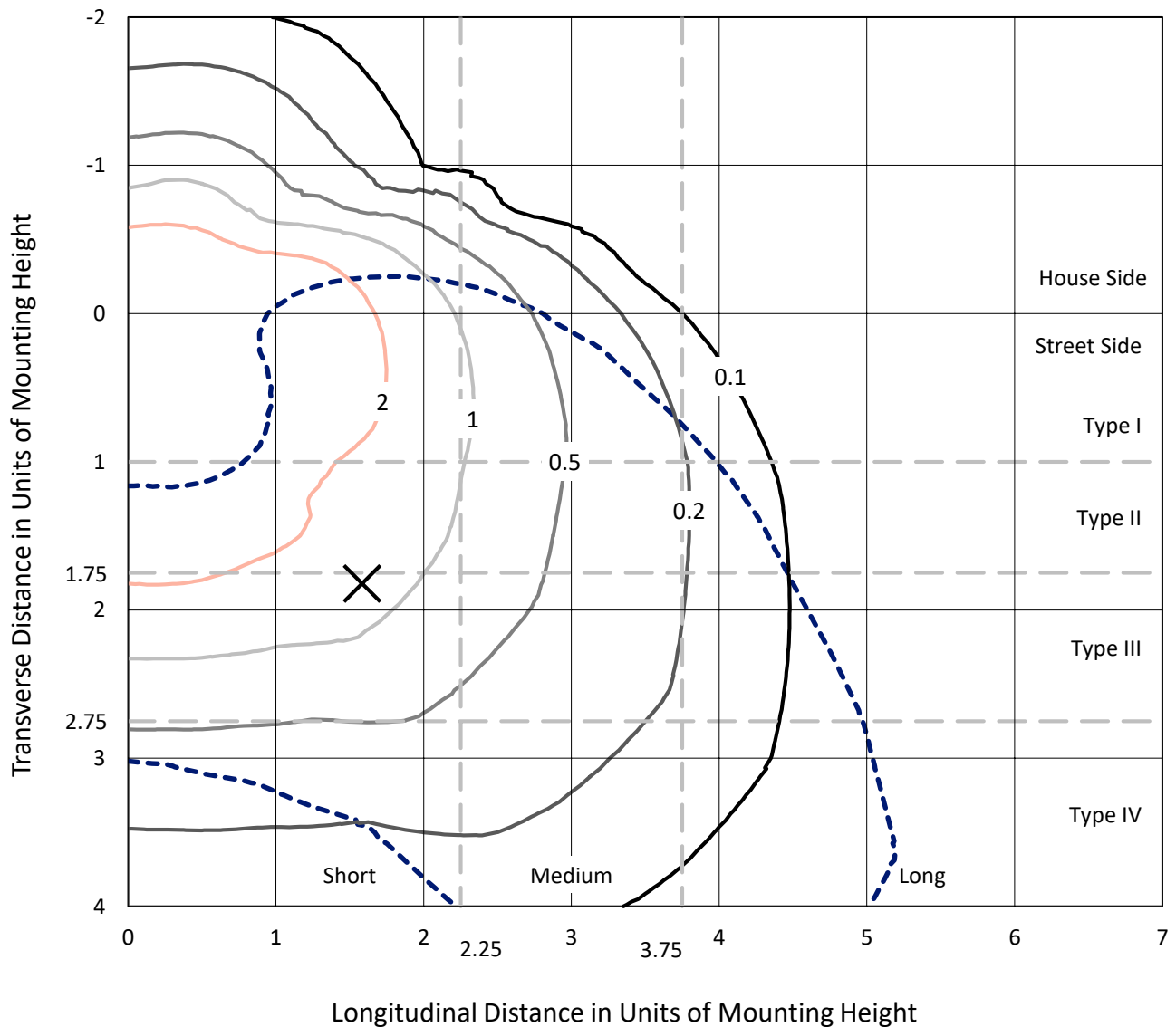
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

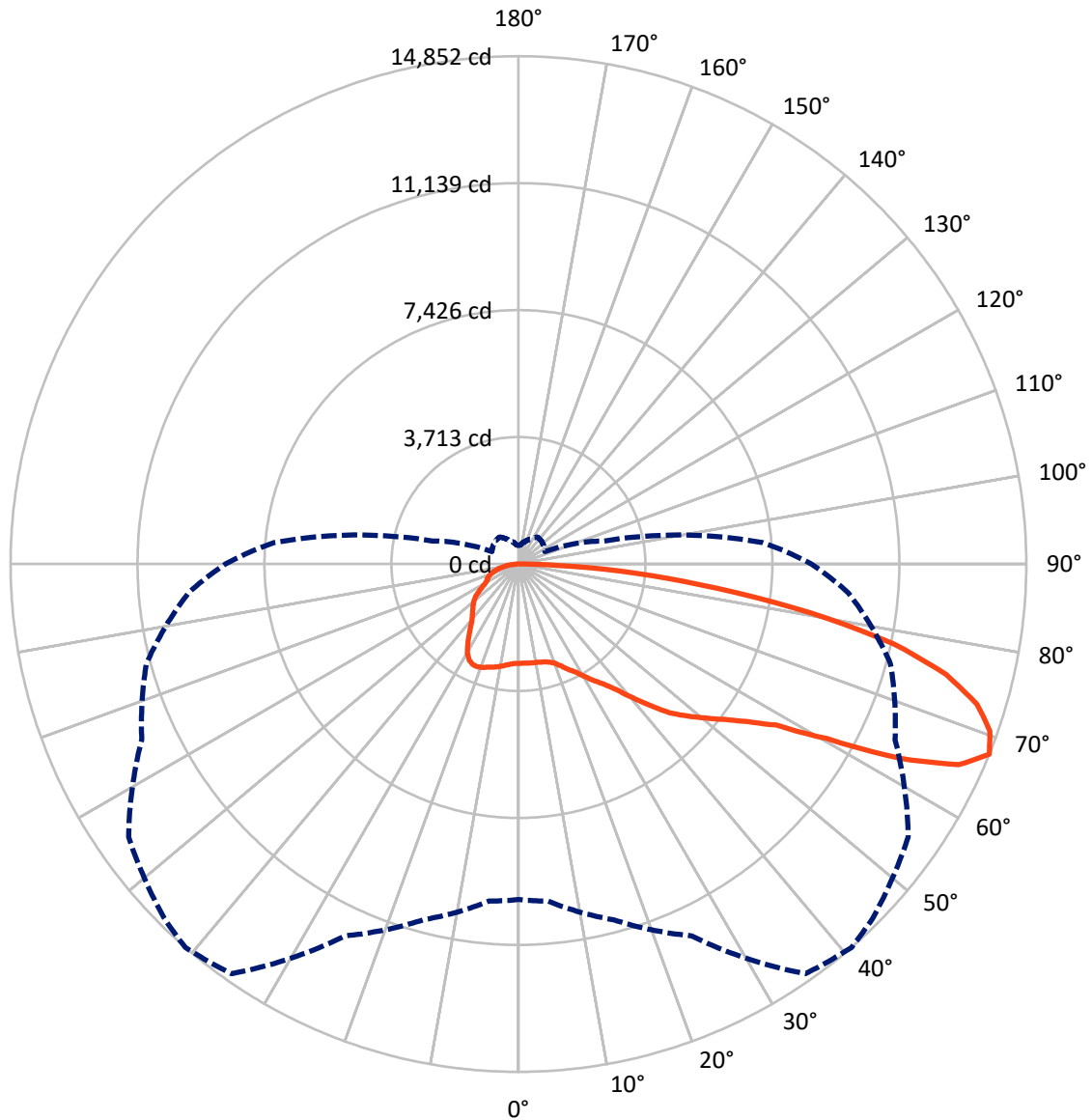
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6157.9	0.0	6157.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	21054.1	0.0	21054.1
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	27212.0	0.0	27212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.7	1.0
10°-20°	870.7	3.2
20°-30°	1557.1	5.7
30°-40°	2441.5	9.0
40°-50°	3786.1	13.9
50°-60°	5337.4	19.6
60°-70°	6804.0	25.0
70°-80°	5091.6	18.7
80°-90°	1042.8	3.8
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°	27212.0	100.0
0°-180°	27212.0	100.0

**Coefficient of Utilization**



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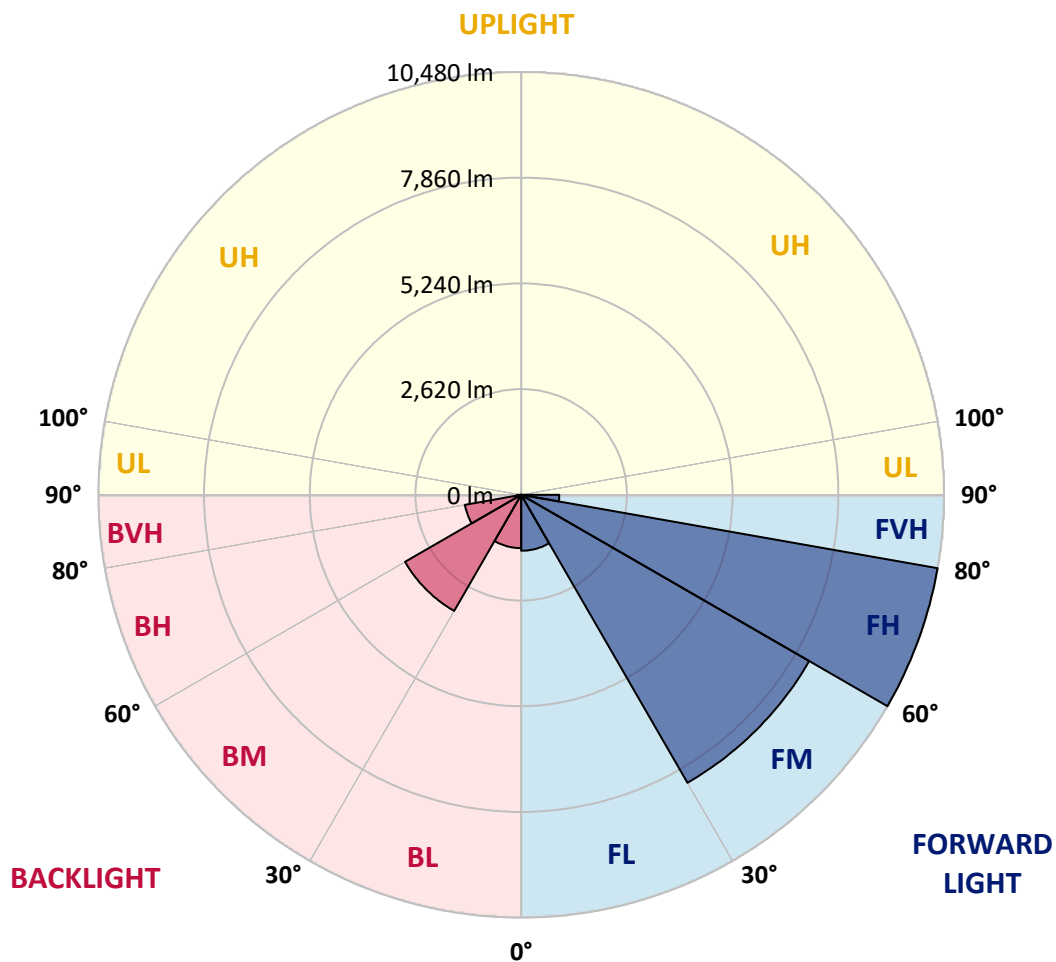
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.5	5.1			
FM	(30°-60°)	8242.3	30.3			
FH	(60°-80°)	10479.9	38.5			G4/12000
FVH	(80°-90°)	945.4	3.5			G5
BL	(0°-30°)	1322.1	4.9	B3/2500		
BM	(30°-60°)	3322.7	12.2	B3/5000		
BH	(60°-80°)	1415.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	97.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4
2.5°	2869.6	2902.9	2898.0	2891.8	2901.7	2902.9	2874.6	2885.6	2891.8	2901.7	2917.7
5°	2877.0	2910.3	2907.8	2896.7	2904.1	2907.8	2881.9	2901.7	2901.7	2905.4	2923.8
7.5°	2861.0	2893.0	2893.0	2889.3	2905.4	2920.1	2896.7	2914.0	2923.8	2933.7	2946.0
10°	2846.2	2873.3	2883.2	2880.7	2917.7	2921.4	2905.4	2947.2	2963.2	2973.1	2987.9
12.5°	2830.2	2863.5	2877.0	2890.6	2930.0	2943.5	2934.9	2978.0	3011.3	3028.5	3044.5
15°	2822.8	2859.8	2881.9	2901.7	2944.8	2969.4	2969.4	3034.7	3074.1	3096.2	3124.6
17.5°	2874.6	2912.7	2930.0	2946.0	2985.4	3018.7	3016.2	3092.6	3150.4	3184.9	3236.7
20°	3002.6	3048.2	3058.1	3064.2	3088.9	3101.2	3097.5	3180.0	3260.1	3325.3	3383.2
22.5°	3225.6	3252.7	3257.6	3233.0	3239.1	3249.0	3242.8	3288.4	3379.5	3455.9	3559.3
25°	3407.8	3451.0	3438.6	3402.9	3407.8	3421.4	3402.9	3473.1	3538.4	3638.2	3742.8
27.5°	3600.0	3632.0	3618.4	3596.3	3591.4	3581.5	3577.8	3667.7	3763.8	3842.6	3997.8
30°	3834.0	3851.2	3811.8	3802.0	3810.6	3816.7	3793.3	3907.9	3995.3	4108.6	4318.0
32.5°	4228.1	4244.1	4187.4	4036.0	4039.7	4068.0	4048.3	4192.4	4357.4	4495.3	4708.4
35°	4730.6	4730.6	4686.2	4473.2	4311.8	4313.1	4318.0	4521.2	4827.9	5137.0	5356.2
37.5°	5239.2	5256.5	5172.7	4978.1	4773.7	4665.3	4574.2	4835.3	5236.8	5926.5	6252.8
40°	5768.8	5795.9	5670.3	5491.7	5256.5	5133.3	5027.4	5186.3	5728.2	6708.5	6967.2
42.5°	6231.9	6270.1	6140.8	5952.3	5788.5	5649.4	5489.3	5553.3	6268.9	7451.2	7597.8
45°	6663.0	6683.9	6574.3	6419.1	6283.6	6207.3	6095.2	6169.1	6887.1	8177.8	8150.7
47.5°	6980.7	7011.5	6911.8	6828.0	6688.8	6643.3	6642.0	6845.2	7583.0	8756.7	8631.1
50°	7496.8	7473.4	7249.2	7147.0	7062.0	7076.8	7112.5	7463.5	8400.8	9314.6	9035.0
52.5°	8362.6	8319.5	7821.9	7608.8	7504.2	7552.2	7570.7	8023.9	9225.9	9796.2	9368.8
55°	9482.1	9344.2	8982.1	8410.6	8081.8	8127.3	8106.4	8626.1	9886.1	10255.6	9616.4
57.5°	10222.3	10351.6	10178.0	9851.6	9035.0	8886.0	8836.7	9222.2	10496.9	10695.2	9872.5
60°	10865.2	11079.5	11355.4	11146.0	10925.5	10367.6	9908.2	9899.6	11035.2	10988.4	9976.0
62.5°	11543.8	11657.1	12082.0	12211.3	12620.2	12518.0	11902.2	10756.8	11573.4	11202.7	10036.3
65°	10857.8	11009.3	11782.7	12488.4	14002.1	14149.9	13949.1	12350.5	11946.5	11312.3	9950.1
67.5°	9813.4	9897.2	10772.8	11997.0	14627.7	14851.9	14649.9	13914.6	12153.5	11264.2	9684.1
70°	8474.7	8573.2	9409.4	11079.5	14595.7	14625.3	14546.5	14058.7	12070.9	11038.9	9014.1
72.5°	6871.1	6995.5	7730.8	9464.9	13896.2	14024.3	13899.9	13773.0	11839.4	10408.3	7860.1
75°	5198.6	5363.6	6020.1	7546.0	12280.3	12925.7	12941.7	13333.3	10940.3	8923.0	5704.8
77.5°	3545.8	3703.4	4325.4	5749.1	10194.0	11224.8	11493.3	11921.9	9141.0	6594.0	3112.3
80°	1996.4	1981.6	2771.1	4107.4	7775.1	8680.3	9017.8	9000.6	6419.1	3385.7	634.3
82.5°	922.5	924.9	1417.6	2622.1	5263.9	5861.2	5997.9	5220.8	2252.6	573.9	202.0
85°	459.4	464.3	682.3	1315.4	2971.9	3433.7	3263.7	2172.5	482.8	167.5	120.7
87.5°	182.3	174.9	269.7	540.7	1072.7	1136.8	992.7	434.8	87.4	59.1	40.6
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°	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4	2905.4
2.5°	2914.0	2916.4	2927.5	2905.4	2911.5	2906.6	2902.9	2922.6	2921.4	2925.1	2918.9
5°	2922.6	2928.8	2939.8	2930.0	2939.8	2934.9	2938.6	2965.7	2969.4	2968.2	2968.2
7.5°	2946.0	2952.2	2973.1	2960.8	2982.9	2976.8	2978.0	3003.9	3008.8	3001.4	2999.0
10°	2995.3	3000.2	3029.7	3027.3	3035.9	3031.0	3026.0	3037.1	3034.7	3023.6	3018.7
12.5°	3051.9	3065.5	3098.7	3099.9	3111.0	3086.4	3060.5	3056.8	3049.4	3032.2	3028.5
15°	3136.9	3152.9	3203.4	3191.1	3183.7	3130.7	3087.6	3053.1	3023.6	3008.8	2995.3
17.5°	3258.8	3285.9	3356.1	3317.9	3263.7	3186.2	3111.0	3035.9	2973.1	2920.1	2899.2
20°	3414.0	3444.8	3503.9	3453.4	3370.9	3255.1	3133.2	2997.7	2861.0	2744.0	2726.8
22.5°	3598.7	3648.0	3691.1	3575.3	3453.4	3306.9	3133.2	2938.6	2712.0	2537.1	2494.0
25°	3814.3	3852.5	3838.9	3676.3	3500.2	3315.5	3098.7	2833.9	2513.7	2310.5	2276.0
27.5°	4048.3	4065.5	3960.8	3724.4	3505.1	3265.0	3001.4	2647.9	2282.2	2122.1	2088.8
30°	4336.5	4284.7	4085.2	3753.9	3455.9	3152.9	2827.8	2375.8	2093.7	1953.3	1915.1
32.5°	4646.8	4552.0	4173.9	3733.0	3347.5	2965.7	2559.3	2183.6	1968.1	1796.9	1764.9
35°	5238.0	4968.3	4303.2	3670.2	3159.1	2715.7	2299.4	2035.8	1835.1	1651.6	1622.0
37.5°	6036.1	5566.8	4484.3	3582.7	2936.1	2473.1	2106.0	1878.2	1704.5	1514.9	1468.1
40°	6656.8	6171.6	4774.9	3489.1	2730.5	2242.7	1965.6	1795.7	1618.3	1416.3	1375.7
42.5°	7248.0	6724.5	5132.1	3384.4	2518.6	2082.6	1904.1	1777.2	1594.9	1389.2	1351.1
45°	7770.2	7171.6	5440.0	3279.8	2279.7	1934.8	1858.5	1741.5	1561.7	1354.8	1317.8
47.5°	8192.6	7555.9	5707.2	3166.4	2062.9	1822.8	1799.4	1676.2	1497.6	1284.6	1240.2
50°	8574.4	7881.0	5892.0	3045.8	1851.1	1731.6	1702.1	1556.7	1370.8	1182.3	1154.0
52.5°	8809.7	8101.5	6002.8	3065.5	1650.3	1629.4	1581.4	1432.4	1259.9	1098.6	1061.6
55°	9056.0	8309.6	6001.6	2954.6	1482.8	1475.5	1429.9	1315.4	1179.9	1044.4	1022.2
57.5°	9157.0	8328.1	5889.5	2433.6	1335.1	1288.3	1278.4	1218.1	1099.8	971.7	947.1
60°	9224.7	8246.8	5677.7	1661.4	1149.1	1115.8	1163.9	1123.2	1016.1	881.8	857.2
62.5°	9158.2	8158.1	5122.2	1199.6	1007.5	1025.9	1071.5	1027.2	915.1	793.2	772.2
65°	8999.3	7819.4	4044.6	934.8	944.6	985.3	1021.0	947.1	741.4	620.7	608.4
67.5°	8565.8	7175.3	2602.4	857.2	908.9	950.8	963.1	801.8	671.2	555.5	541.9
70°	7653.2	5760.2	1002.5	807.9	873.2	891.7	841.2	735.3	617.0	517.3	505.0
72.5°	5986.8	3782.3	578.9	739.0	796.8	779.6	780.8	660.1	556.7	461.9	452.0
75°	3720.7	1369.5	514.8	657.7	674.9	706.9	666.3	572.7	479.1	422.4	410.1
77.5°	1230.4	389.2	476.6	566.5	604.7	581.3	557.9	488.9	410.1	365.8	359.6
80°	298.0	291.9	427.4	443.4	474.2	434.8	432.3	406.4	346.1	320.2	314.1
82.5°	183.5	209.4	339.9	275.9	316.5	320.2	364.6	335.0	252.5	262.3	253.7
85°	113.3	161.3	178.6	133.0	134.2	179.8	218.0	202.0	151.5	142.9	141.6
87.5°	38.2	33.3	38.2	28.3	38.2	65.3	98.5	93.6	62.8	43.1	40.6
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)