

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: P510009

Luminaire Tested: **VERD-M-CA3-180-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510009
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-CA3-180-760-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1120mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25393 lumens
Efficiency: N/A
Efficacy: 138.7 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

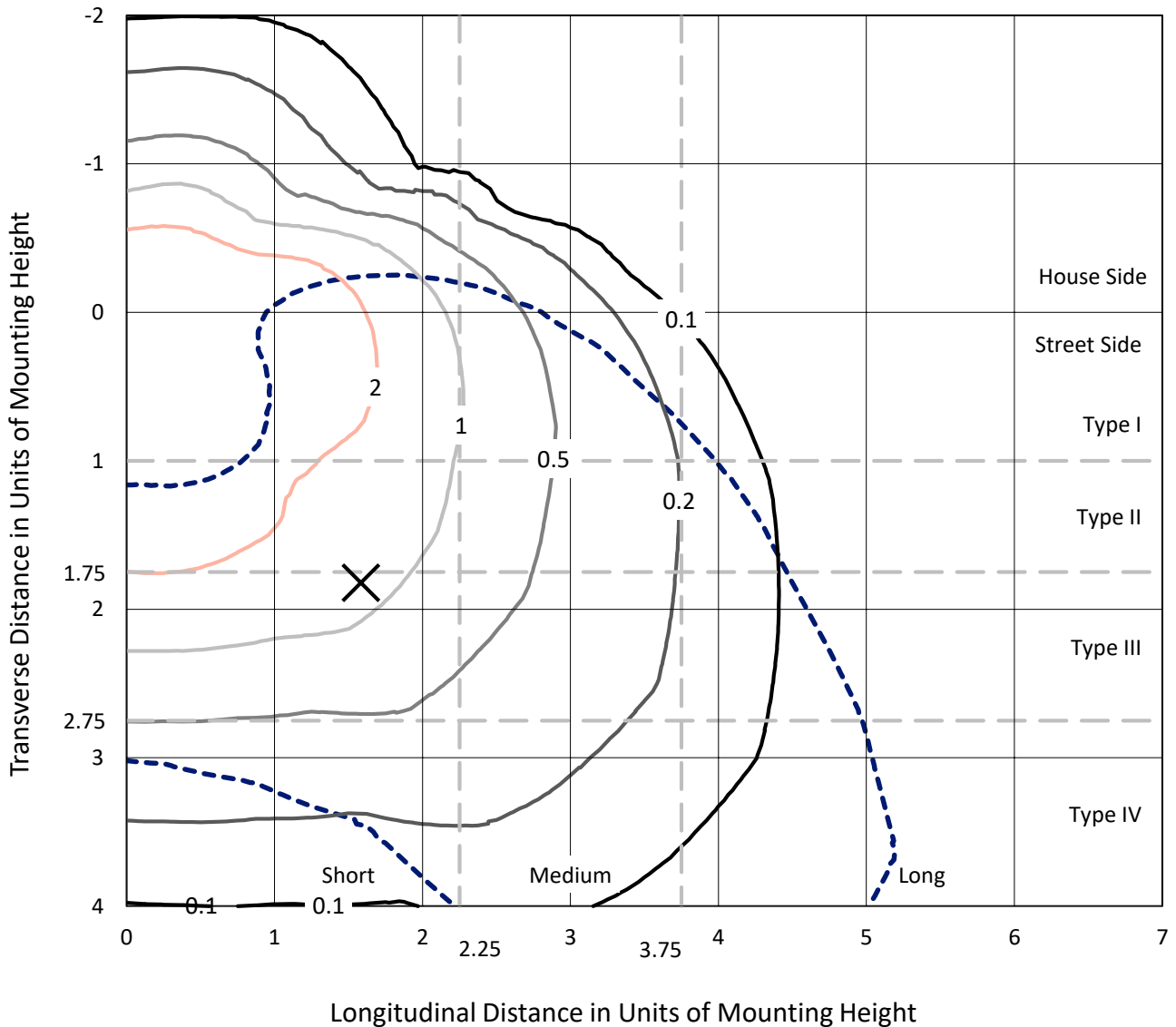
Input Watts (W): 183.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

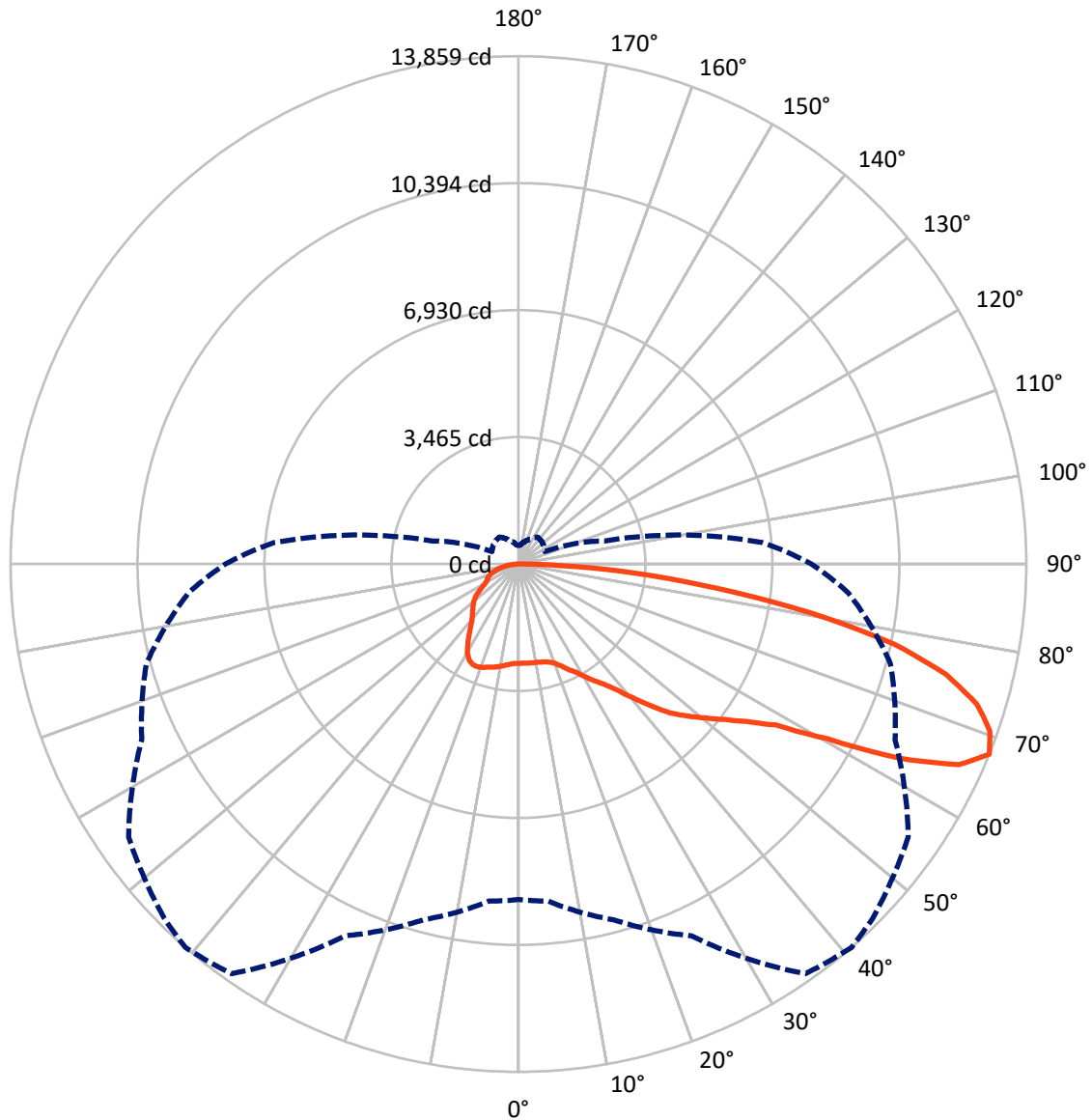
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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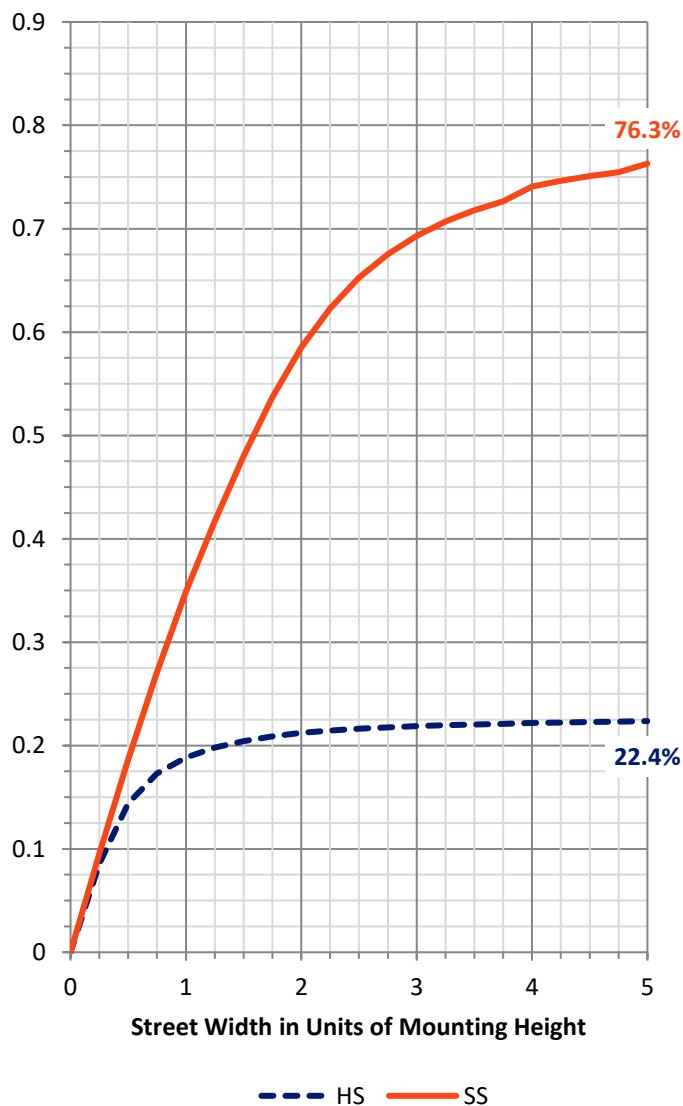
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5746.3	0.0	5746.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19646.7	0.0	19646.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	25393.0	0.0	25393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	1.0
10°-20°	812.5	3.2
20°-30°	1453.0	5.7
30°-40°	2278.3	9.0
40°-50°	3533.0	13.9
50°-60°	4980.7	19.6
60°-70°	6349.2	25.0
70°-80°	4751.3	18.7
80°-90°	973.1	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°	25393.0	100.0
0°-180°	25393.0	100.0

Coefficient of Utilization



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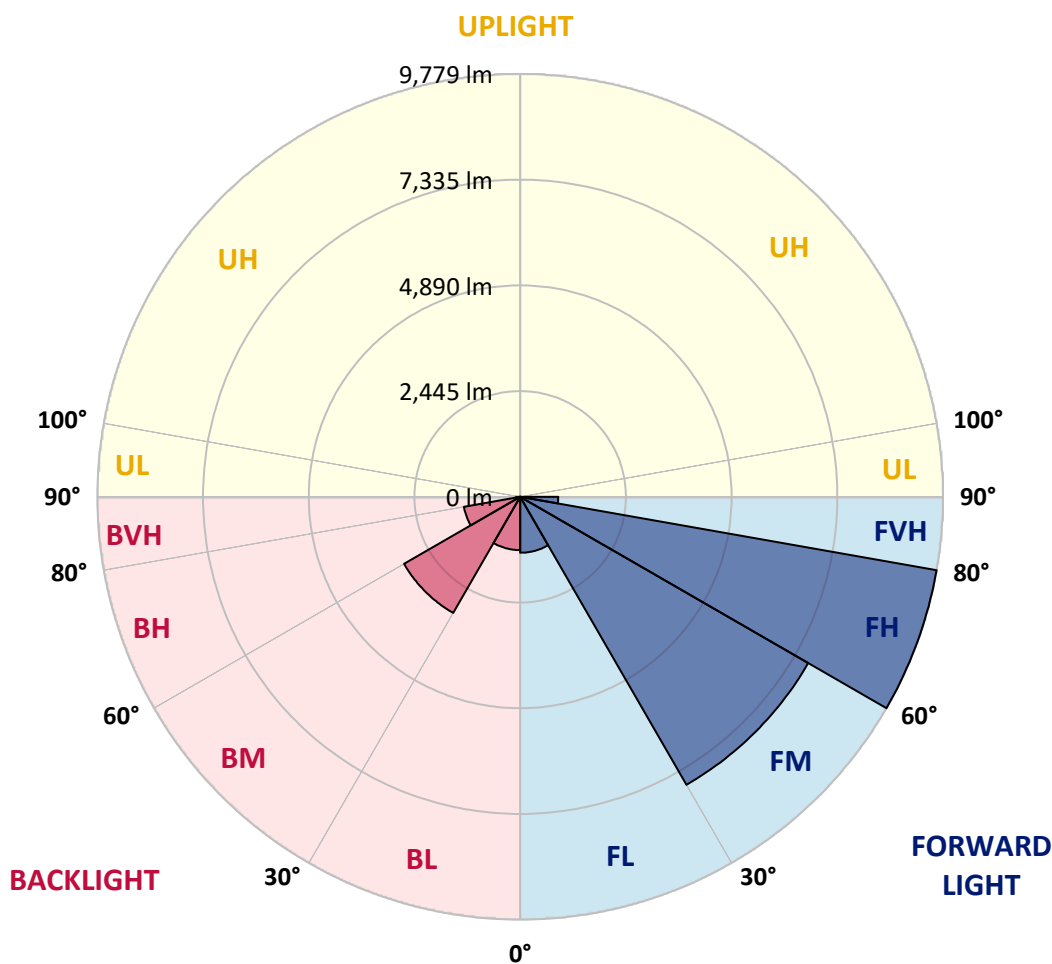
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.8	5.1			
FM (30°-60°)	7691.3	30.3			
FH (60°-80°)	9779.4	38.5			G4/12000
FVH (80°-90°)	882.2	3.5			G5
BL (0°-30°)	1233.7	4.9	B3/2500		
BM (30°-60°)	3100.6	12.2	B3/5000		
BH (60°-80°)	1321.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	90.9	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°	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1
2.5°	2677.8	2708.8	2704.2	2698.5	2707.7	2708.8	2682.4	2692.8	2698.5	2707.7	2722.6
5°	2684.7	2715.7	2713.4	2703.1	2710.0	2713.4	2689.3	2707.7	2707.7	2711.1	2728.4
7.5°	2669.8	2699.6	2699.6	2696.2	2711.1	2724.9	2703.1	2719.2	2728.4	2737.6	2749.1
10°	2656.0	2681.3	2690.5	2688.2	2722.6	2726.1	2711.1	2750.2	2765.2	2774.4	2788.1
12.5°	2641.0	2672.1	2684.7	2697.3	2734.1	2746.8	2738.7	2778.9	2810.0	2826.1	2841.0
15°	2634.1	2668.6	2689.3	2707.7	2747.9	2770.9	2770.9	2831.8	2868.6	2889.3	2915.7
17.5°	2682.4	2718.0	2734.1	2749.1	2785.8	2816.9	2814.6	2885.8	2939.8	2972.0	3020.3
20°	2801.9	2844.5	2853.7	2859.4	2882.4	2893.9	2890.4	2967.4	3042.1	3103.0	3157.1
22.5°	3010.0	3035.2	3039.8	3016.8	3022.6	3031.8	3026.0	3068.6	3153.6	3224.9	3321.4
25°	3180.0	3220.3	3208.8	3175.4	3180.0	3192.7	3175.4	3241.0	3301.9	3395.0	3492.6
27.5°	3359.3	3389.2	3376.6	3355.9	3351.3	3342.1	3338.6	3422.5	3512.2	3585.7	3730.5
30°	3577.7	3593.8	3557.0	3547.8	3555.9	3561.6	3539.8	3646.7	3728.2	3834.0	4029.4
32.5°	3945.5	3960.4	3907.5	3766.2	3769.6	3796.1	3777.7	3912.1	4066.1	4194.9	4393.7
35°	4414.4	4414.4	4373.0	4174.2	4023.6	4024.8	4029.4	4219.0	4505.2	4793.6	4998.2
37.5°	4889.0	4905.1	4827.0	4645.4	4454.6	4353.5	4268.4	4512.1	4886.7	5530.3	5834.9
40°	5383.2	5408.5	5291.3	5124.6	4905.1	4790.2	4691.3	4839.6	5345.3	6260.1	6501.5
42.5°	5815.3	5851.0	5730.3	5554.4	5401.6	5271.7	5122.3	5182.1	5849.8	6953.1	7089.9
45°	6217.6	6237.1	6134.8	5990.0	5863.6	5792.3	5687.8	5756.7	6426.7	7631.2	7605.9
47.5°	6514.1	6542.8	6449.7	6371.6	6241.7	6199.2	6198.0	6387.7	7076.1	8171.3	8054.1
50°	6995.6	6973.8	6764.6	6669.2	6589.9	6603.7	6637.1	6964.6	7839.2	8692.0	8431.1
52.5°	7803.6	7763.4	7299.0	7100.2	7002.5	7047.4	7064.6	7487.5	8609.2	9141.3	8742.5
55°	8848.3	8719.6	8381.7	7848.4	7541.5	7584.1	7564.5	8049.5	9225.2	9570.0	8973.5
57.5°	9539.0	9659.7	9497.6	9193.1	8431.1	8292.0	8246.1	8605.8	9795.3	9980.3	9212.6
60°	10138.9	10338.9	10596.3	10400.9	10195.2	9674.6	9245.9	9237.9	10297.5	10253.8	9309.1
62.5°	10772.2	10877.9	11274.4	11395.1	11776.6	11681.2	11106.6	10037.8	10799.7	10453.8	9365.4
65°	10132.0	10273.4	10995.1	11653.7	13066.1	13204.0	13016.7	11524.9	11148.0	10556.1	9285.0
67.5°	9157.4	9235.6	10052.7	11195.1	13649.9	13859.1	13670.6	12984.5	11341.0	10511.3	9036.8
70°	7908.2	8000.1	8780.5	10338.9	13620.1	13647.6	13574.1	13119.0	11264.0	10301.0	8411.5
72.5°	6411.8	6527.9	7214.0	8832.2	12967.3	13086.8	12970.7	12852.3	11048.0	9712.5	7334.7
75°	4851.1	5005.1	5617.7	7041.6	11459.4	12061.6	12076.6	12442.1	10209.0	8326.5	5323.4
77.5°	3308.8	3455.9	4036.3	5364.8	9512.6	10474.5	10725.0	11125.0	8529.9	6153.2	2904.2
80°	1863.0	1849.2	2585.9	3832.8	7255.4	8100.1	8415.0	8398.9	5990.0	3159.4	591.9
82.5°	860.8	863.1	1322.8	2446.8	4912.0	5469.4	5597.0	4871.8	2102.0	535.6	188.5
85°	428.7	433.3	636.7	1227.4	2773.2	3204.2	3045.6	2027.3	450.5	156.3	112.6
87.5°	170.1	163.2	251.7	504.5	1001.0	1060.8	926.3	405.7	81.6	55.2	37.9
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°	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1	2711.1
2.5°	2719.2	2721.5	2731.8	2711.1	2716.9	2712.3	2708.8	2727.2	2726.1	2729.5	2723.8
5°	2727.2	2733.0	2743.3	2734.1	2743.3	2738.7	2742.2	2767.5	2770.9	2769.8	2769.8
7.5°	2749.1	2754.8	2774.4	2762.9	2783.5	2777.8	2778.9	2803.1	2807.7	2800.8	2798.5
10°	2795.0	2799.6	2827.2	2824.9	2833.0	2828.4	2823.8	2834.1	2831.8	2821.5	2816.9
12.5°	2847.9	2860.5	2891.6	2892.7	2903.1	2880.1	2855.9	2852.5	2845.6	2829.5	2826.1
15°	2927.2	2942.1	2989.3	2977.8	2970.9	2921.5	2881.2	2849.1	2821.5	2807.7	2795.0
17.5°	3041.0	3066.3	3131.8	3096.1	3045.6	2973.2	2903.1	2833.0	2774.4	2724.9	2705.4
20°	3185.8	3214.5	3269.7	3222.6	3145.6	3037.5	2923.8	2797.3	2669.8	2560.6	2544.5
22.5°	3358.2	3404.2	3444.4	3336.3	3222.6	3085.8	2923.8	2742.2	2530.7	2367.5	2327.3
25°	3559.3	3594.9	3582.3	3430.6	3266.2	3093.8	2891.6	2644.5	2345.7	2156.0	2123.9
27.5°	3777.7	3793.8	3696.1	3475.4	3270.8	3046.7	2800.8	2470.9	2129.6	1980.2	1949.2
30°	4046.6	3998.3	3812.1	3503.0	3224.9	2942.1	2638.7	2217.0	1953.8	1822.8	1787.1
32.5°	4336.2	4247.7	3894.9	3483.5	3123.7	2767.5	2388.2	2037.7	1836.5	1676.8	1646.9
35°	4887.9	4636.2	4015.6	3424.8	2947.9	2534.2	2145.7	1899.8	1712.4	1541.2	1513.6
37.5°	5632.6	5194.7	4184.5	3343.2	2739.9	2307.7	1965.3	1752.6	1590.6	1413.6	1369.9
40°	6211.8	5759.0	4455.7	3255.9	2547.9	2092.8	1834.2	1675.6	1510.1	1321.7	1283.7
42.5°	6763.5	6275.0	4789.0	3158.2	2350.3	1943.4	1776.8	1658.4	1488.3	1296.4	1260.8
45°	7250.8	6692.2	5076.3	3060.5	2127.3	1805.5	1734.3	1625.1	1457.3	1264.2	1229.7
47.5°	7645.0	7050.8	5325.7	2954.8	1925.0	1700.9	1679.1	1564.2	1397.5	1198.7	1157.3
50°	8001.3	7354.2	5498.1	2842.2	1727.4	1615.9	1588.3	1452.7	1279.1	1103.3	1076.9
52.5°	8220.8	7559.9	5601.6	2860.5	1540.0	1520.5	1475.7	1336.6	1175.7	1025.2	990.7
55°	8450.6	7754.2	5600.4	2757.1	1383.7	1376.8	1334.3	1227.4	1101.0	974.6	953.9
57.5°	8544.9	7771.4	5495.8	2271.0	1245.8	1202.1	1192.9	1136.6	1026.3	906.8	883.8
60°	8608.1	7695.5	5298.2	1550.4	1072.3	1041.2	1086.1	1048.1	948.2	822.9	799.9
62.5°	8546.0	7612.8	4779.8	1119.4	940.1	957.3	999.9	958.5	853.9	740.1	720.6
65°	8397.8	7296.7	3774.2	872.3	881.5	919.4	952.7	883.8	691.9	579.2	567.7
67.5°	7993.2	6695.7	2428.4	799.9	848.2	887.2	898.7	748.2	626.4	518.3	505.7
70°	7141.6	5375.2	935.5	753.9	814.8	832.1	785.0	686.1	575.8	482.7	471.2
72.5°	5586.6	3529.4	540.2	689.6	743.6	727.5	728.6	616.0	519.5	431.0	421.8
75°	3472.0	1278.0	480.4	613.7	629.8	659.7	621.8	534.4	447.1	394.2	382.7
77.5°	1148.1	363.2	444.8	528.7	564.3	542.5	520.6	456.3	382.7	341.3	335.6
80°	278.1	272.4	398.8	413.7	442.5	405.7	403.4	379.3	322.9	298.8	293.1
82.5°	171.2	195.4	317.2	257.4	295.4	298.8	340.2	312.6	235.6	244.8	236.8
85°	105.7	150.6	166.6	124.1	125.3	167.8	203.4	188.5	141.4	133.3	132.2
87.5°	35.6	31.0	35.6	26.4	35.6	60.9	91.9	87.3	58.6	40.2	37.9
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)