

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: P509119

Luminaire Tested: **VERD-CA2-110-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-110-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1020mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15801 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 113.6
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

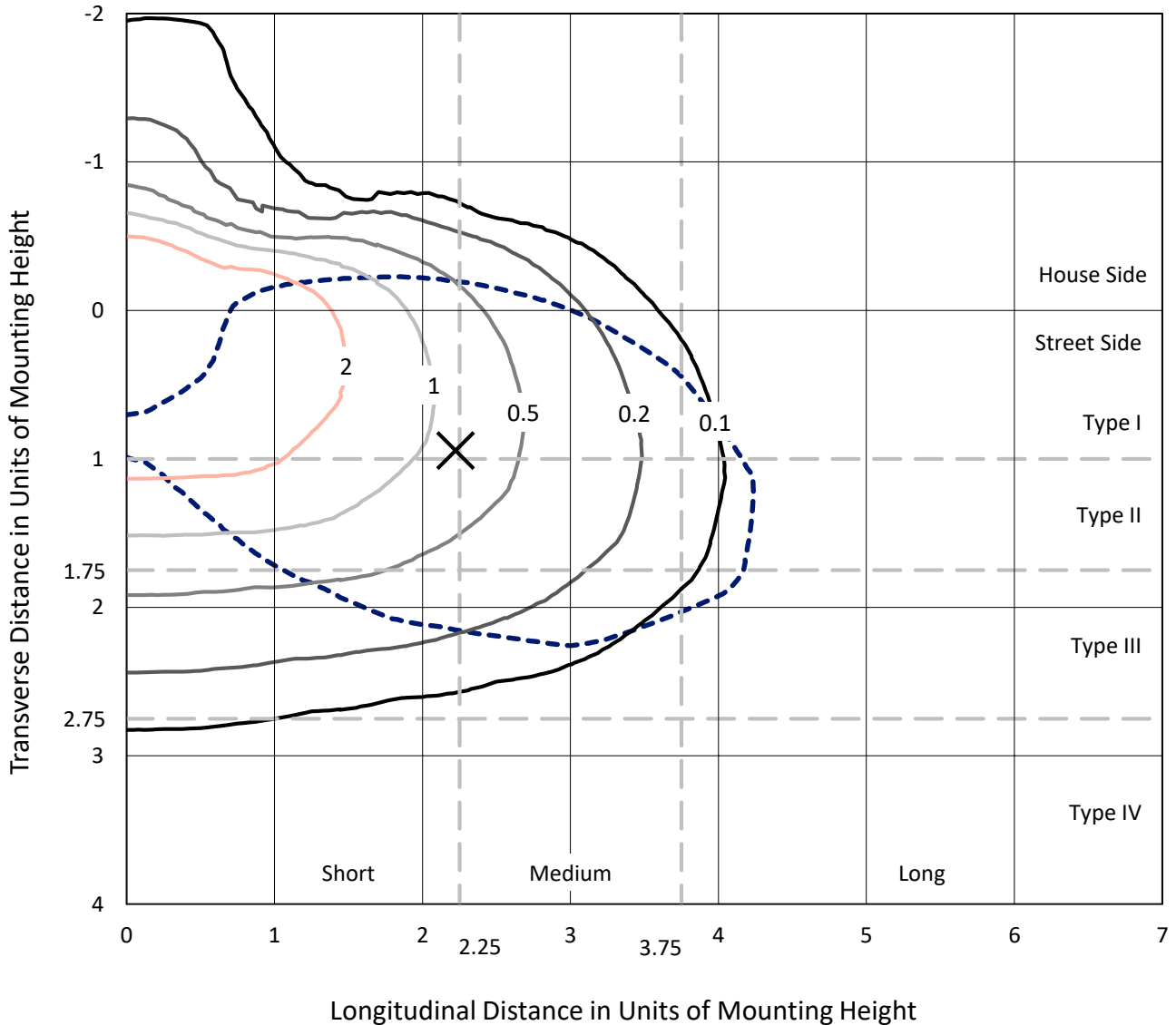


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Iso-Footcandle Lines of Horizontal Illumination

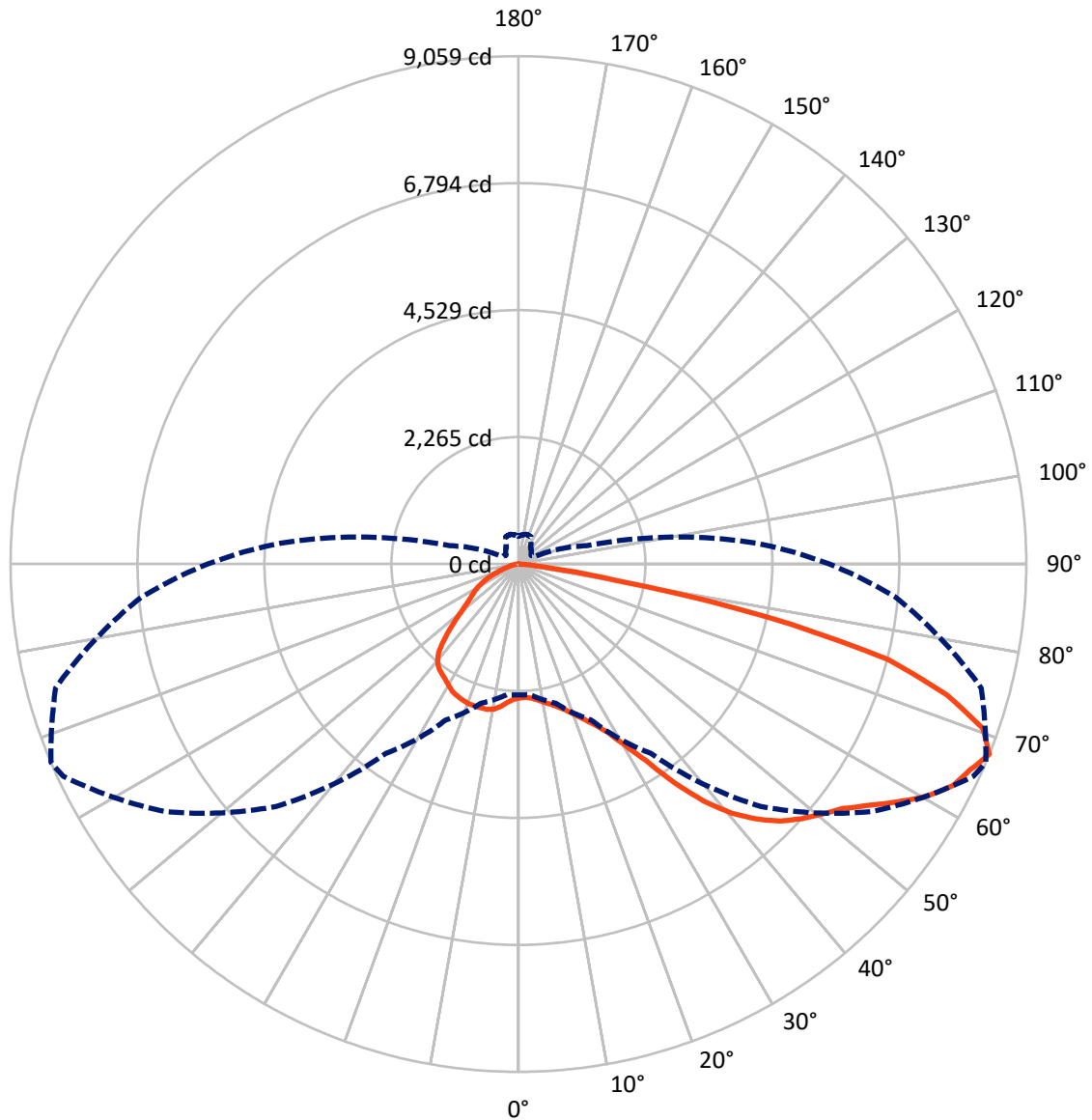
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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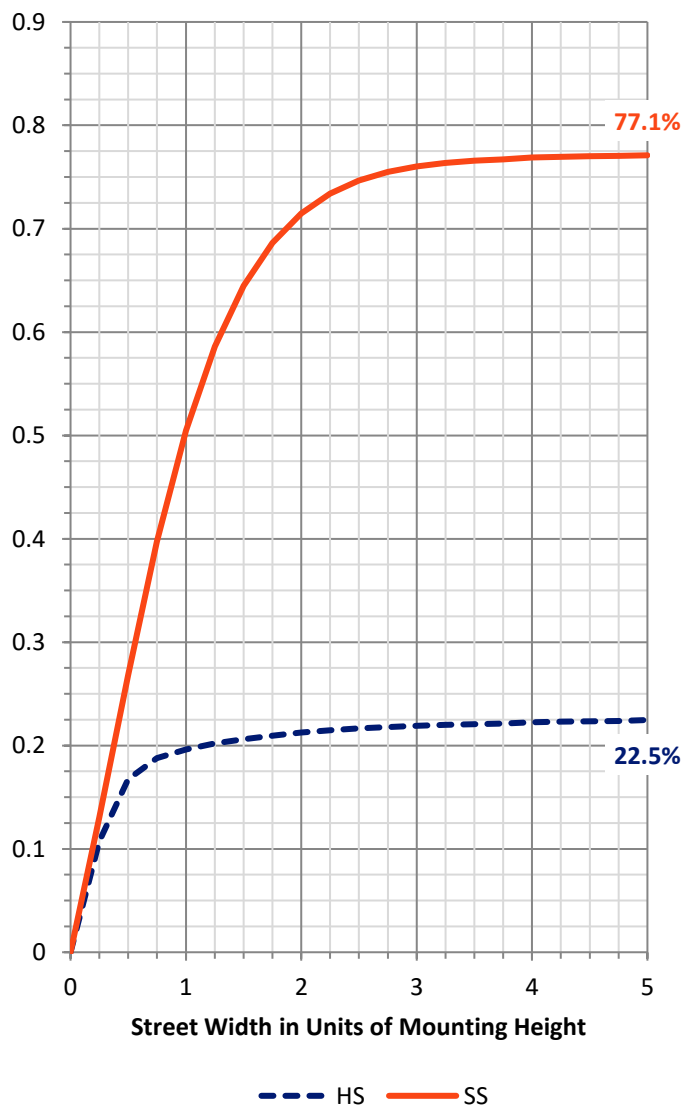
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3613.0	0.0	3613.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12188.0	0.0	12188.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	15801.0	0.0	15801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.5
10°-20°	774.8	4.9
20°-30°	1338.7	8.5
30°-40°	2032.0	12.9
40°-50°	2761.2	17.5
50°-60°	3283.9	20.8
60°-70°	3378.7	21.4
70°-80°	1843.1	11.7
80°-90°	146.5	0.9
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°	15801.0	100.0
0°-180°	15801.0	100.0

Coefficient of Utilization



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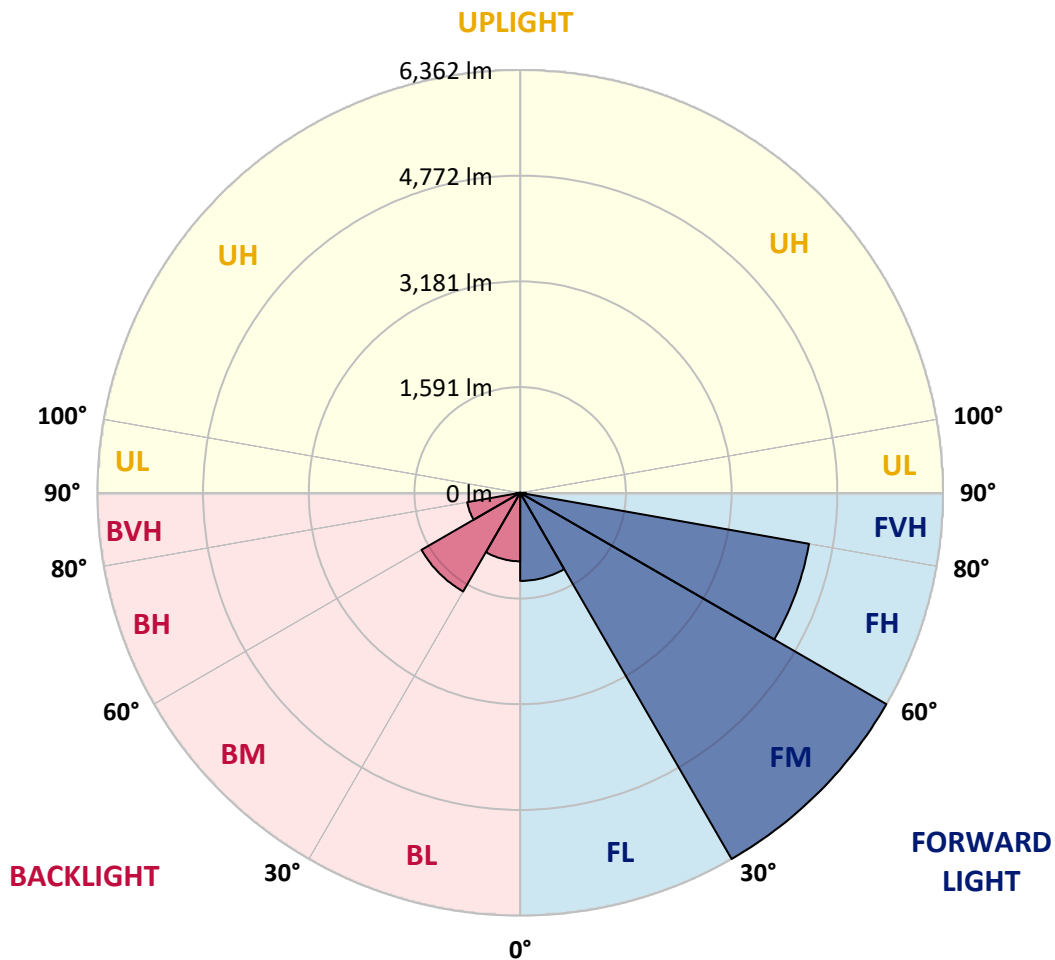
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.3	8.4			
FM (30°-60°)	6362.1	40.3			
FH (60°-80°)	4412.9	27.9			G2/5000
FVH (80°-90°)	87.6	0.6			G1/100
BL (0°-30°)	1030.2	6.5	B3/2500		
BM (30°-60°)	1715.0	10.9	B2/2500		
BH (60°-80°)	808.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	58.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4
2.5°	2404.1	2393.9	2380.2	2385.3	2375.0	2392.1	2385.3	2381.9	2381.9	2383.6	2392.1
5°	2458.9	2448.6	2438.3	2436.6	2416.1	2422.9	2412.7	2402.4	2402.4	2400.7	2404.1
7.5°	2554.7	2541.0	2529.0	2527.3	2501.7	2498.2	2467.4	2446.9	2446.9	2445.2	2450.3
10°	2681.3	2676.2	2652.2	2636.8	2606.0	2585.5	2547.9	2515.3	2508.5	2498.2	2511.9
12.5°	2802.8	2801.1	2778.9	2761.7	2719.0	2683.0	2621.4	2576.9	2568.4	2556.4	2566.7
15°	2955.1	2939.7	2915.7	2905.5	2843.9	2789.1	2719.0	2652.2	2643.7	2630.0	2638.5
17.5°	3122.8	3114.2	3076.6	3064.6	2987.6	2924.3	2837.0	2751.5	2737.8	2719.0	2717.3
20°	3324.7	3309.3	3280.2	3246.0	3170.7	3080.0	2979.1	2881.5	2869.5	2854.1	2821.6
22.5°	3542.0	3524.9	3495.8	3459.9	3364.1	3268.2	3141.6	3018.4	3011.6	3001.3	2941.4
25°	3749.1	3720.0	3723.4	3689.2	3603.6	3482.1	3333.3	3186.1	3182.7	3181.0	3085.1
27.5°	3969.8	3939.0	3928.7	3916.7	3836.3	3721.7	3554.0	3413.7	3401.7	3403.4	3258.0
30°	4176.8	4163.2	4154.6	4146.0	4106.7	4004.0	3843.2	3718.3	3755.9	3752.5	3552.3
32.5°	4337.7	4327.4	4363.4	4404.4	4394.2	4308.6	4197.4	4140.9	4178.6	4300.0	4125.5
35°	4479.7	4474.6	4543.0	4630.3	4691.9	4630.3	4618.3	4705.6	4792.8	4994.8	4893.8
37.5°	4633.7	4626.9	4685.0	4833.9	4941.7	4960.5	5051.2	5275.4	5359.2	5561.1	5349.0
40°	4632.0	4640.6	4780.9	4970.8	5167.6	5326.7	5513.2	5730.5	5838.3	5934.2	5605.6
42.5°	4556.7	4561.8	4738.1	5099.1	5384.9	5698.0	5864.0	6142.9	6216.5	6235.3	5908.5
45°	4479.7	4483.1	4674.8	5080.3	5566.3	6045.4	6230.2	6485.1	6541.6	6476.6	6113.8
47.5°	4368.5	4390.7	4597.8	5061.5	5722.0	6365.4	6514.2	6767.5	6789.7	6707.6	6284.9
50°	4236.7	4248.7	4486.6	4999.9	5824.6	6563.8	6740.1	6969.4	7012.2	6919.8	6497.1
52.5°	4075.9	4086.2	4344.5	4917.8	5881.1	6716.1	6912.9	7186.7	7244.9	7203.8	6683.6
55°	3891.1	3896.2	4159.7	4784.3	5865.7	6782.9	7063.5	7494.7	7592.2	7491.3	6839.3
57.5°	3660.1	3678.9	3978.3	4584.1	5749.4	6866.7	7335.6	7874.6	7999.5	7783.9	6955.7
60°	3422.2	3441.1	3713.1	4351.4	5554.3	6904.4	7616.2	8283.5	8393.0	8061.1	7027.6
62.5°	3155.3	3181.0	3406.8	4000.6	5205.2	6854.7	7823.2	8641.1	8702.7	8227.1	7008.7
65°	2766.9	2780.6	3027.0	3577.9	4750.1	6596.4	7814.7	8832.8	8853.3	8410.1	6926.6
67.5°	2335.7	2337.4	2570.1	3068.0	4123.8	6113.8	7694.9	8957.7	9058.7	8545.3	6746.9
70°	1776.1	1800.1	1981.5	2351.1	3370.9	5289.1	7299.6	8834.5	8786.6	8175.7	6231.9
72.5°	1267.9	1254.2	1346.6	1596.5	2359.6	4081.0	6293.5	7982.4	7992.6	7446.8	5422.5
75°	674.2	677.6	756.3	966.8	1204.6	2655.7	5034.1	6743.5	6805.1	6385.9	4243.6
77.5°	150.6	171.1	260.1	369.6	523.6	850.4	2730.9	4423.2	4539.6	4202.5	2325.4
80°	116.4	118.1	171.1	210.5	231.0	407.2	867.5	1605.0	1781.3	1682.0	874.4
82.5°	77.0	78.7	112.9	116.4	111.2	186.5	393.6	480.8	528.7	462.0	325.1
85°	41.1	42.8	51.3	56.5	44.5	54.8	51.3	41.1	42.8	37.6	37.6
87.5°	8.6	5.1	6.8	5.1	5.1	3.4	5.1	5.1	5.1	5.1	5.1
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°	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4	2390.4
2.5°	2392.1	2395.6	2404.1	2417.8	2424.7	2440.1	2450.3	2476.0	2511.9	2499.9	2484.5
5°	2405.8	2416.1	2445.2	2481.1	2508.5	2549.6	2570.1	2619.7	2660.8	2657.4	2630.0
7.5°	2457.2	2479.4	2515.3	2568.4	2614.6	2655.7	2684.7	2737.8	2775.4	2760.0	2734.4
10°	2522.2	2544.4	2583.8	2631.7	2665.9	2710.4	2729.2	2772.0	2796.0	2777.1	2754.9
12.5°	2582.1	2594.1	2621.4	2657.4	2676.2	2705.3	2713.8	2744.6	2766.9	2758.3	2730.9
15°	2640.3	2638.5	2643.7	2653.9	2660.8	2667.6	2669.3	2691.6	2707.0	2689.9	2671.1
17.5°	2705.3	2688.2	2665.9	2648.8	2623.1	2611.2	2588.9	2599.2	2597.5	2583.8	2568.4
20°	2787.4	2756.6	2688.2	2635.1	2568.4	2515.3	2469.1	2460.6	2460.6	2422.9	2421.2
22.5°	2884.9	2833.6	2719.0	2602.6	2494.8	2411.0	2325.4	2275.8	2239.9	2212.5	2200.5
25°	3011.6	2917.5	2746.3	2558.1	2399.0	2246.7	2118.4	2049.9	1981.5	1937.0	1930.1
27.5°	3146.7	3044.1	2763.5	2518.8	2267.2	2058.5	1880.5	1740.2	1676.9	1647.8	1620.4
30°	3367.5	3186.1	2794.3	2434.9	2101.3	1827.5	1591.3	1427.1	1365.5	1344.9	1327.8
32.5°	3903.1	3554.0	2823.3	2349.4	1923.3	1572.5	1261.1	1122.5	1069.4	1090.0	1096.8
35°	4573.8	4101.6	2961.9	2250.1	1738.5	1283.3	970.2	877.8	881.2	912.0	922.3
37.5°	5029.0	4584.1	3244.3	2125.2	1473.3	951.4	751.2	722.1	747.8	775.1	780.3
40°	5295.9	4804.8	3442.8	1971.2	1160.1	711.8	564.7	544.1	598.9	660.5	698.1
42.5°	5580.0	4993.0	3545.4	1771.0	814.5	515.0	432.9	448.3	535.6	588.6	612.6
45°	5732.2	5140.2	3499.2	1485.3	554.4	400.4	388.4	431.2	518.5	566.4	573.2
47.5°	5896.5	5287.4	3388.0	1187.5	424.4	379.9	381.6	432.9	521.9	573.2	573.2
50°	6038.5	5408.8	3189.5	930.8	403.8	366.2	383.3	441.5	527.0	571.5	569.8
52.5°	6202.8	5463.6	2907.2	752.9	383.3	354.2	385.0	448.3	518.5	544.1	540.7
55°	6254.1	5424.2	2772.0	629.7	367.9	347.4	391.8	458.6	515.0	520.2	511.6
57.5°	6254.1	5318.2	2618.0	537.3	354.2	347.4	395.3	456.9	533.9	566.4	563.0
60°	6226.8	5206.9	2381.9	480.8	335.4	343.9	397.0	482.5	634.8	670.8	669.0
62.5°	6139.5	5027.3	2091.0	424.4	316.6	345.6	391.8	518.5	725.5	710.1	672.5
65°	5932.4	4688.5	1695.7	373.0	296.0	345.6	385.0	569.8	645.1	616.0	602.3
67.5°	5542.3	4262.4	1261.1	320.0	272.1	323.4	374.7	533.9	547.6	515.0	494.5
70°	5027.3	3610.5	809.4	270.4	246.4	304.6	367.9	501.4	528.7	489.4	463.7
72.5°	4188.8	2867.8	468.8	220.7	208.8	280.6	354.2	486.0	520.2	467.1	431.2
75°	2955.1	1810.4	308.0	162.6	167.7	239.6	328.5	455.2	487.7	422.6	371.3
77.5°	1505.8	679.3	219.0	119.8	112.9	183.1	284.0	419.2	480.8	426.1	364.5
80°	532.2	342.2	143.7	78.7	73.6	112.9	217.3	355.9	451.7	415.8	403.8
82.5°	227.6	171.1	78.7	49.6	44.5	56.5	123.2	280.6	397.0	376.4	455.2
85°	32.5	29.1	22.2	18.8	18.8	25.7	39.4	138.6	268.6	306.3	371.3
87.5°	5.1	5.1	5.1	3.4	3.4	3.4	1.7	20.5	89.0	133.5	184.8
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)