

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: P553565

Luminaire Tested: **VERD-G-CA2-150-730-U-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-150-730-U-T4
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21149 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

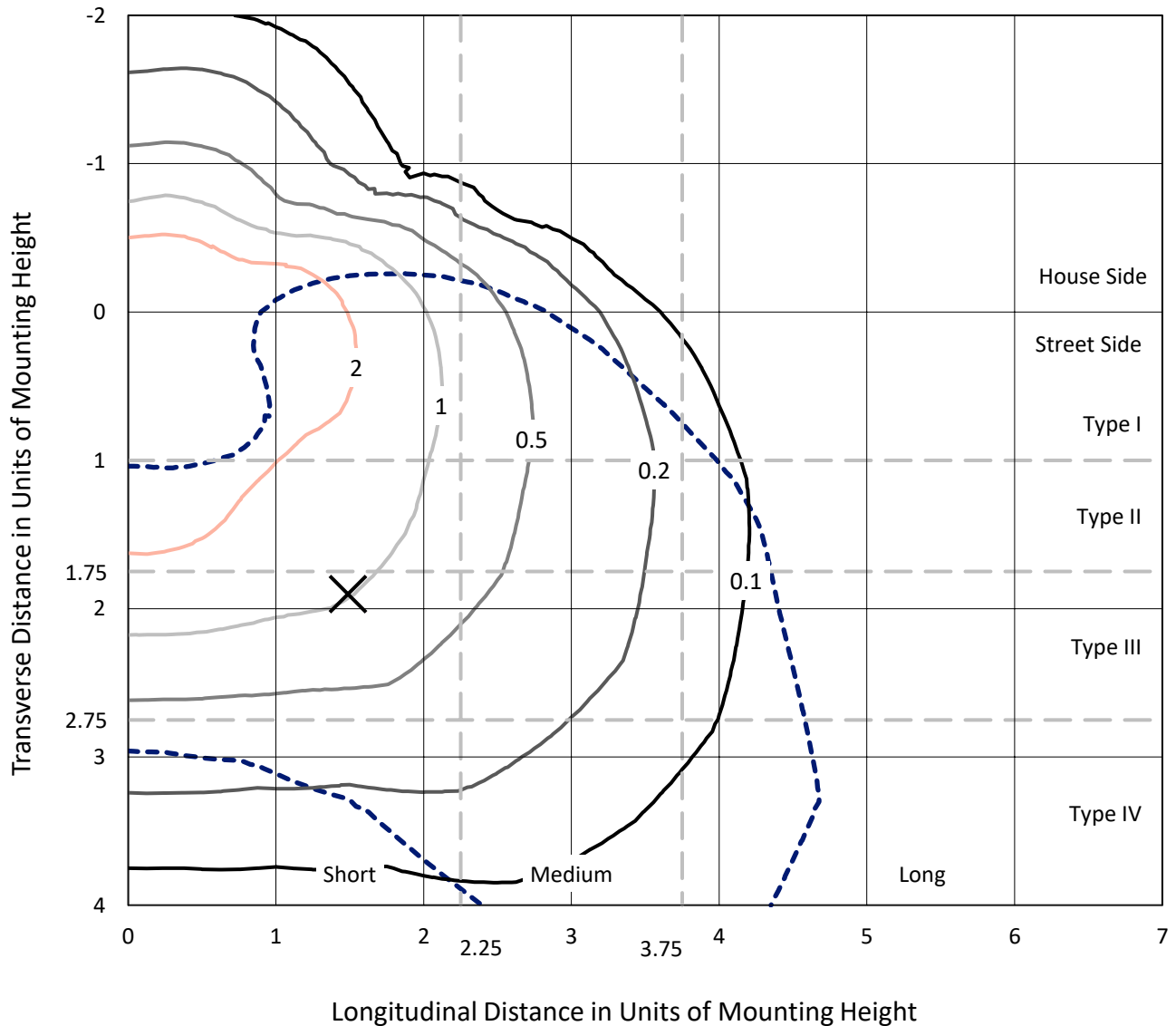
Input Watts (W): 152.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

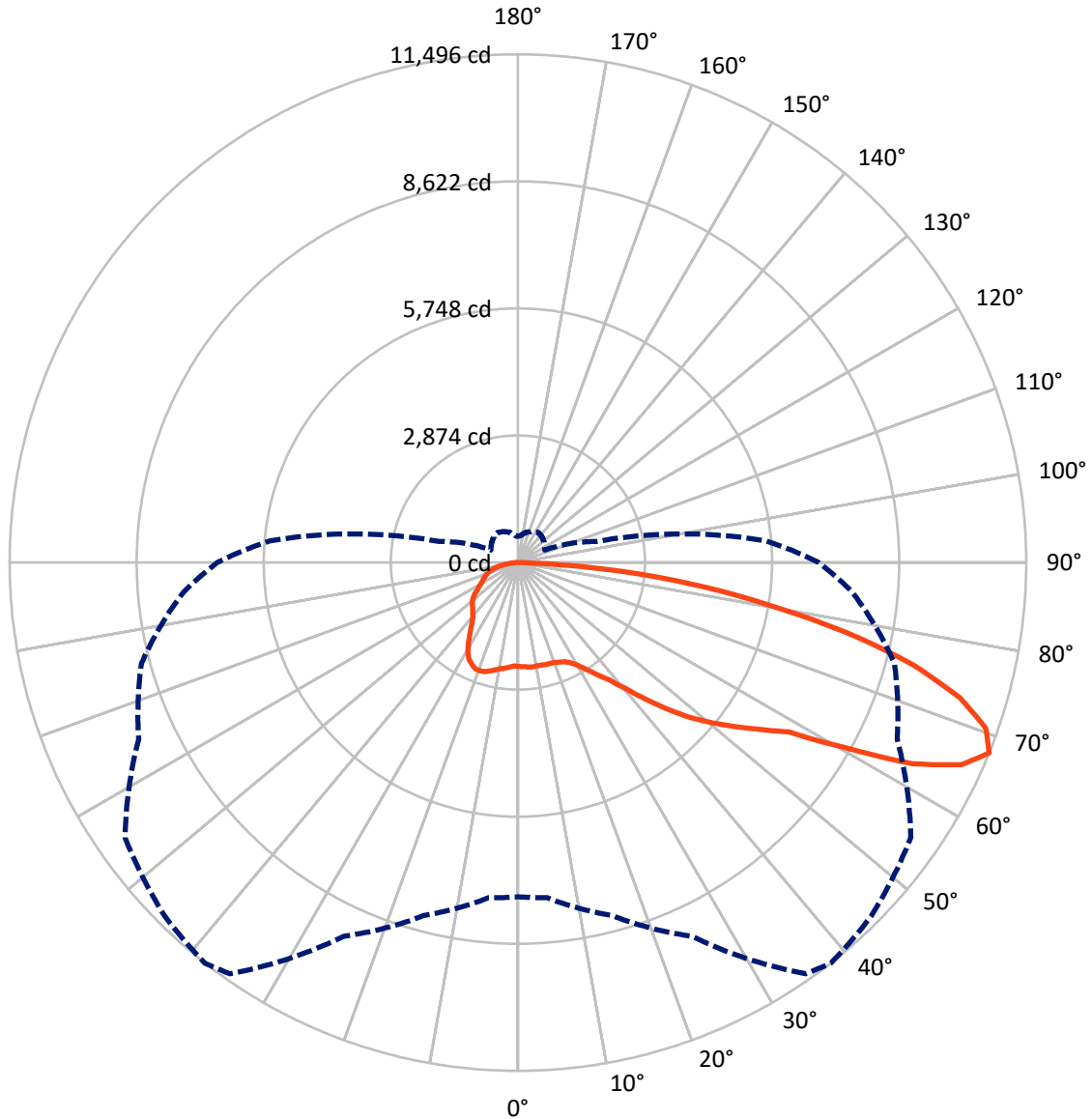
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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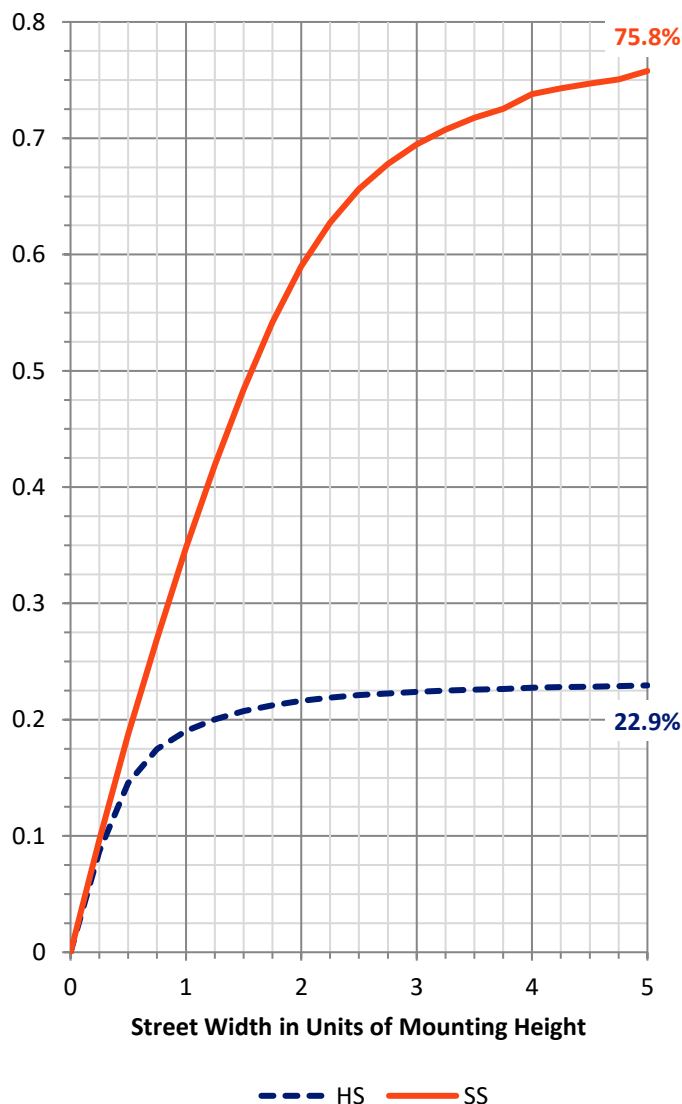
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4907.2	0.0	4907.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	16241.8	0.0	16241.8
	% Fixture	76.8	0.0	76.8
Total	Lumens	21149.0	0.0	21149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.1
10°-20°	703.1	3.3
20°-30°	1191.6	5.6
30°-40°	1826.1	8.6
40°-50°	3009.0	14.2
50°-60°	4300.7	20.3
60°-70°	5357.5	25.3
70°-80°	3817.8	18.1
80°-90°	715.2	3.4
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°	21149.0	100.0
0°-180°	21149.0	100.0

Coefficient of Utilization



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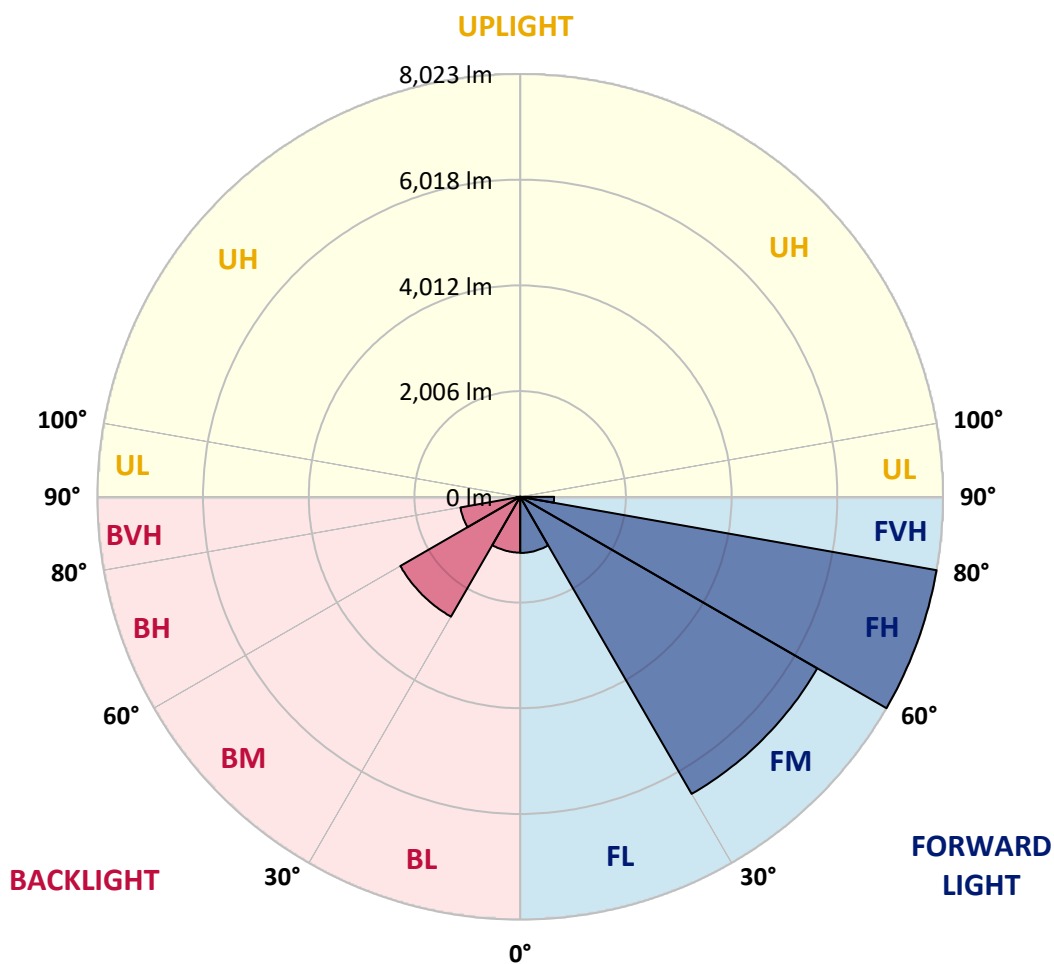
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1064.5	5.0			
FM	(30°-60°)	6509.2	30.8			
FH	(60°-80°)	8023.4	37.9			G4/12000
FVH	(80°-90°)	644.7	3.0			G4/750
BL	(0°-30°)	1058.2	5.0	B3/2500		
BM	(30°-60°)	2626.6	12.4	B3/5000		
BH	(60°-80°)	1151.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	70.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2393.3	2403.1	2384.8	2382.0	2370.8	2356.7	2359.5	2348.3	2334.2	2339.9	2342.7
5°	2407.3	2407.3	2393.3	2379.2	2373.6	2370.8	2373.6	2360.9	2358.1	2368.0	2359.5
7.5°	2394.7	2403.1	2379.2	2379.2	2369.4	2386.2	2387.6	2372.2	2383.4	2383.4	2382.0
10°	2391.9	2394.7	2384.8	2365.2	2363.8	2373.6	2393.3	2398.9	2404.5	2403.1	2408.7
12.5°	2359.5	2356.7	2337.0	2342.7	2369.4	2379.2	2412.9	2428.4	2449.5	2455.1	2457.9
15°	2318.8	2330.0	2331.4	2348.3	2376.4	2391.9	2425.6	2456.5	2502.9	2514.1	2512.7
17.5°	2323.0	2327.2	2334.2	2344.1	2387.6	2394.7	2449.5	2483.2	2540.8	2580.2	2599.8
20°	2349.7	2341.3	2355.3	2380.6	2404.5	2410.1	2467.7	2519.7	2598.4	2650.4	2672.9
22.5°	2394.7	2396.1	2403.1	2403.1	2420.0	2445.3	2498.7	2539.4	2636.4	2709.5	2748.8
25°	2436.8	2439.6	2448.1	2445.3	2473.4	2484.6	2535.2	2597.0	2708.1	2793.8	2869.7
27.5°	2500.1	2508.5	2502.9	2504.3	2559.1	2570.3	2592.8	2675.7	2789.6	2904.8	3039.7
30°	2618.1	2618.1	2612.5	2618.1	2677.1	2705.2	2712.3	2793.8	2886.5	3025.7	3229.4
32.5°	2788.2	2789.6	2754.4	2782.5	2848.6	2897.8	2918.9	3048.1	3152.1	3219.6	3482.4
35°	3152.1	3136.7	3100.1	3018.6	3060.8	3121.2	3188.7	3353.1	3582.2	3833.7	4097.9
37.5°	3710.0	3708.6	3579.4	3416.3	3343.3	3374.2	3468.3	3714.3	4072.6	4700.8	4934.1
40°	4329.8	4345.3	4158.3	3954.6	3739.6	3742.4	3766.3	4074.0	4592.6	5500.4	5622.7
42.5°	4948.1	4922.8	4716.3	4520.9	4228.6	4210.3	4147.1	4438.0	5136.4	6139.8	6156.7
45°	5499.0	5486.4	5257.3	5059.2	4783.7	4713.4	4641.8	4827.3	5655.0	6657.0	6546.0
47.5°	6016.2	6033.0	5716.8	5538.4	5265.7	5230.6	5147.7	5265.7	6168.0	7063.1	6862.2
50°	6605.0	6612.0	6234.0	6013.4	5743.5	5698.6	5666.3	5816.6	6697.8	7451.0	7184.0
52.5°	7264.1	7126.4	6758.2	6454.6	6196.1	6162.3	6144.1	6301.5	7278.2	7791.1	7396.2
55°	8093.2	7909.1	7532.5	7029.4	6652.8	6658.4	6595.2	6779.3	7767.2	8025.8	7602.8
57.5°	8455.8	8498.0	8427.7	7969.6	7309.1	7227.6	7071.6	7213.5	8232.4	8301.2	7765.8
60°	9138.8	9301.8	9150.0	8894.3	8698.9	8485.3	7723.6	7777.0	8656.8	8606.2	7784.1
62.5°	9185.2	9241.4	9720.6	9761.4	9951.1	10022.7	9391.8	8416.5	9041.8	8759.4	7845.9
65°	8729.9	8793.1	9370.7	9878.0	10922.2	11020.5	10821.0	9587.1	9353.8	8842.3	7796.7
67.5°	7559.2	7611.2	8267.5	9327.1	11353.6	11495.5	11301.6	10846.3	9463.4	8814.2	7580.3
70°	6465.9	6495.4	7040.7	8523.3	11057.1	11224.3	11147.0	10894.0	9459.2	8648.3	7102.5
72.5°	5078.8	5164.6	5604.4	7068.8	10308.0	10448.6	10471.0	10600.3	9218.9	8103.1	6034.4
75°	3683.3	3729.7	4228.6	5492.0	8897.1	9233.0	9627.9	10115.5	8315.3	6879.0	4461.9
77.5°	2595.6	2640.6	3110.0	4164.0	7200.9	7583.1	8297.0	8583.7	6746.9	5156.1	2348.3
80°	1708.9	1703.2	2150.1	3081.9	5403.5	5671.9	6201.7	5818.0	3915.2	2241.5	255.8
82.5°	1003.4	1059.6	1377.2	2117.8	3776.1	3925.1	3911.0	3063.6	1554.3	231.9	130.7
85°	579.0	600.1	812.3	1255.0	2081.3	2102.4	1883.1	1188.9	385.1	104.0	77.3
87.5°	258.6	248.7	323.2	414.6	379.4	282.5	175.7	49.2	29.5	19.7	12.6
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°	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7	2349.7
2.5°	2331.4	2324.4	2359.5	2339.9	2356.7	2346.9	2338.5	2349.7	2370.8	2389.0	2377.8
5°	2349.7	2353.9	2382.0	2358.1	2380.6	2376.4	2365.2	2377.8	2411.5	2428.4	2427.0
7.5°	2370.8	2373.6	2403.1	2393.3	2403.1	2394.7	2412.9	2404.5	2434.0	2445.3	2438.2
10°	2396.1	2400.3	2427.0	2428.4	2432.6	2427.0	2435.4	2439.6	2456.5	2479.0	2464.9
12.5°	2450.9	2460.7	2480.4	2501.5	2498.7	2476.2	2483.2	2460.7	2476.2	2483.2	2494.4
15°	2526.8	2550.7	2561.9	2591.4	2564.7	2552.1	2525.4	2480.4	2466.3	2459.3	2448.1
17.5°	2608.3	2630.8	2651.8	2689.8	2646.2	2612.5	2566.1	2481.8	2418.6	2396.1	2386.2
20°	2699.6	2720.7	2758.6	2783.9	2719.3	2646.2	2571.7	2448.1	2323.0	2237.3	2247.1
22.5°	2802.2	2848.6	2873.9	2866.9	2775.5	2675.7	2547.8	2359.5	2199.3	2071.4	2063.0
25°	2944.1	2970.8	2980.7	2916.0	2806.4	2654.7	2467.7	2254.1	2030.7	1887.3	1866.3
27.5°	3093.1	3121.2	3069.2	2948.4	2796.6	2605.5	2377.8	2074.3	1835.3	1697.6	1682.2
30°	3284.2	3277.2	3129.7	2938.5	2740.4	2487.4	2213.4	1890.2	1669.5	1541.6	1534.6
32.5°	3492.2	3440.2	3178.8	2890.7	2633.6	2332.8	2004.0	1715.9	1545.9	1418.0	1412.3
35°	3984.1	3745.2	3250.5	2830.3	2476.2	2119.2	1810.1	1585.2	1447.5	1302.7	1274.6
37.5°	4706.4	4321.4	3398.1	2768.5	2296.3	1908.4	1648.4	1488.2	1357.5	1203.0	1176.3
40°	5379.6	4907.4	3656.6	2722.1	2134.7	1738.4	1537.4	1420.8	1294.3	1139.7	1106.0
42.5°	5857.4	5362.7	3967.2	2646.2	1973.1	1603.5	1491.0	1395.5	1277.4	1134.1	1107.4
45°	6242.4	5756.2	4275.0	2560.5	1783.4	1488.2	1443.3	1374.4	1256.4	1117.2	1086.3
47.5°	6513.7	6003.5	4488.6	2463.5	1602.1	1418.0	1402.5	1340.7	1224.0	1093.3	1073.7
50°	6793.3	6280.4	4634.7	2363.8	1439.0	1364.6	1346.3	1264.8	1158.0	1041.3	1020.3
52.5°	6976.0	6415.3	4719.1	2344.1	1299.9	1291.5	1269.0	1191.7	1090.5	964.1	938.8
55°	7115.1	6534.7	4706.4	2228.8	1174.8	1195.9	1181.9	1124.3	1035.7	912.1	895.2
57.5°	7148.9	6553.0	4591.2	1871.9	1056.8	1068.0	1075.1	1086.3	1000.6	898.0	869.9
60°	7245.8	6467.3	4387.4	1346.3	917.7	945.8	1002.0	1011.8	952.8	836.2	819.3
62.5°	7184.0	6409.7	3944.7	948.6	819.3	876.9	930.3	930.3	848.8	740.6	729.4
65°	7075.8	6182.0	3086.1	747.6	767.3	826.3	875.5	841.8	771.5	670.3	663.3
67.5°	6800.3	5626.9	1842.4	673.1	730.8	787.0	822.1	771.5	705.5	605.7	594.5
70°	6009.2	4484.4	701.3	638.0	694.2	733.6	756.1	704.1	639.4	539.6	529.8
72.5°	4771.1	2805.0	445.5	594.5	647.9	683.0	697.0	636.6	534.0	420.2	408.9
75°	2871.1	801.0	386.5	514.3	570.6	631.0	607.1	528.4	451.1	352.7	345.7
77.5°	726.6	243.1	344.3	414.6	463.8	535.4	534.0	476.4	393.5	288.1	276.8
80°	174.3	170.0	279.7	306.4	349.9	410.4	404.7	396.3	312.0	199.6	164.4
82.5°	111.0	118.0	189.7	171.4	199.6	238.9	271.2	255.8	233.3	122.3	109.6
85°	74.5	94.2	92.8	64.6	89.9	134.9	175.7	160.2	132.1	75.9	67.5
87.5°	11.2	12.6	16.9	25.3	39.3	66.1	87.1	85.7	64.6	47.8	45.0
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)