

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: P510065

Luminaire Tested: **VERD-M-CA4-200-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510065
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-CA4-200-722-U-T4
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23408 lumens
Efficiency: N/A
Efficacy: 116.0 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

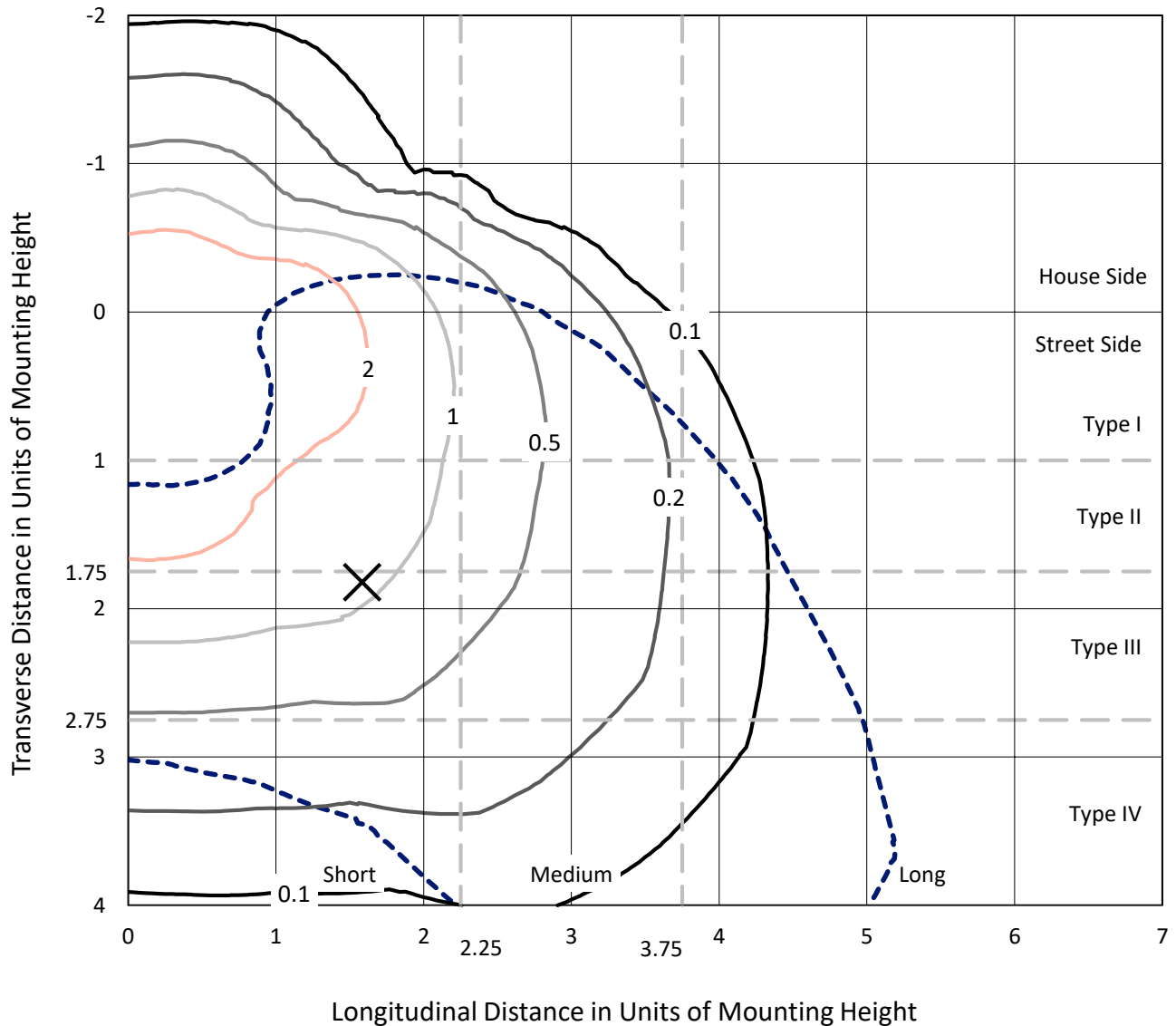
Input Watts (W): 201.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

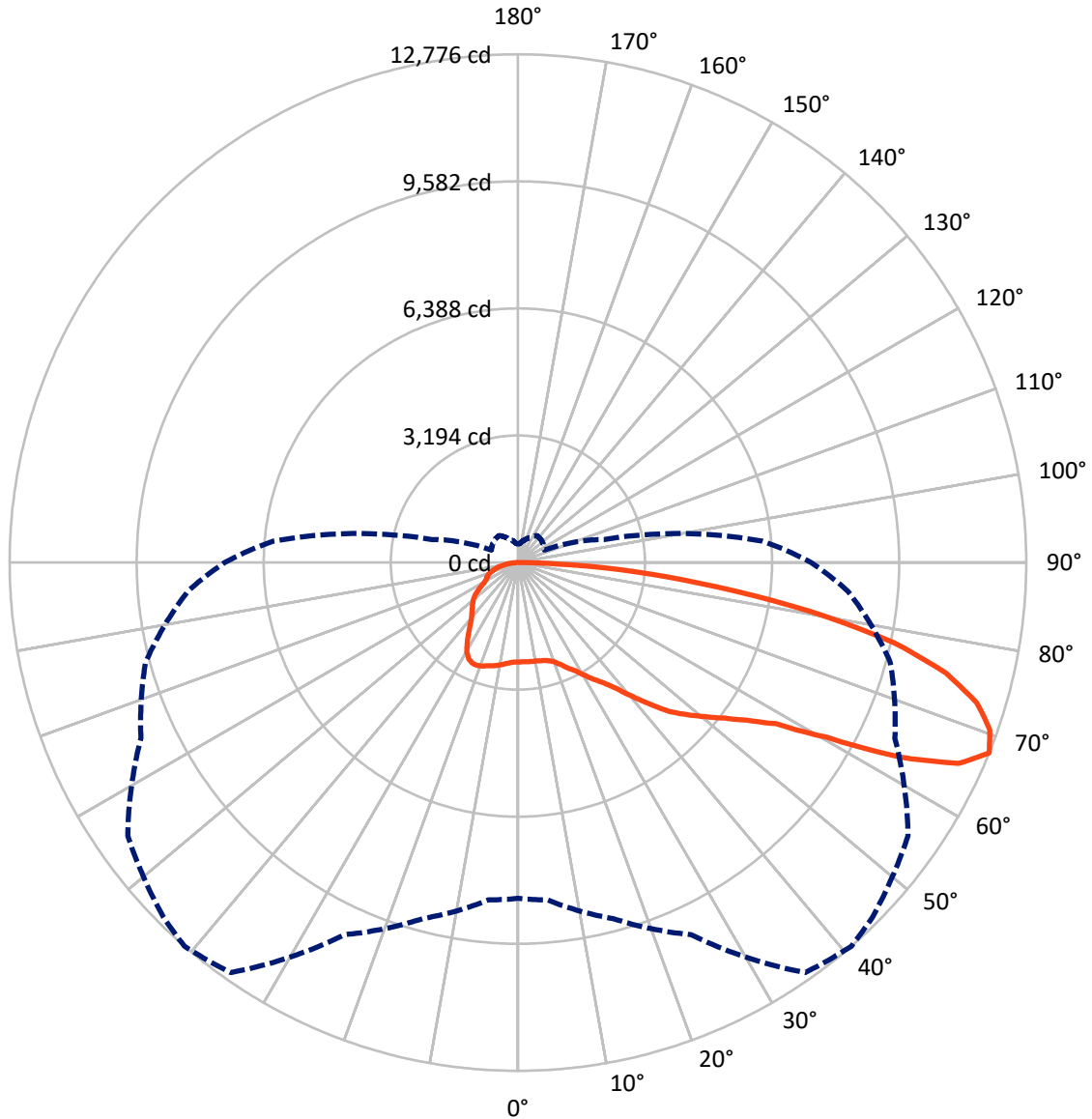
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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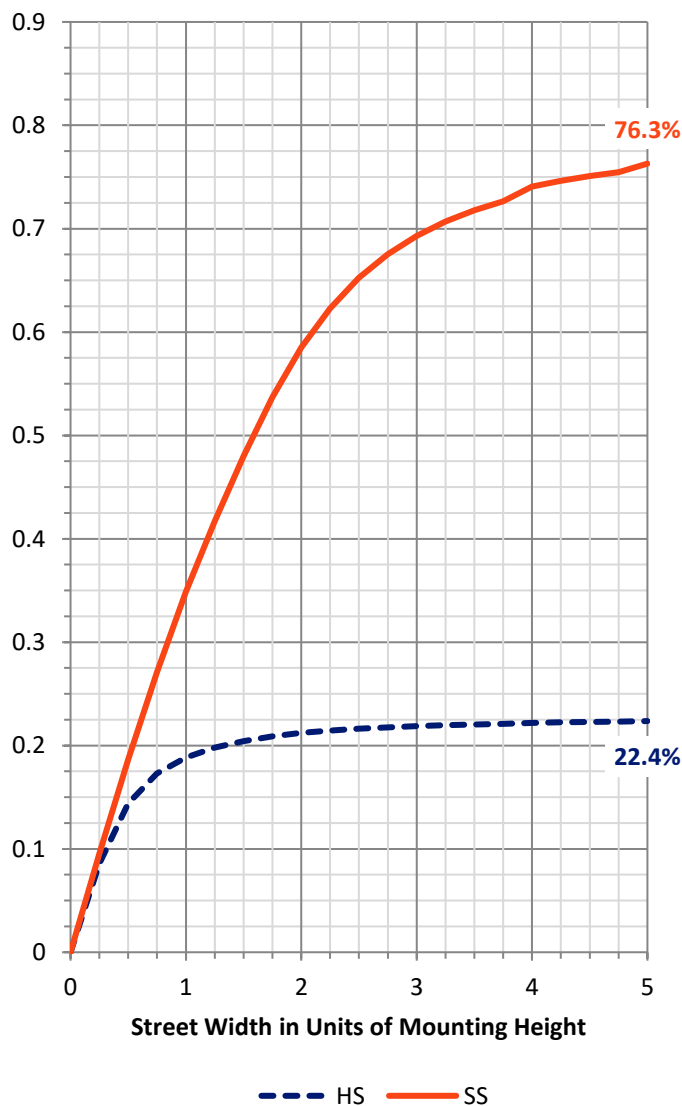
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5297.1	0.0	5297.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18110.9	0.0	18110.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	23408.0	0.0	23408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.0
10°-20°	749.0	3.2
20°-30°	1339.4	5.7
30°-40°	2100.2	9.0
40°-50°	3256.8	13.9
50°-60°	4591.3	19.6
60°-70°	5852.8	25.0
70°-80°	4379.9	18.7
80°-90°	897.0	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°	23408.0	100.0
0°-180°	23408.0	100.0

Coefficient of Utilization



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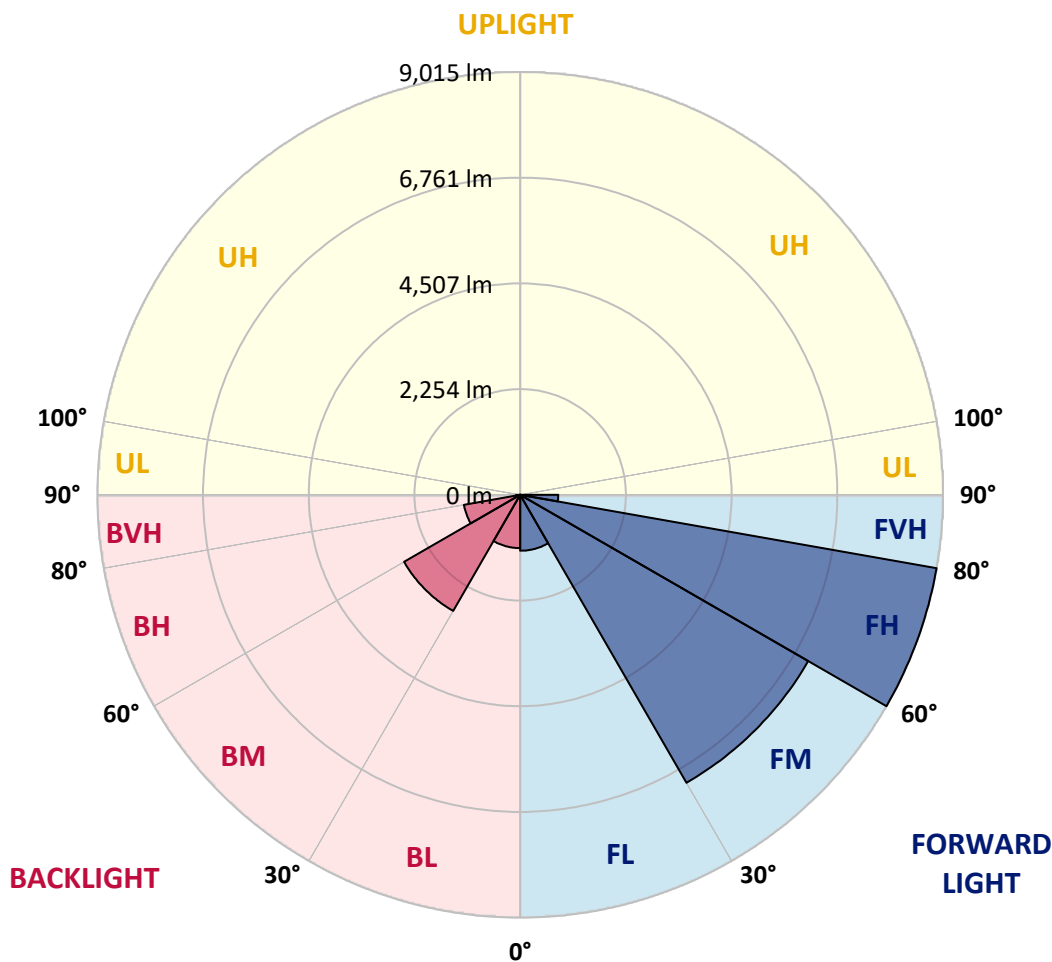
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1192.7	5.1			
FM	(30°-60°)	7090.1	30.3			
FH	(60°-80°)	9014.9	38.5			G4/12000
FVH	(80°-90°)	813.2	3.5			G5
BL	(0°-30°)	1137.3	4.9	B3/2500		
BM	(30°-60°)	2858.3	12.2	B3/5000		
BH	(60°-80°)	1217.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	83.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2
2.5°	2468.5	2497.1	2492.9	2487.6	2496.0	2497.1	2472.7	2482.3	2487.6	2496.0	2509.8
5°	2474.8	2503.4	2501.3	2491.8	2498.1	2501.3	2479.1	2496.0	2496.0	2499.2	2515.1
7.5°	2461.1	2488.6	2488.6	2485.4	2499.2	2511.9	2491.8	2506.6	2515.1	2523.6	2534.2
10°	2448.4	2471.7	2480.1	2478.0	2509.8	2513.0	2499.2	2535.2	2549.0	2557.5	2570.2
12.5°	2434.6	2463.2	2474.8	2486.5	2520.4	2532.1	2524.6	2561.7	2590.3	2605.2	2618.9
15°	2428.2	2460.0	2479.1	2496.0	2533.1	2554.3	2554.3	2610.4	2644.4	2663.4	2687.8
17.5°	2472.7	2505.6	2520.4	2534.2	2568.1	2596.7	2594.6	2660.2	2710.0	2739.7	2784.2
20°	2582.9	2622.1	2630.6	2635.9	2657.1	2667.7	2664.5	2735.5	2804.3	2860.5	2910.3
22.5°	2774.7	2798.0	2802.2	2781.0	2786.3	2794.8	2789.5	2828.7	2907.1	2972.8	3061.8
25°	2931.5	2968.5	2957.9	2927.2	2931.5	2943.1	2927.2	2987.6	3043.8	3129.6	3219.6
27.5°	3096.7	3124.3	3112.6	3093.6	3089.3	3080.8	3077.7	3155.0	3237.6	3305.4	3438.9
30°	3298.0	3312.9	3279.0	3270.5	3277.9	3283.2	3263.1	3361.6	3436.8	3534.3	3714.4
32.5°	3637.0	3650.8	3602.1	3471.8	3474.9	3499.3	3482.4	3606.3	3748.3	3866.9	4050.2
35°	4069.3	4069.3	4031.2	3847.9	3709.1	3710.1	3714.4	3889.2	4153.0	4418.9	4607.5
37.5°	4506.8	4521.7	4449.6	4282.2	4106.4	4013.1	3934.7	4159.3	4504.7	5098.0	5378.8
40°	4962.4	4985.7	4877.6	4724.0	4521.7	4415.7	4324.6	4461.3	4927.4	5770.7	5993.2
42.5°	5360.7	5393.6	5282.3	5120.3	4979.3	4859.6	4721.9	4777.0	5392.5	6409.6	6535.7
45°	5731.5	5749.6	5655.3	5521.8	5405.2	5339.6	5243.1	5306.7	5924.4	7034.6	7011.3
47.5°	6004.9	6031.4	5945.6	5873.5	5753.8	5714.6	5713.5	5888.3	6522.9	7532.6	7424.5
50°	6448.8	6428.7	6235.8	6147.9	6074.8	6087.5	6118.2	6420.2	7226.4	8012.5	7772.0
52.5°	7193.6	7156.5	6728.5	6545.2	6455.1	6496.5	6512.3	6902.2	7936.2	8426.7	8059.1
55°	8156.6	8037.9	7726.5	7234.9	6952.0	6991.2	6973.2	7420.3	8504.1	8821.9	8272.1
57.5°	8793.3	8904.6	8755.2	8474.4	7772.0	7643.8	7601.4	7933.1	9029.6	9200.1	8492.4
60°	9346.3	9530.7	9768.0	9587.9	9398.2	8918.3	8523.2	8515.7	9492.5	9452.3	8581.4
62.5°	9930.1	10027.6	10393.1	10504.3	10856.0	10768.1	10238.4	9253.1	9955.5	9636.6	8633.3
65°	9340.0	9470.3	10135.6	10742.7	12044.7	12171.9	11999.2	10624.0	10276.5	9730.9	8559.2
67.5°	8441.6	8513.6	9266.9	10320.0	12582.9	12775.7	12602.0	11969.5	10454.5	9689.6	8330.3
70°	7290.0	7374.7	8094.1	9530.7	12555.4	12580.8	12513.0	12093.5	10383.5	9495.7	7754.0
72.5°	5910.6	6017.6	6650.1	8141.8	11953.6	12063.8	11956.8	11847.7	10184.4	8953.3	6761.3
75°	4471.9	4613.8	5178.5	6491.2	10563.6	11118.8	11132.5	11469.4	9411.0	7675.6	4907.3
77.5°	3050.1	3185.7	3720.7	4945.4	8768.9	9655.7	9886.6	10255.3	7863.1	5672.2	2677.2
80°	1717.3	1704.6	2383.7	3533.2	6688.2	7466.9	7757.2	7742.4	5521.8	2912.4	545.6
82.5°	793.5	795.6	1219.4	2255.5	4528.0	5041.9	5159.4	4490.9	1937.7	493.7	173.7
85°	395.2	399.4	586.9	1131.5	2556.4	2953.7	2807.5	1868.8	415.3	144.1	103.8
87.5°	156.8	150.4	232.0	465.1	922.8	977.9	853.9	374.0	75.2	50.9	35.0
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°	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2	2499.2
2.5°	2506.6	2508.7	2518.3	2499.2	2504.5	2500.3	2497.1	2514.0	2513.0	2516.2	2510.9
5°	2514.0	2519.3	2528.9	2520.4	2528.9	2524.6	2527.8	2551.1	2554.3	2553.2	2553.2
7.5°	2534.2	2539.5	2557.5	2546.9	2566.0	2560.7	2561.7	2584.0	2588.2	2581.8	2579.7
10°	2576.5	2580.8	2606.2	2604.1	2611.5	2607.3	2603.0	2612.6	2610.4	2600.9	2596.7
12.5°	2625.3	2636.9	2665.5	2666.6	2676.1	2654.9	2632.7	2629.5	2623.2	2608.3	2605.2
15°	2698.4	2712.2	2755.6	2745.0	2738.6	2693.1	2656.0	2626.3	2600.9	2588.2	2576.5
17.5°	2803.3	2826.6	2887.0	2854.1	2807.5	2740.8	2676.1	2611.5	2557.5	2511.9	2493.9
20°	2936.8	2963.2	3014.1	2970.7	2899.7	2800.1	2695.2	2578.7	2461.1	2360.4	2345.6
22.5°	3095.7	3138.0	3175.1	3075.5	2970.7	2844.6	2695.2	2527.8	2332.9	2182.4	2145.4
25°	3281.1	3313.9	3302.3	3162.4	3010.9	2852.0	2665.5	2437.8	2162.3	1987.5	1957.8
27.5°	3482.4	3497.2	3407.1	3203.7	3015.2	2808.6	2581.8	2277.8	1963.1	1825.4	1796.8
30°	3730.3	3685.8	3514.1	3229.2	2972.8	2712.2	2432.5	2043.7	1801.0	1680.3	1647.4
32.5°	3997.2	3915.7	3590.4	3211.1	2879.5	2551.1	2201.5	1878.4	1693.0	1545.7	1518.2
35°	4505.8	4273.8	3701.7	3157.1	2717.5	2336.1	1978.0	1751.2	1578.6	1420.7	1395.3
37.5°	5192.3	4788.6	3857.4	3081.9	2525.7	2127.3	1811.6	1615.6	1466.3	1303.1	1262.8
40°	5726.2	5308.8	4107.4	3001.4	2348.8	1929.2	1690.9	1544.7	1392.1	1218.4	1183.4
42.5°	6234.8	5784.5	4414.7	2911.3	2166.5	1791.5	1637.9	1528.8	1372.0	1195.0	1162.2
45°	6684.0	6169.1	4679.5	2821.3	1961.0	1664.4	1598.7	1498.0	1343.4	1165.4	1133.6
47.5°	7047.4	6499.6	4909.4	2723.8	1774.6	1568.0	1547.8	1441.9	1288.3	1105.0	1066.9
50°	7375.8	6779.3	5068.3	2620.0	1592.3	1489.6	1464.1	1339.1	1179.2	1017.1	992.7
52.5°	7578.1	6969.0	5163.7	2636.9	1419.6	1401.6	1360.3	1232.1	1083.8	945.0	913.2
55°	7790.0	7148.0	5162.6	2541.6	1275.6	1269.2	1230.0	1131.5	1014.9	898.4	879.3
57.5°	7876.9	7163.9	5066.2	2093.4	1148.4	1108.2	1099.7	1047.8	946.1	835.9	814.7
60°	7935.2	7094.0	4884.0	1429.2	988.5	959.8	1001.2	966.2	874.0	758.6	737.4
62.5°	7878.0	7017.7	4406.2	1031.9	866.6	882.5	921.7	883.6	787.2	682.3	664.3
65°	7741.3	6726.4	3479.2	804.1	812.6	847.5	878.3	814.7	637.8	534.0	523.4
67.5°	7368.4	6172.3	2238.6	737.4	781.9	817.9	828.5	689.7	577.4	477.8	466.2
70°	6583.3	4955.0	862.4	695.0	751.1	767.0	723.6	632.5	530.8	445.0	434.4
72.5°	5149.9	3253.5	497.9	635.7	685.5	670.6	671.7	567.9	478.9	397.3	388.8
75°	3200.6	1178.1	442.8	565.7	580.6	608.1	573.2	492.6	412.1	363.4	352.8
77.5°	1058.4	334.8	410.0	487.3	520.2	500.1	479.9	420.6	352.8	314.7	309.4
80°	256.4	251.1	367.6	381.4	407.9	374.0	371.9	349.6	297.7	275.5	270.2
82.5°	157.9	180.1	292.4	237.3	272.3	275.5	313.6	288.2	217.2	225.7	218.2
85°	97.5	138.8	153.6	114.4	115.5	154.7	187.5	173.7	130.3	122.9	121.8
87.5°	32.8	28.6	32.8	24.4	32.8	56.2	84.8	80.5	54.0	37.1	35.0
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)