

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: LUMARK

Report Number: P285825

Luminaire Tested: **PRV-XL-C75-D-UNV-T4-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C75-D-UNV-T4-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25624 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

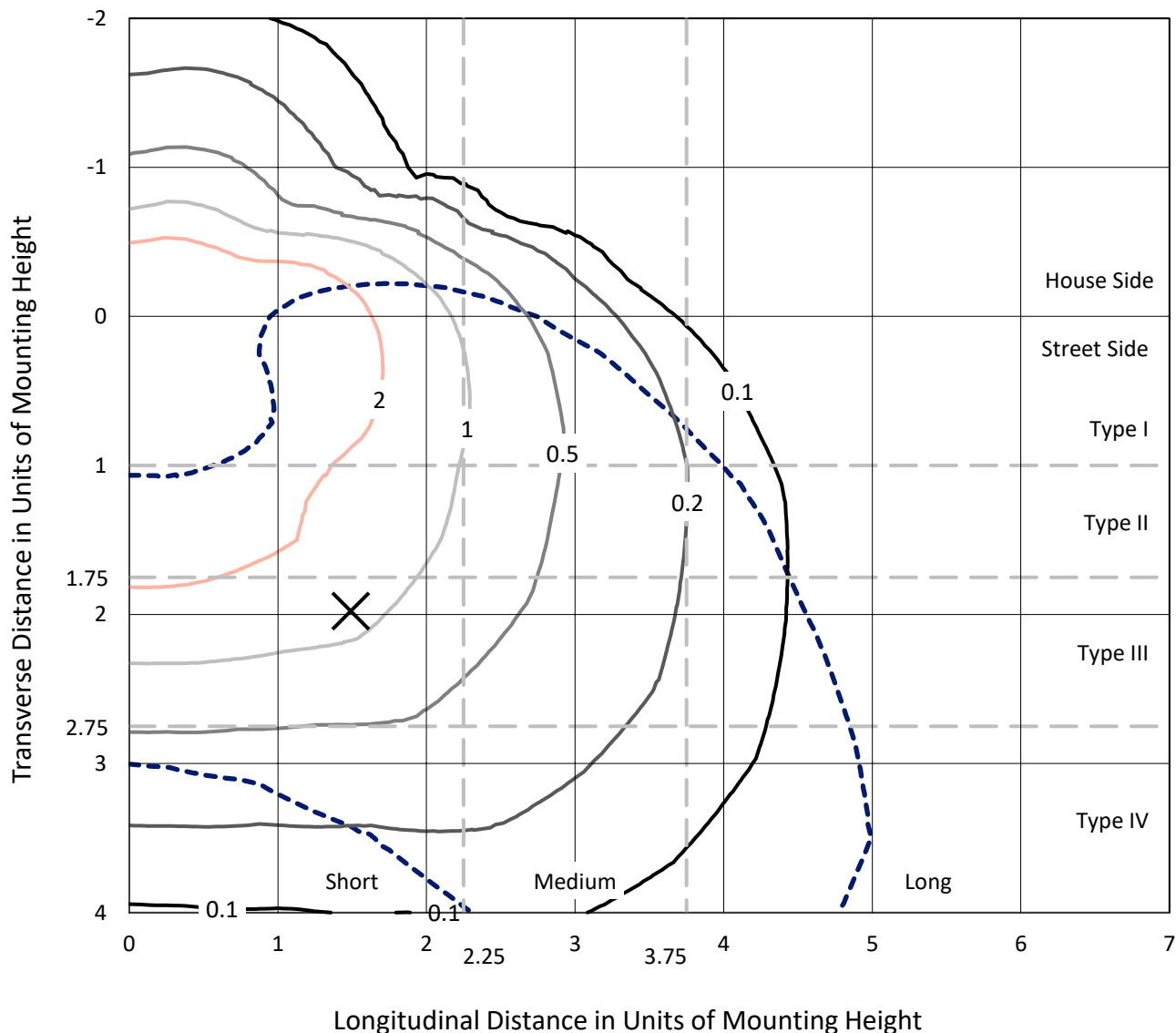
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

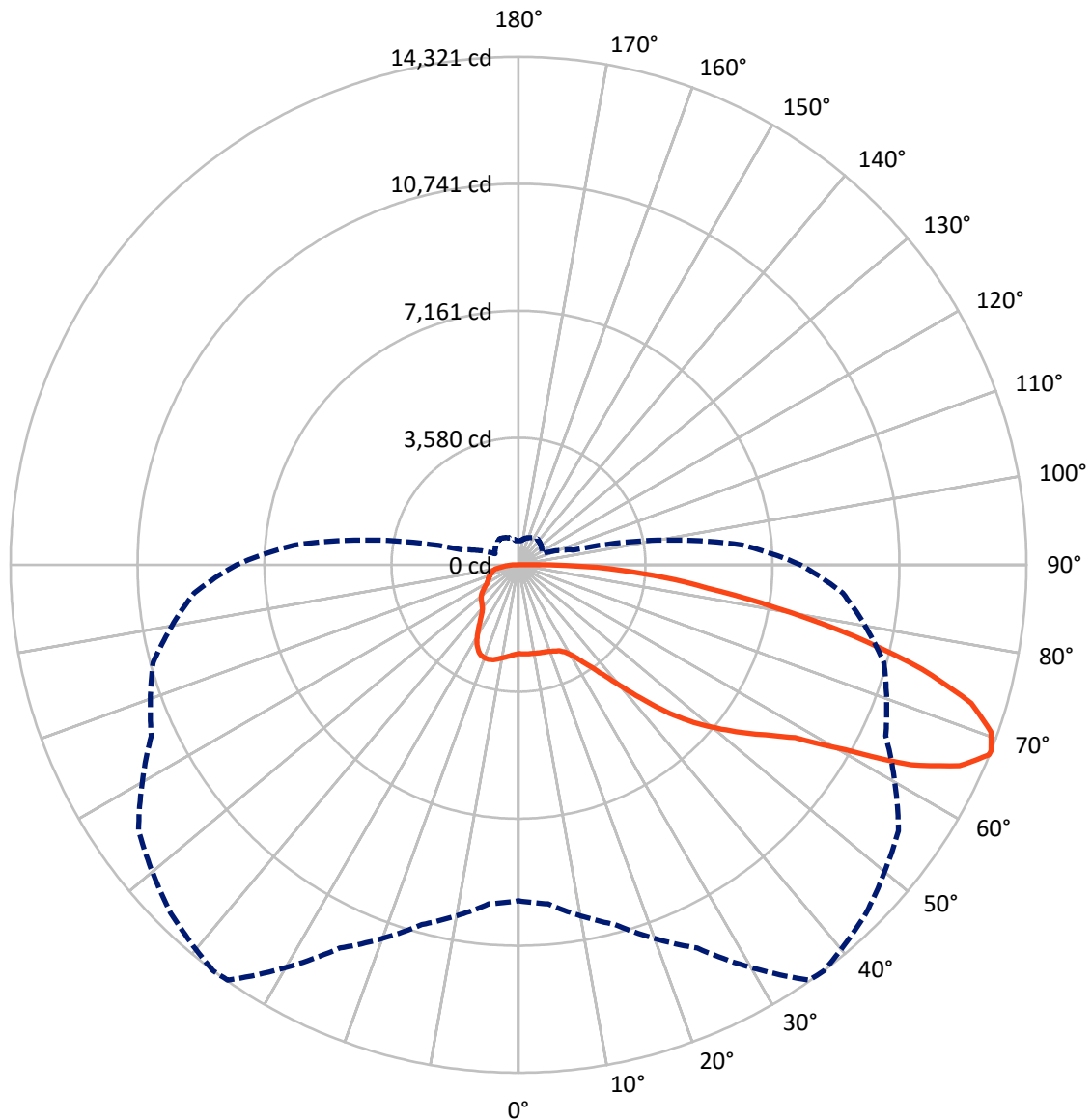
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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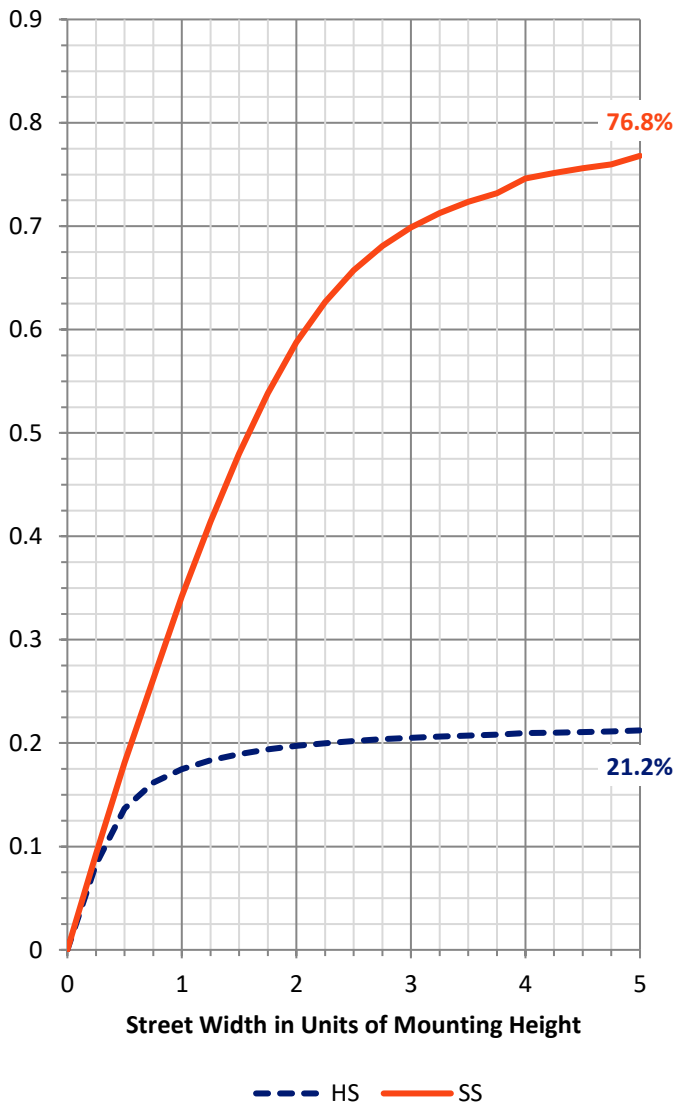
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5533.0	0.0	5533.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20091.0	0.0	20091.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	25624.0	0.0	25624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	0.9
10°-20°	756.3	3.0
20°-30°	1291.8	5.0
30°-40°	2058.1	8.0
40°-50°	3569.5	13.9
50°-60°	5174.2	20.2
60°-70°	6525.2	25.5
70°-80°	4835.1	18.9
80°-90°	1170.3	4.6
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°	25624.0	100.0
0°-180°	25624.0	100.0

Coefficient of Utilization

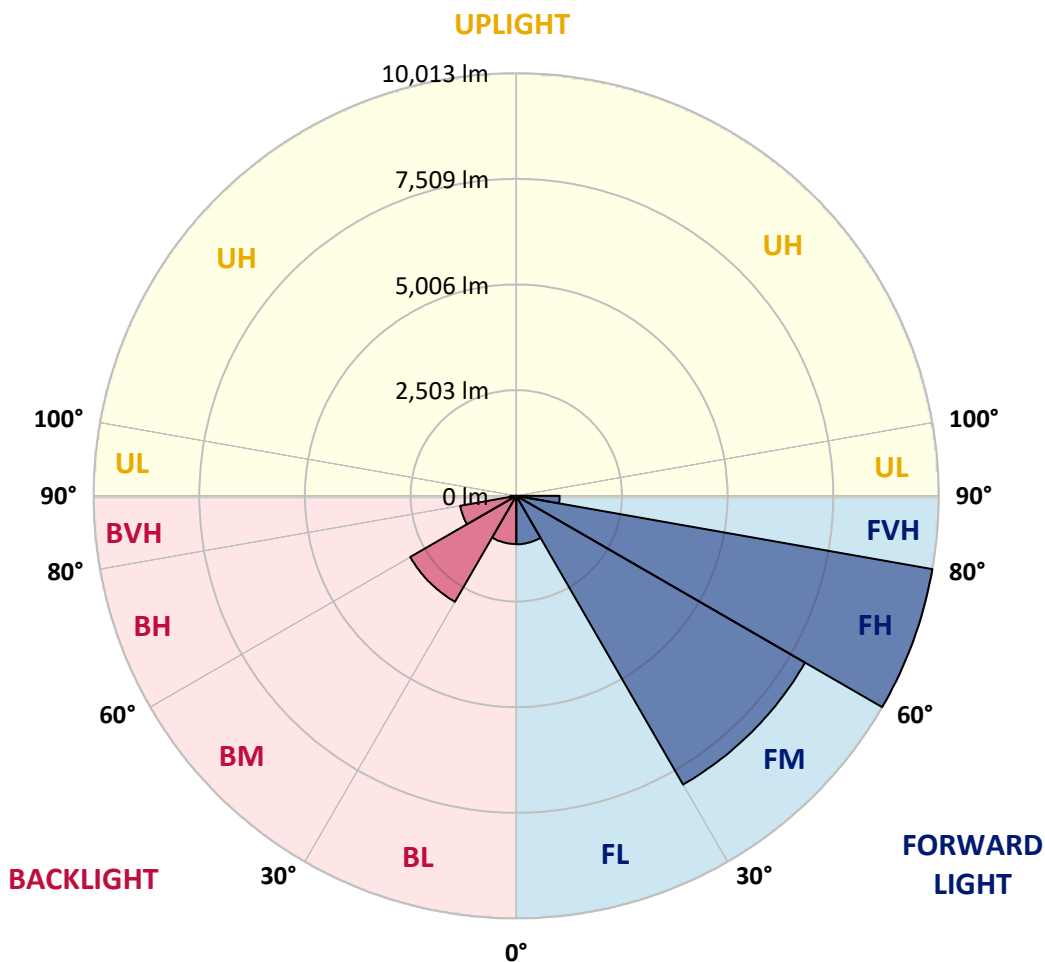


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.7	4.5			
FM (30°-60°)	7901.3	30.8			
FH (60°-80°)	10012.5	39.1			G4/12000
FVH (80°-90°)	1028.5	4.0			G5
BL (0°-30°)	1142.8	4.5	B3/2500		
BM (30°-60°)	2900.5	11.3	B3/5000		
BH (60°-80°)	1347.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	141.9	0.6			G2/225
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°	37°	45°	55°	65°	75°	85°
0°	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7
2.5°	2504.6	2511.5	2513.5	2509.6	2513.5	2517.4	2508.6	2507.6	2503.7	2488.0	2489.9
5°	2505.6	2514.5	2515.4	2512.5	2519.4	2523.3	2519.4	2515.4	2511.5	2488.9	2493.8
7.5°	2505.6	2512.5	2514.5	2512.5	2522.3	2529.2	2529.2	2532.1	2532.1	2506.6	2510.5
10°	2496.8	2502.7	2505.6	2510.5	2527.2	2537.0	2542.9	2556.7	2564.5	2546.9	2547.8
12.5°	2456.5	2461.4	2471.3	2499.7	2539.0	2550.8	2567.5	2592.0	2611.7	2611.7	2613.6
15°	2425.1	2430.0	2448.7	2487.0	2546.9	2562.6	2595.0	2636.2	2672.5	2692.2	2707.9
17.5°	2433.0	2438.9	2466.4	2498.8	2558.6	2574.4	2620.5	2680.4	2740.3	2782.5	2813.9
20°	2457.5	2461.4	2492.9	2530.2	2594.0	2604.8	2650.0	2723.6	2807.1	2876.8	2927.8
22.5°	2527.2	2525.3	2550.8	2565.5	2631.3	2641.1	2693.2	2768.8	2876.8	2981.8	3056.4
25°	2585.2	2594.0	2614.6	2626.4	2680.4	2689.2	2754.0	2837.5	2962.2	3097.7	3217.5
27.5°	2649.0	2656.8	2677.4	2704.0	2779.6	2784.5	2829.6	2932.7	3071.2	3237.1	3428.5
30°	2793.3	2792.3	2812.9	2841.4	2943.5	2952.4	2994.6	3100.6	3229.2	3436.4	3667.1
32.5°	3042.7	3040.7	3043.7	3082.9	3193.9	3214.5	3268.5	3408.9	3569.9	3770.2	4026.5
35°	3554.2	3533.6	3494.3	3462.9	3525.7	3549.3	3667.1	3840.9	4128.6	4522.3	4839.4
37.5°	4399.6	4367.2	4234.6	4055.0	3982.3	3979.4	4061.8	4325.9	4773.7	5563.0	5849.7
40°	5209.6	5210.6	5030.9	4787.4	4560.6	4548.8	4501.7	4828.6	5471.7	6540.0	6674.5
42.5°	5977.4	5972.5	5763.3	5540.5	5269.5	5234.1	5096.7	5348.0	6168.8	7344.1	7370.6
45°	6669.6	6653.9	6429.0	6285.7	6053.0	5982.3	5799.7	5879.2	6821.8	7989.1	7895.9
47.5°	7338.2	7322.5	7041.7	6903.2	6699.0	6640.1	6446.7	6482.0	7446.2	8526.2	8321.0
50°	8028.4	8023.5	7617.0	7482.5	7265.5	7241.0	7124.2	7149.7	8098.1	8972.9	8716.7
52.5°	8846.3	8719.6	8263.1	8005.8	7851.7	7850.7	7720.1	7785.9	8818.8	9371.6	8991.6
55°	9724.0	9564.0	9096.7	8726.5	8461.4	8465.3	8262.1	8368.1	9452.1	9728.0	9254.7
57.5°	10350.4	10317.1	10177.6	9807.5	9259.6	9194.8	8882.6	8966.1	10007.8	10097.1	9444.2
60°	10934.6	11077.0	11170.3	11052.5	10776.6	10589.0	9723.1	9598.4	10497.7	10422.1	9543.4
62.5°	11302.8	11376.5	11811.4	11973.4	12406.4	12421.1	11385.3	10364.2	10915.0	10626.3	9587.6
65°	10897.3	11006.3	11727.0	12360.3	13595.4	13666.1	13229.2	11641.6	11247.8	10697.0	9504.1
67.5°	9766.3	9880.2	10746.1	12045.1	14253.2	14301.3	13847.7	12967.0	11413.8	10682.3	9259.6
68°	9476.6	9598.4	10501.6	11926.3	14298.4	14321.0	13872.3	13077.0	11424.6	10665.6	9180.1
70°	8277.8	8397.6	9312.7	11183.0	14119.7	14134.4	13717.1	13192.8	11368.6	10522.3	8656.8
72.5°	6502.7	6623.4	7345.1	9486.4	13222.3	13350.9	13137.9	12862.9	11132.0	9963.6	7422.6
75°	4607.7	4731.4	5482.5	7424.6	11399.0	11756.4	12181.6	12230.7	10246.4	8556.6	5529.7
77.5°	3248.9	3350.0	4000.0	5550.3	9199.7	9662.2	10547.8	10620.5	8581.2	6529.2	2917.0
80°	2109.0	2195.4	2777.6	4067.7	6954.3	7353.9	8326.9	8026.5	6098.1	3550.3	507.6
82.5°	1273.4	1338.2	1769.3	2813.9	5088.8	5354.9	5751.6	4818.8	2829.6	501.7	177.7
85°	730.5	774.7	1092.8	1807.5	3585.6	3812.4	3867.4	2419.2	532.2	138.4	100.1
87.5°	374.1	396.7	586.2	1110.4	2118.8	2216.0	1940.1	866.0	106.0	61.9	50.1
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°	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7	2503.7
2.5°	2480.1	2487.0	2491.9	2508.6	2526.2	2535.1	2526.2	2540.0	2544.9	2541.0	2535.1
5°	2486.0	2496.8	2504.6	2538.0	2557.7	2572.4	2562.6	2582.2	2589.1	2581.2	2581.2
7.5°	2502.7	2517.4	2530.2	2574.4	2596.9	2616.6	2610.7	2624.4	2630.3	2620.5	2626.4
10°	2546.9	2561.6	2578.3	2633.3	2648.0	2666.6	2655.8	2666.6	2668.6	2661.7	2666.6
12.5°	2623.4	2633.3	2665.7	2721.6	2723.6	2728.5	2705.9	2685.3	2676.5	2663.7	2672.5
15°	2721.6	2739.3	2783.5	2830.6	2817.9	2807.1	2751.1	2684.3	2642.1	2610.7	2608.7
17.5°	2830.6	2862.0	2917.0	2947.5	2918.0	2868.9	2774.7	2661.7	2559.6	2503.7	2486.0
20°	2942.5	2991.6	3052.5	3058.4	3008.3	2914.1	2770.7	2603.8	2434.9	2330.9	2305.3
22.5°	3079.0	3142.8	3197.8	3168.4	3068.2	2929.8	2734.4	2501.7	2270.0	2111.9	2088.4
25°	3259.7	3322.5	3332.3	3245.9	3090.8	2900.3	2650.9	2349.5	2056.0	1859.6	1840.9
27.5°	3477.6	3511.0	3447.2	3286.2	3063.3	2812.0	2508.6	2138.4	1817.4	1646.5	1618.1
30°	3719.2	3707.4	3531.6	3287.2	2982.8	2661.7	2292.6	1898.9	1628.9	1481.6	1454.1
32.5°	4025.5	3947.9	3617.1	3243.0	2850.3	2459.5	2038.3	1707.4	1499.3	1349.0	1322.5
35°	4634.2	4398.6	3732.9	3173.3	2674.5	2217.0	1815.4	1569.0	1388.3	1215.5	1191.0
37.5°	5560.1	5072.1	3942.0	3096.7	2479.1	1968.6	1644.6	1461.0	1300.9	1116.3	1078.0
40°	6372.1	5816.4	4275.9	3025.0	2279.8	1780.1	1546.4	1408.9	1252.8	1066.3	1027.0
42.5°	6995.5	6412.3	4657.8	2939.6	2071.7	1640.6	1505.1	1402.1	1246.9	1066.3	1029.9
45°	7499.2	6904.2	4997.5	2846.3	1870.4	1530.7	1467.8	1389.3	1235.1	1060.4	1026.0
47.5°	7896.9	7271.4	5265.6	2739.3	1661.3	1456.1	1429.5	1345.1	1204.7	1042.7	1008.3
50°	8241.5	7534.6	5415.8	2613.6	1475.7	1397.1	1375.5	1274.4	1143.8	990.7	968.1
52.5°	8482.0	7748.6	5472.7	2561.6	1343.1	1330.4	1301.9	1202.7	1078.0	928.8	903.3
55°	8662.7	7858.6	5425.6	2442.8	1210.6	1227.3	1214.5	1147.8	1031.9	890.5	865.0
57.5°	8755.0	7894.9	5291.1	1995.1	1084.9	1104.6	1113.4	1117.3	1025.0	901.3	877.8
60°	8787.4	7837.9	4997.5	1424.6	950.4	989.7	1038.8	1053.5	994.6	860.1	840.4
62.5°	8738.3	7689.7	4422.2	984.8	848.3	918.0	982.8	978.9	916.0	799.2	772.7
65°	8546.8	7326.4	3362.8	794.3	813.9	885.6	957.3	909.2	848.3	740.3	726.6
67.5°	8083.4	6561.6	1886.1	733.4	803.1	867.0	913.1	855.2	787.4	685.3	679.4
68°	7945.9	6336.7	1610.2	729.5	801.2	861.1	901.3	841.4	775.6	676.5	672.6
70°	7144.8	5178.2	726.6	716.7	789.4	839.5	868.9	803.1	732.4	646.0	640.2
72.5°	5520.8	3206.7	488.0	681.4	759.9	807.1	825.7	763.9	705.0	608.7	600.9
75°	3272.4	881.7	462.4	620.5	709.9	775.6	795.3	733.4	663.7	552.8	540.0
77.5°	805.1	318.1	447.7	551.8	657.8	723.6	755.0	712.8	628.4	497.8	485.0
80°	244.5	253.3	426.1	477.2	592.0	646.0	664.7	664.7	581.2	350.5	369.2
82.5°	161.0	203.2	363.3	358.4	470.3	535.1	499.8	501.7	456.6	156.1	182.6
85°	101.1	165.9	245.5	234.7	299.5	327.9	355.4	365.2	321.1	45.2	2.9
87.5°	52.0	70.7	86.4	92.3	118.8	169.9	227.8	223.9	164.9	40.3	0.0
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)