

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: P286948

Luminaire Tested: **PRV-C40-D-UNV-T2-BZ-7050**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T2-BZ-7050
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17484 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

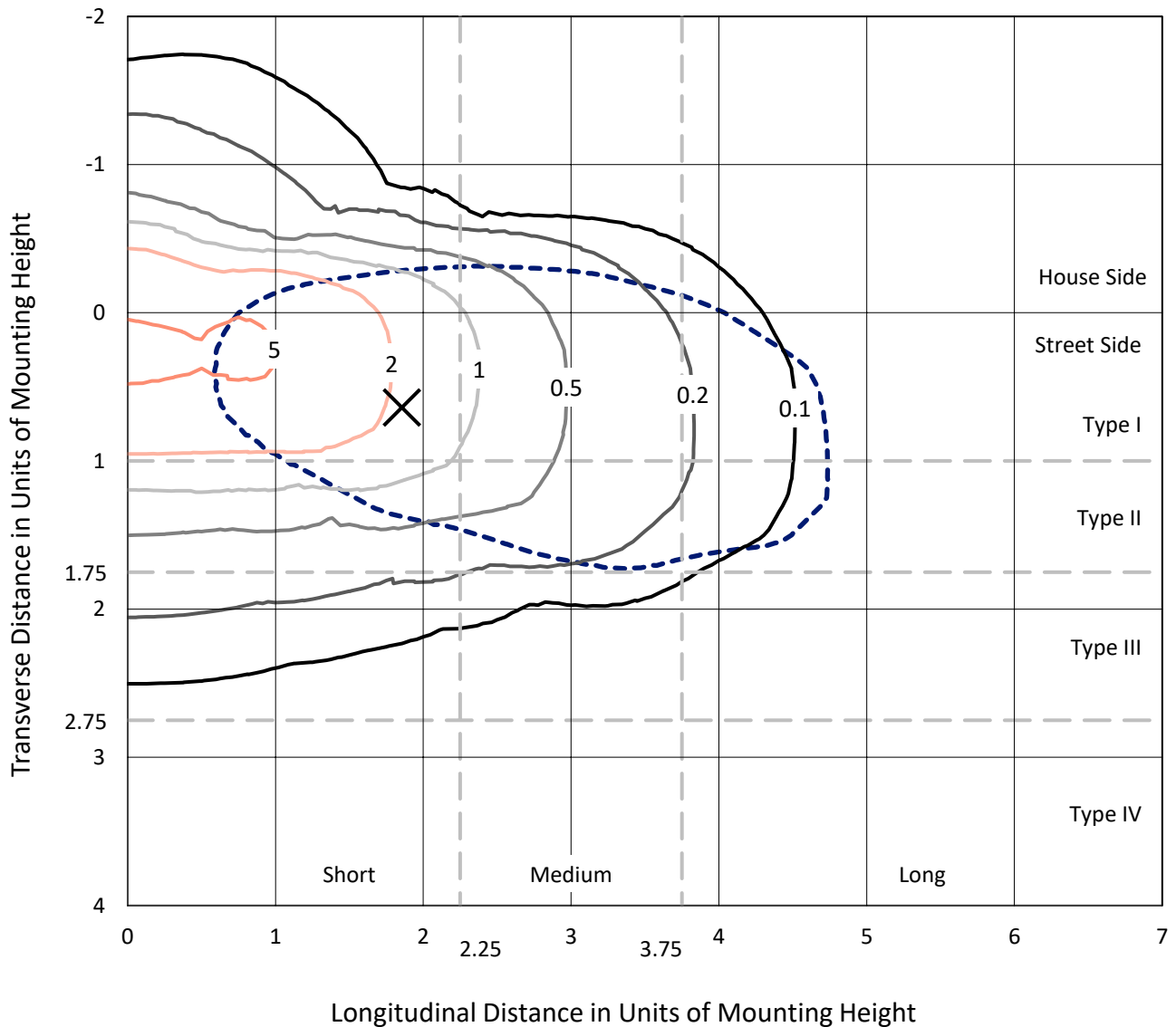
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

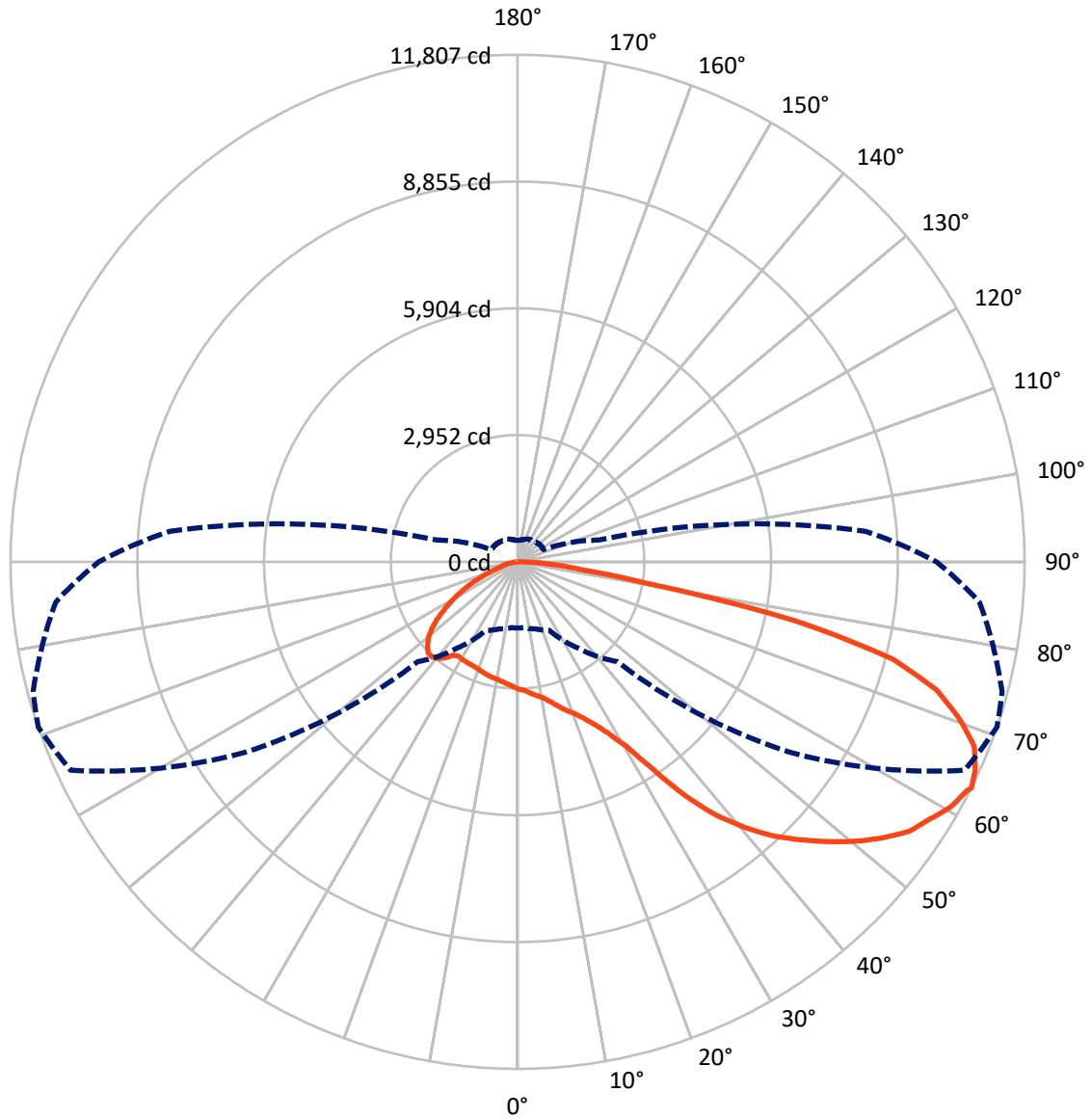
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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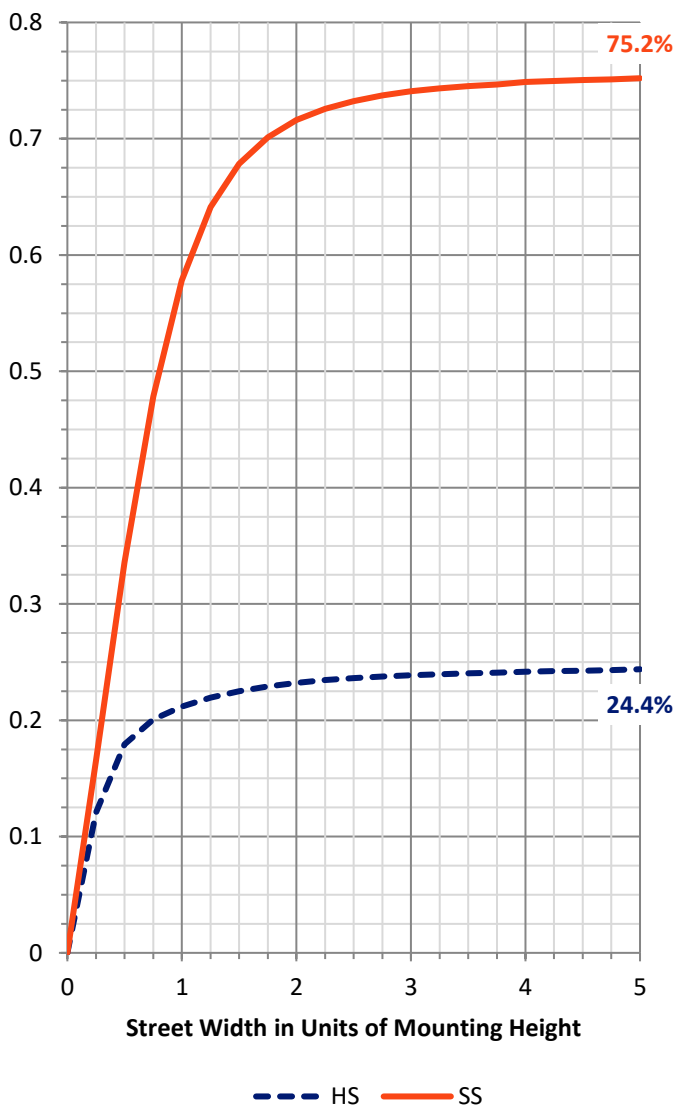
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.2	0.0	4336.2
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	13147.8	0.0	13147.8
	% Fixture	75.2	0.0	75.2
Total	Lumens	17484.0	0.0	17484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.6
10°-20°	870.1	5.0
20°-30°	1469.2	8.4
30°-40°	2207.9	12.6
40°-50°	3034.9	17.4
50°-60°	3528.9	20.2
60°-70°	3508.4	20.1
70°-80°	2214.4	12.7
80°-90°	364.8	2.1
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°	17484.0	100.0
0°-180°	17484.0	100.0

Coefficient of Utilization



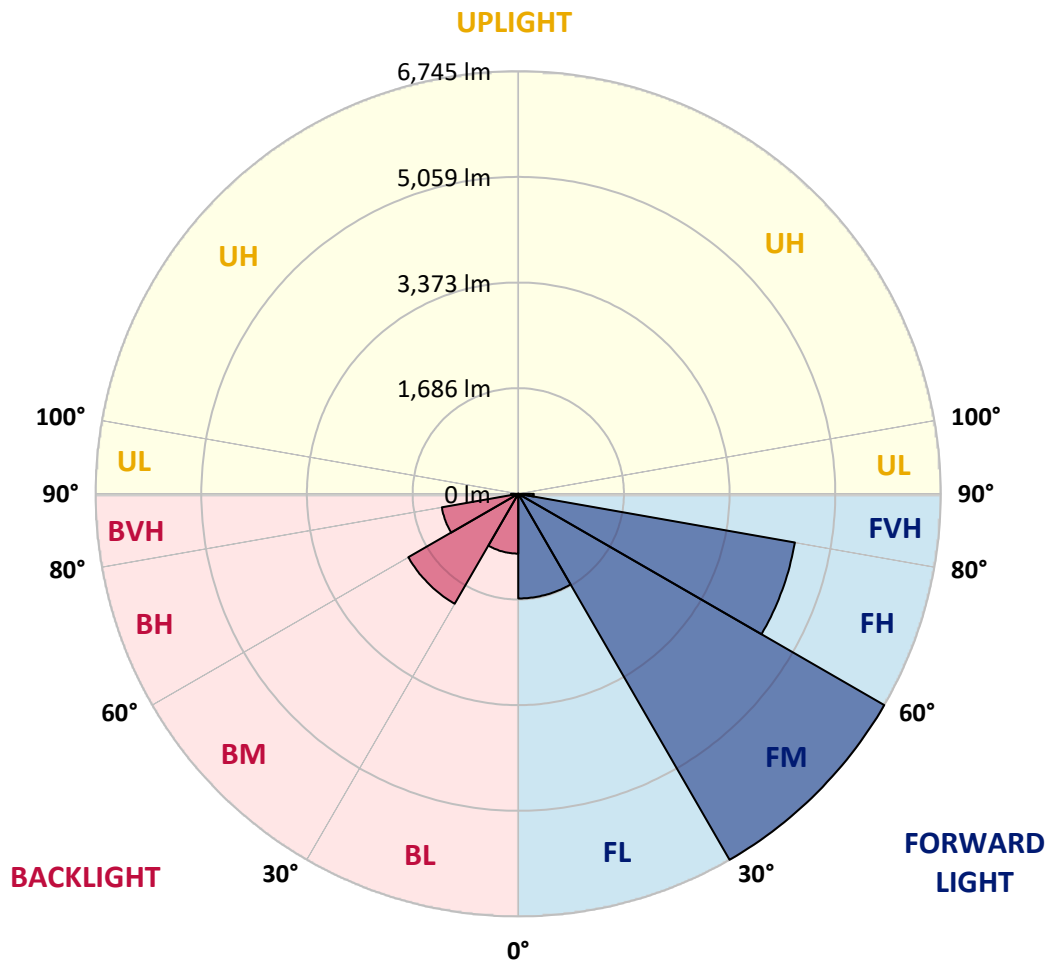
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.2	9.6			
FM (30°-60°)	6745.3	38.6			
FH (60°-80°)	4484.1	25.6			G2/5000
FVH (80°-90°)	248.2	1.4			G3/500
BL (0°-30°)	954.4	5.5	B2/1000		
BM (30°-60°)	2026.4	11.6	B2/2500		
BH (60°-80°)	1238.8	7.1	B3/2500		G3/2500
BVH (80°-90°)	116.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8
2.5°	3177.7	3172.6	3165.8	3122.2	3114.6	3088.1	3059.9	3029.2	2995.1	2999.4	2957.5
5°	3356.0	3344.9	3340.7	3275.8	3228.0	3199.0	3160.6	3090.7	3071.0	3055.7	2974.6
7.5°	3499.4	3504.5	3495.1	3433.7	3385.9	3338.1	3269.9	3166.6	3141.0	3108.6	3028.4
10°	3615.4	3628.2	3621.4	3551.4	3510.5	3463.6	3380.8	3275.0	3216.1	3169.2	3041.2
12.5°	3755.4	3747.7	3749.4	3682.9	3647.0	3583.0	3522.4	3402.1	3334.7	3269.9	3100.0
15°	3930.3	3920.1	3907.3	3843.3	3789.5	3752.0	3687.1	3553.2	3479.8	3418.3	3193.9
17.5°	4085.6	4049.8	4043.8	3973.0	3930.3	3880.0	3835.6	3721.3	3629.9	3550.6	3297.2
20°	4189.7	4171.8	4147.9	4106.9	4089.0	4051.5	3996.0	3870.6	3768.2	3687.1	3385.1
22.5°	4259.7	4249.4	4249.4	4236.6	4245.2	4229.8	4185.4	4066.8	3961.9	3846.7	3519.9
25°	4280.2	4248.6	4293.8	4343.3	4403.0	4429.5	4388.5	4306.6	4201.7	4089.0	3693.9
27.5°	4294.7	4289.6	4345.9	4430.3	4581.4	4642.0	4642.0	4595.9	4528.5	4395.4	3946.5
30°	4296.4	4298.1	4374.0	4504.6	4708.5	4876.6	4885.2	5008.0	4973.0	4870.7	4333.1
32.5°	4174.4	4170.1	4284.4	4512.3	4806.7	5074.6	5213.7	5550.7	5712.0	5718.8	5174.4
35°	3927.8	3959.3	4139.4	4437.2	4875.8	5299.9	5621.6	6308.5	6657.5	6648.9	5996.2
37.5°	3733.2	3758.8	3966.2	4357.0	4921.0	5505.5	6079.8	7149.8	7472.4	7444.2	6650.6
40°	3556.6	3586.4	3792.9	4217.0	4905.6	5739.3	6589.2	7877.7	8122.6	8083.3	7266.7
42.5°	3344.9	3367.1	3571.9	4021.6	4862.1	5899.7	7047.4	8542.4	8725.9	8620.1	7748.8
45°	3135.0	3151.2	3374.8	3765.6	4724.7	6005.5	7504.8	9146.5	9231.9	9147.4	8281.3
47.5°	2868.8	2885.0	3143.6	3542.1	4488.4	6002.1	7932.3	9656.0	9736.2	9623.5	8682.4
50°	2205.8	2222.0	2751.9	3313.4	4159.0	5921.1	8274.5	10127.8	10227.7	10063.0	9134.6
52.5°	2004.4	2012.1	2156.3	3029.2	3738.3	5694.9	8523.6	10550.2	10672.3	10493.1	9527.1
55°	1912.3	1905.4	1964.3	2439.6	3414.1	5334.8	8713.1	10950.4	11075.0	10895.0	9877.0
57.5°	1767.2	1778.3	1878.1	2088.9	3120.5	4677.8	8645.7	11325.9	11313.9	11175.7	10220.9
60°	1663.1	1668.2	1767.2	1917.4	2769.0	3930.3	8360.7	11534.1	11591.3	11406.9	10517.8
62.5°	1554.7	1561.5	1646.0	1782.5	2495.1	3381.6	7903.3	11522.1	11738.9	11625.4	10786.6
63°	1541.1	1539.4	1616.2	1764.6	2453.2	3288.6	7735.2	11484.6	11807.1	11679.2	10799.4
65°	1433.5	1440.4	1522.3	1658.8	2274.1	3033.5	7259.9	11231.2	11711.6	11722.7	10917.2
67.5°	1277.4	1287.6	1357.6	1483.9	1931.9	2660.6	6012.4	11085.3	11469.2	11536.7	10768.7
70°	1093.1	1104.2	1177.6	1294.5	1637.5	2271.5	4468.7	10452.1	10900.1	11020.4	10098.0
72.5°	866.1	880.6	973.6	1091.4	1343.1	1866.2	3145.3	9417.9	10200.4	10225.1	9161.9
75°	564.9	576.0	710.8	875.5	1086.3	1477.9	2077.8	7210.4	9009.2	9161.1	7852.9
77.5°	333.6	349.0	415.6	482.1	687.8	1113.6	1349.9	3839.9	6636.1	7120.0	6196.7
80°	90.5	99.8	314.9	367.8	439.5	480.4	831.1	2119.6	3071.9	3900.4	4173.5
82.5°	46.9	58.0	175.8	236.4	251.7	244.0	384.0	985.6	1501.8	1759.5	2095.7
85°	21.3	25.6	58.0	86.2	70.0	66.6	128.0	514.5	839.6	974.5	1053.8
87.5°	7.7	9.4	20.5	31.6	18.8	14.5	17.9	155.3	324.3	409.6	372.0
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°	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8
2.5°	2927.7	2953.3	2919.1	2879.9	2852.6	2837.2	2824.4	2795.4	2804.0	2815.0	2813.3
5°	2955.8	2959.3	2879.9	2829.6	2769.8	2735.7	2722.9	2673.4	2678.5	2683.6	2682.8
7.5°	2973.8	2942.2	2845.8	2772.4	2709.2	2657.2	2608.5	2559.1	2549.7	2559.1	2566.7
10°	2978.9	2931.1	2821.9	2719.5	2634.1	2559.9	2517.2	2439.6	2425.9	2444.7	2456.7
12.5°	3025.8	2946.5	2804.8	2684.5	2584.7	2486.5	2412.3	2326.1	2285.1	2300.5	2315.0
15°	3083.8	2973.8	2790.3	2640.1	2507.0	2396.9	2299.7	2206.6	2155.4	2175.9	2186.2
17.5°	3153.8	3024.1	2789.4	2567.6	2424.2	2291.1	2193.0	2092.3	1997.6	2030.9	2019.8
20°	3231.5	3067.6	2784.3	2500.2	2322.7	2162.3	2031.7	1965.2	1867.0	1867.9	1853.4
22.5°	3323.6	3127.4	2778.4	2436.2	2199.0	2036.8	1873.9	1797.1	1716.8	1687.0	1677.6
25°	3468.7	3222.9	2788.6	2392.7	2092.3	1873.0	1681.9	1582.9	1548.7	1511.2	1495.0
27.5°	3665.8	3356.0	2810.8	2337.2	1958.3	1699.8	1465.1	1369.6	1345.7	1317.5	1298.7
30°	3955.1	3546.3	2837.2	2274.1	1803.0	1465.1	1249.2	1180.1	1141.7	1127.2	1116.1
32.5°	4689.8	4081.3	2857.7	2191.3	1641.8	1239.0	1082.8	1013.7	960.0	934.4	936.9
35°	5443.2	4729.9	3002.8	2092.3	1443.8	1050.4	936.9	851.6	785.9	768.8	756.9
37.5°	6033.7	5263.2	3334.7	1992.5	1254.4	941.2	793.6	719.3	663.9	659.6	686.1
40°	6590.9	5753.0	3608.6	1877.3	1058.1	816.6	648.5	618.6	593.9	599.9	635.7
42.5°	7053.4	6192.4	3833.9	1711.7	899.4	675.8	553.8	585.4	593.0	600.7	603.3
45°	7506.5	6538.9	3955.9	1495.0	759.4	562.3	543.6	602.4	615.2	626.3	612.7
47.5°	7974.1	6929.7	3954.2	1228.8	654.5	549.5	564.9	602.4	624.6	638.3	634.0
50°	8347.9	7219.8	3903.9	966.8	628.0	579.4	576.0	577.7	613.5	622.9	623.8
52.5°	8702.0	7493.7	3696.5	794.4	664.7	613.5	588.8	568.3	583.7	605.8	581.1
55°	9047.6	7731.8	3328.7	747.5	682.6	642.5	615.2	579.4	564.0	558.9	567.4
57.5°	9331.7	7929.7	2897.0	726.2	687.8	645.1	660.5	578.5	561.5	522.2	518.0
60°	9609.0	8117.5	2472.0	696.3	683.5	640.0	616.1	593.0	552.1	493.2	471.9
62.5°	9781.4	8175.5	2027.4	670.7	664.7	634.0	600.7	589.6	542.7	497.5	491.5
63°	9756.7	8134.5	1949.8	666.4	660.5	629.7	601.6	585.4	538.4	502.6	500.0
65°	9816.4	7899.9	1606.8	640.0	642.5	617.8	588.8	559.8	500.0	474.4	470.2
67.5°	9533.1	7471.5	1159.6	591.3	615.2	599.0	563.2	510.3	454.8	421.5	419.8
70°	8789.9	6660.0	797.0	504.3	571.7	572.6	550.4	482.1	421.5	384.0	389.1
72.5°	7739.5	5819.5	513.7	392.5	491.5	526.5	513.7	455.7	376.3	308.0	302.9
75°	6612.2	4746.1	378.9	316.6	362.7	468.5	448.8	371.2	315.7	272.2	268.8
77.5°	4962.8	3432.0	335.3	270.5	269.6	317.4	369.5	365.2	374.6	450.5	440.3
80°	3435.4	2421.7	267.1	219.3	164.7	200.5	311.5	386.5	482.1	279.9	262.8
82.5°	1988.2	1314.9	87.0	69.1	100.7	129.7	228.7	480.4	319.1	167.2	150.2
85°	936.1	499.2	37.5	21.3	29.9	43.5	128.8	406.2	203.9	83.6	15.4
87.5°	290.1	137.4	8.5	6.8	7.7	9.4	54.6	213.3	139.9	9.4	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)