

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: P286944

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

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286944
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17172 lumens
Efficiency: N/A
Efficacy: 131.1 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

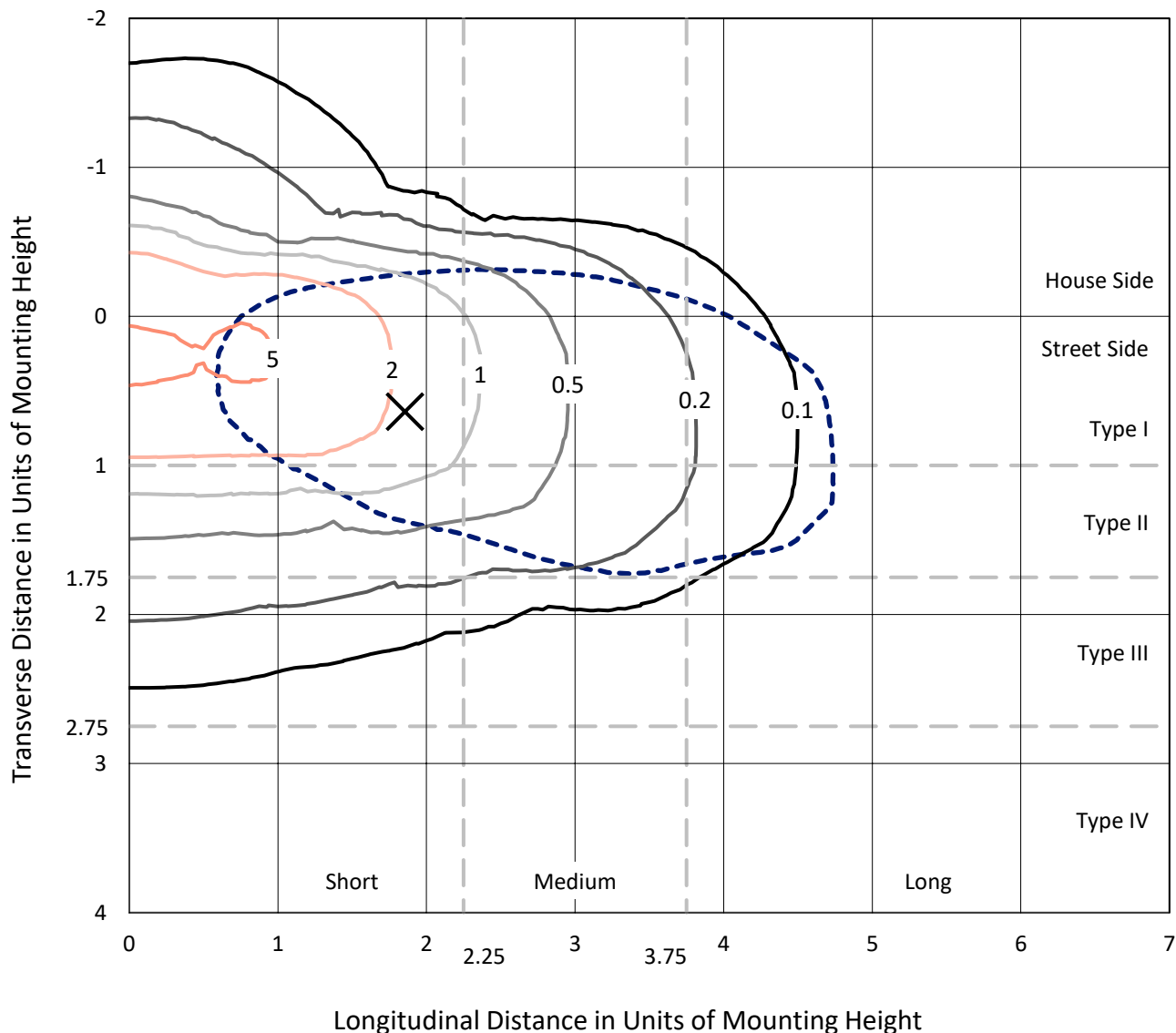
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

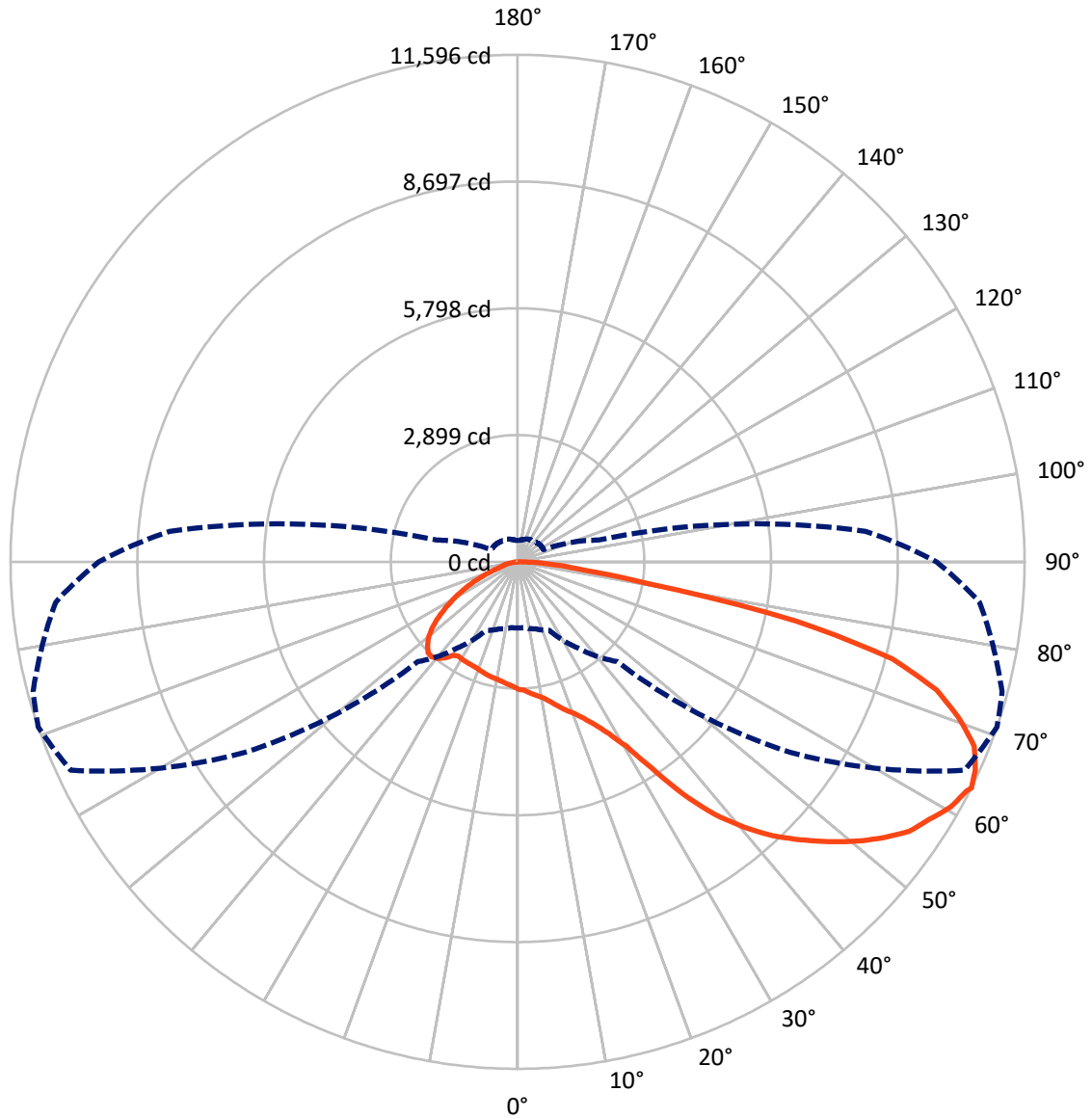
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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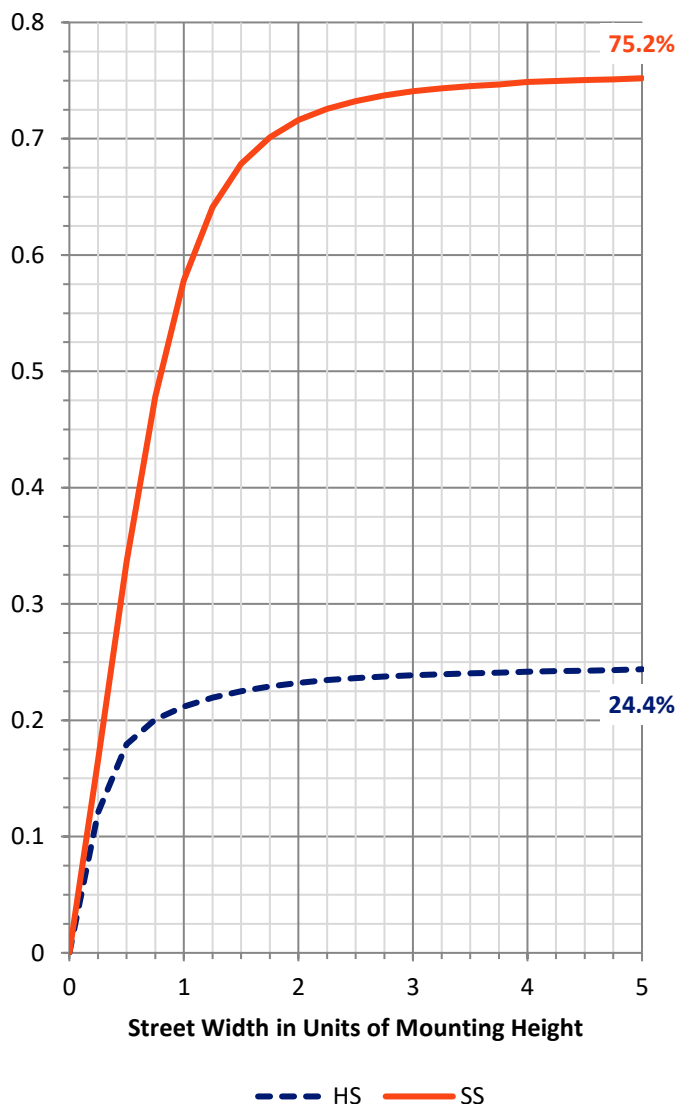
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4258.9	0.0	4258.9
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	12913.1	0.0	12913.1
	% Fixture	75.2	0.0	75.2
Total	Lumens	17172.0	0.0	17172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	1.6
10°-20°	854.6	5.0
20°-30°	1442.9	8.4
30°-40°	2168.5	12.6
40°-50°	2980.8	17.4
50°-60°	3465.9	20.2
60°-70°	3445.8	20.1
70°-80°	2174.9	12.7
80°-90°	358.3	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°	17172.0	100.0
0°-180°	17172.0	100.0

Coefficient of Utilization



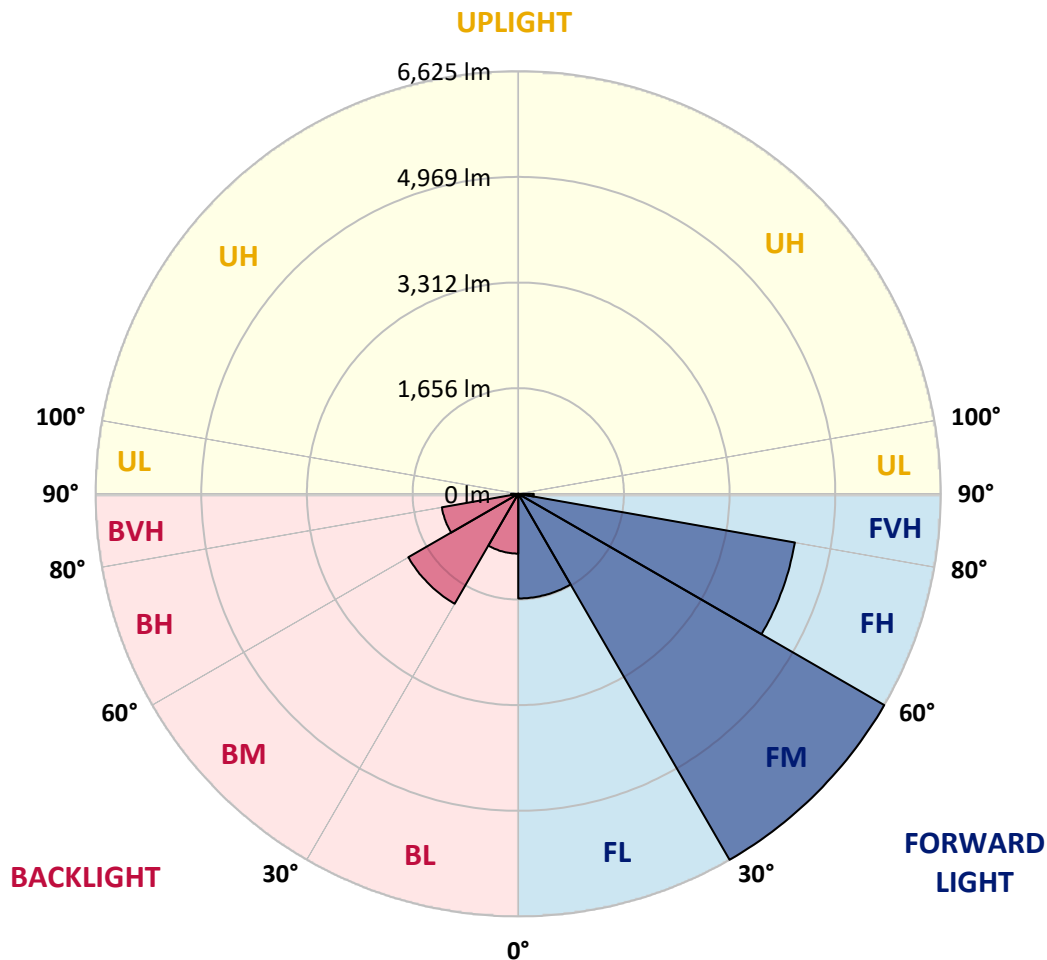
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.4	9.6			
FM (30°-60°)	6625.0	38.6			
FH (60°-80°)	4404.0	25.6			G2/5000
FVH (80°-90°)	243.7	1.4			G3/500
BL (0°-30°)	937.4	5.5	B2/1000		
BM (30°-60°)	1990.2	11.6	B2/2500		
BH (60°-80°)	1216.7	7.1	B3/2500		G3/2500
BVH (80°-90°)	114.5	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°	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8
2.5°	3121.0	3116.0	3109.3	3066.5	3059.0	3033.0	3005.3	2975.2	2941.6	2945.8	2904.8
5°	3296.2	3285.3	3281.1	3217.4	3170.4	3141.9	3104.2	3035.5	3016.2	3001.1	2921.5
7.5°	3436.9	3442.0	3432.8	3372.4	3325.5	3278.6	3211.5	3110.1	3085.0	3053.1	2974.3
10°	3550.9	3563.5	3556.8	3488.1	3447.8	3401.7	3320.5	3216.5	3158.7	3112.6	2986.9
12.5°	3688.4	3680.8	3682.5	3617.1	3581.9	3519.1	3459.6	3341.4	3275.2	3211.5	3044.7
15°	3860.2	3850.1	3837.5	3774.7	3721.9	3685.0	3621.3	3489.7	3417.7	3357.3	3136.9
17.5°	4012.7	3977.5	3971.6	3902.1	3860.2	3810.7	3767.1	3654.8	3565.2	3487.2	3238.3
20°	4115.0	4097.4	4073.9	4033.7	4016.1	3979.2	3924.7	3801.5	3700.9	3621.3	3324.6
22.5°	4183.7	4173.6	4173.6	4161.0	4169.4	4154.3	4110.8	3994.3	3891.2	3778.0	3457.1
25°	4203.8	4172.8	4217.2	4265.8	4324.5	4350.4	4310.2	4229.8	4126.7	4016.1	3628.0
27.5°	4218.0	4213.0	4268.3	4351.3	4499.6	4559.1	4559.1	4513.9	4447.7	4316.9	3876.1
30°	4219.7	4221.4	4296.0	4424.2	4624.5	4789.6	4798.0	4918.7	4884.3	4783.7	4255.7
32.5°	4099.9	4095.7	4208.0	4431.7	4720.9	4984.0	5120.6	5451.7	5610.1	5616.8	5082.1
35°	3857.7	3888.7	4065.5	4358.0	4788.8	5205.3	5521.2	6195.9	6538.7	6530.3	5889.2
37.5°	3666.6	3691.7	3895.4	4279.2	4833.2	5407.3	5971.3	7022.2	7339.0	7311.4	6532.0
40°	3493.1	3522.4	3725.2	4141.8	4818.1	5636.9	6471.6	7737.1	7977.6	7939.1	7137.1
42.5°	3285.3	3307.0	3508.2	3949.8	4775.4	5794.5	6921.7	8390.0	8570.2	8466.2	7610.6
45°	3079.1	3095.0	3314.6	3698.4	4640.4	5898.4	7370.9	8983.3	9067.1	8984.2	8133.5
47.5°	2817.6	2833.5	3087.5	3478.9	4408.3	5895.0	7790.7	9483.7	9562.4	9451.8	8527.4
50°	2166.4	2182.3	2702.8	3254.2	4084.8	5815.4	8126.8	9947.1	10045.2	9883.4	8971.6
52.5°	1968.6	1976.2	2117.8	2975.2	3671.6	5593.3	8371.5	10362.0	10481.8	10305.8	9357.1
55°	1878.1	1871.4	1929.2	2396.1	3353.1	5239.6	8557.6	10755.0	10877.4	10700.5	9700.7
57.5°	1735.7	1746.5	1844.6	2051.6	3064.8	4594.3	8491.4	11123.8	11112.0	10976.3	10038.5
60°	1633.4	1638.4	1735.7	1883.2	2719.6	3860.2	8211.5	11328.3	11384.4	11203.4	10330.1
62.5°	1527.0	1533.7	1616.6	1750.7	2450.5	3321.3	7762.3	11316.5	11529.4	11417.9	10594.1
63°	1513.6	1511.9	1587.3	1733.1	2409.5	3229.9	7597.2	11279.7	11596.4	11470.7	10606.7
65°	1408.0	1414.7	1495.1	1629.2	2233.5	2979.4	7130.3	11030.7	11502.6	11513.5	10722.3
67.5°	1254.6	1264.7	1333.4	1457.4	1897.4	2613.1	5905.1	10887.4	11264.6	11330.8	10576.5
70°	1073.6	1084.5	1156.5	1271.4	1608.3	2231.0	4389.0	10265.6	10705.6	10823.7	9917.8
72.5°	850.6	864.9	956.2	1071.9	1319.1	1832.9	3089.1	9249.8	10018.4	10042.7	8998.4
75°	554.8	565.7	698.1	859.9	1066.9	1451.5	2040.7	7081.7	8848.4	8997.6	7712.8
77.5°	327.7	342.8	408.1	473.5	675.5	1093.7	1325.8	3771.3	6517.7	6992.9	6086.1
80°	88.8	98.1	309.2	361.2	431.6	471.8	816.3	2081.8	3017.1	3830.8	4099.0
82.5°	46.1	57.0	172.6	232.1	247.2	239.7	377.1	968.0	1475.0	1728.1	2058.3
85°	21.0	25.1	57.0	84.6	68.7	65.4	125.7	505.4	824.7	957.1	1035.0
87.5°	7.5	9.2	20.1	31.0	18.4	14.2	17.6	152.5	318.5	402.3	365.4
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°	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8	2914.8
2.5°	2875.4	2900.6	2867.1	2828.5	2801.7	2786.6	2774.0	2745.5	2753.9	2764.8	2763.1
5°	2903.1	2906.4	2828.5	2779.1	2720.4	2686.9	2674.3	2625.7	2630.7	2635.7	2634.9
7.5°	2920.7	2889.7	2795.0	2722.9	2660.9	2609.8	2562.0	2513.4	2504.2	2513.4	2520.9
10°	2925.7	2878.8	2771.5	2670.9	2587.1	2514.2	2472.3	2396.1	2382.6	2401.1	2412.8
12.5°	2971.8	2893.9	2754.8	2636.6	2538.5	2442.2	2369.2	2284.6	2244.4	2259.5	2273.7
15°	3028.8	2920.7	2740.5	2593.0	2462.3	2354.2	2258.6	2167.3	2117.0	2137.1	2147.1
17.5°	3097.5	2970.1	2739.7	2521.8	2381.0	2250.2	2153.9	2055.0	1961.9	1994.6	1983.7
20°	3173.8	3012.9	2734.6	2455.6	2281.2	2123.7	1995.5	1930.1	1833.7	1834.5	1820.3
22.5°	3264.3	3071.5	2728.8	2392.7	2159.7	2000.5	1840.4	1765.0	1686.2	1656.9	1647.7
25°	3406.8	3165.4	2738.8	2350.0	2055.0	1839.6	1651.8	1554.6	1521.1	1484.2	1468.3
27.5°	3600.4	3296.2	2760.6	2295.5	1923.4	1669.4	1439.0	1345.1	1321.6	1294.0	1275.6
30°	3884.5	3483.0	2786.6	2233.5	1770.9	1439.0	1226.9	1159.1	1121.3	1107.1	1096.2
32.5°	4606.1	4008.5	2806.7	2152.2	1612.5	1216.9	1063.5	995.6	942.8	917.7	920.2
35°	5346.1	4645.5	2949.2	2055.0	1418.0	1031.7	920.2	836.4	771.9	755.1	743.4
37.5°	5926.0	5169.2	3275.2	1956.9	1232.0	924.4	779.4	706.5	652.0	647.8	673.8
40°	6473.3	5650.3	3544.2	1843.8	1039.2	802.0	636.9	607.6	583.3	589.2	624.4
42.5°	6927.5	6081.9	3765.5	1681.2	883.3	663.8	543.9	574.9	582.5	590.0	592.5
45°	7372.5	6422.2	3885.3	1468.3	745.9	552.3	533.9	591.7	604.3	615.1	601.7
47.5°	7831.8	6806.0	3883.6	1206.8	642.8	539.7	554.8	591.7	613.5	626.9	622.7
50°	8198.9	7091.0	3834.2	949.5	616.8	569.1	565.7	567.4	602.6	611.8	612.6
52.5°	8546.7	7360.0	3630.5	780.2	652.9	602.6	578.3	558.2	573.2	595.0	570.7
55°	8886.1	7593.8	3269.3	734.2	670.5	631.1	604.3	569.1	554.0	548.9	557.3
57.5°	9165.2	7788.2	2845.3	713.2	675.5	633.6	648.7	568.2	551.5	512.9	508.7
60°	9437.6	7972.6	2427.9	683.9	671.3	628.6	605.1	582.5	542.2	484.4	463.5
62.5°	9606.9	8029.6	1991.3	658.7	652.9	622.7	590.0	579.1	533.0	488.6	482.7
63°	9582.6	7989.4	1915.0	654.5	648.7	618.5	590.8	574.9	528.8	493.6	491.1
65°	9641.2	7758.9	1578.1	628.6	631.1	606.8	578.3	549.8	491.1	466.0	461.8
67.5°	9363.0	7338.2	1138.9	580.8	604.3	588.3	553.1	501.2	446.7	414.0	412.3
70°	8633.0	6541.2	782.8	495.3	561.5	562.3	540.6	473.5	414.0	377.1	382.2
72.5°	7601.3	5715.7	504.5	385.5	482.7	517.1	504.5	447.5	369.6	302.5	297.5
75°	6494.2	4661.4	372.1	310.9	356.2	460.1	440.8	364.6	310.1	267.3	264.0
77.5°	4874.2	3370.7	329.4	265.7	264.8	311.8	362.9	358.7	367.9	442.5	432.4
80°	3374.1	2378.5	262.3	215.4	161.7	196.9	305.9	379.6	473.5	274.9	258.1
82.5°	1952.7	1291.5	85.5	67.9	98.9	127.4	224.6	471.8	313.4	164.3	147.5
85°	919.4	490.3	36.9	21.0	29.3	42.7	126.5	398.9	200.3	82.1	15.1
87.5°	284.9	134.9	8.4	6.7	7.5	9.2	53.6	209.5	137.4	9.2	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)