

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: P287008

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

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-5)
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15793 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

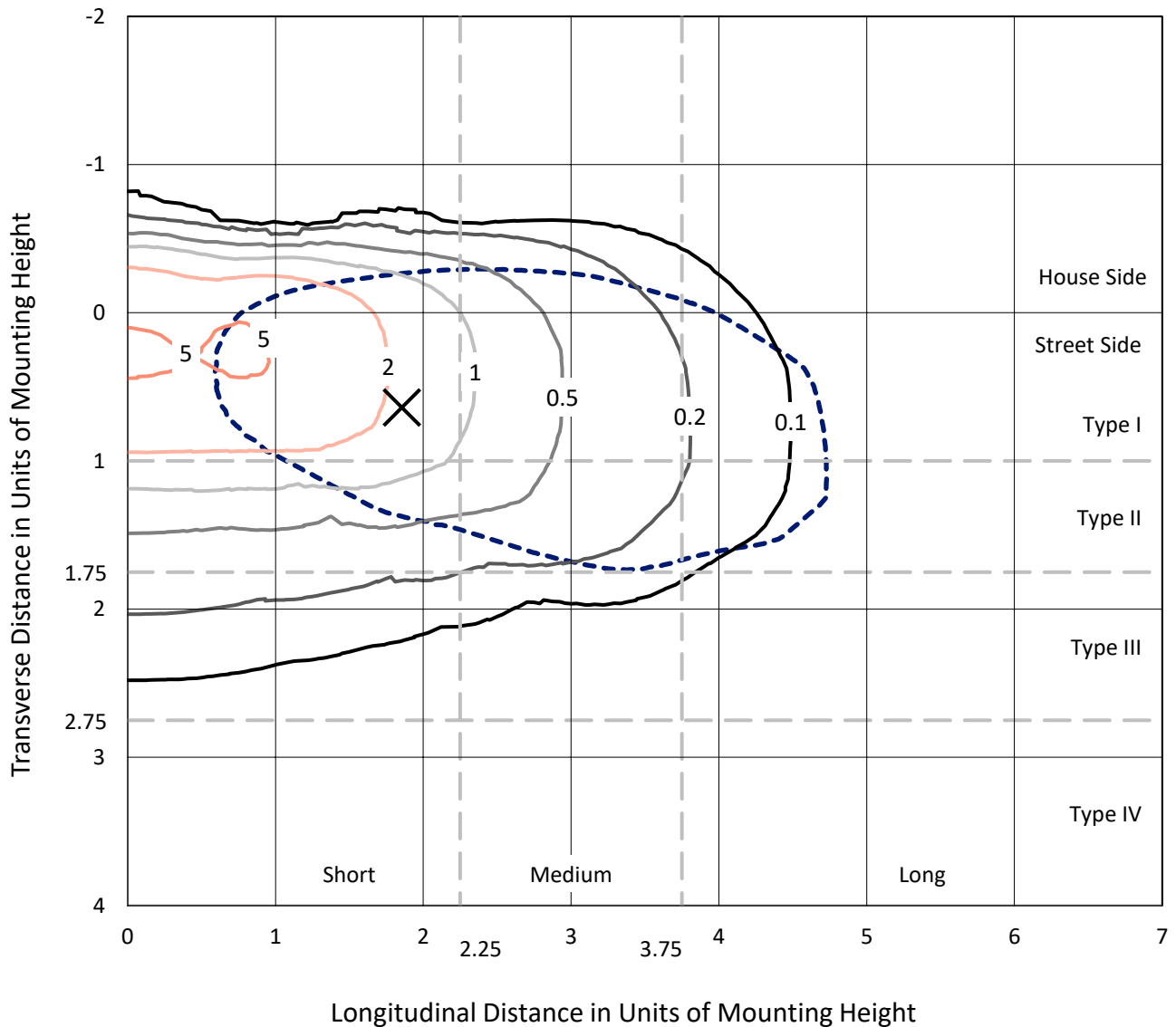
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

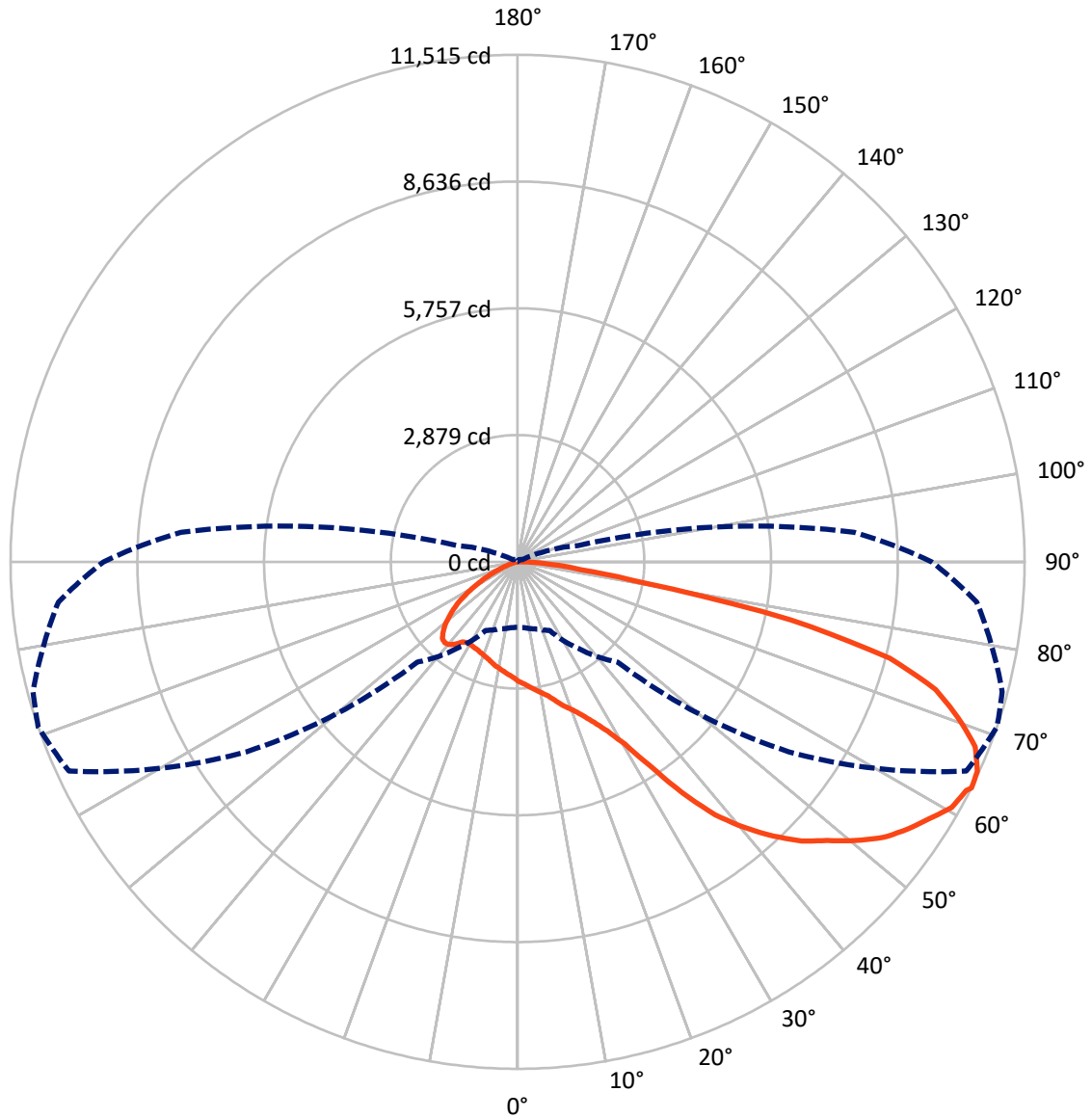
✕ Max cd
 - - - 1/2 Max cd



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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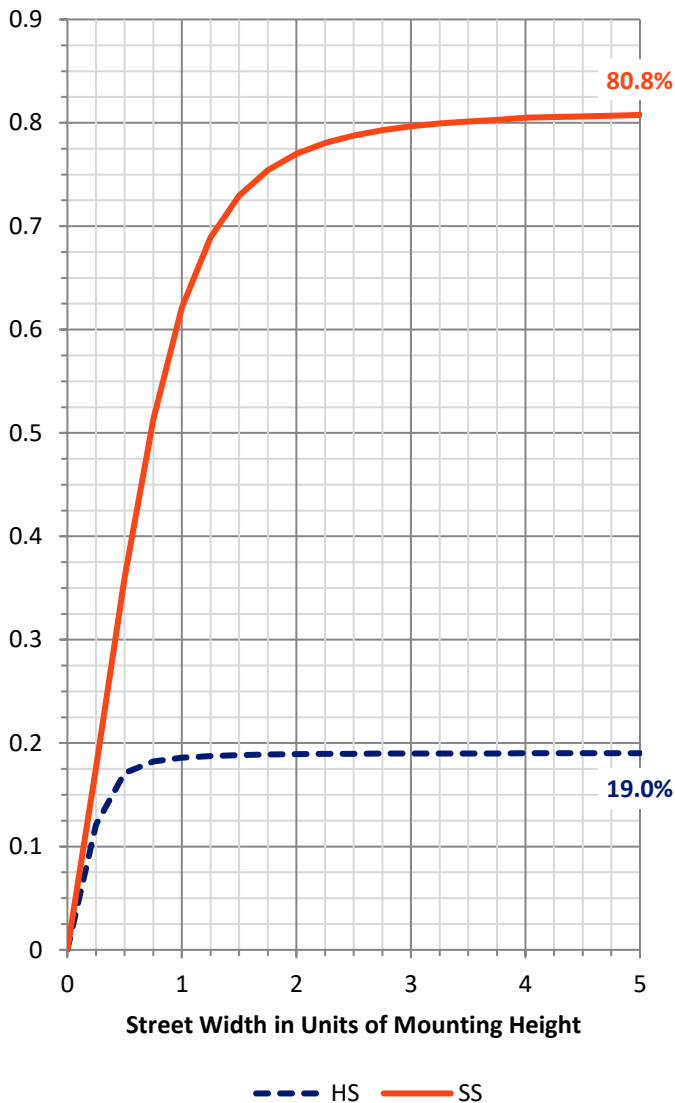
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.6	0.0	3039.6
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	12753.4	0.0	12753.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	15793.0	0.0	15793.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.6
10°-20°	776.4	4.9
20°-30°	1305.7	8.3
30°-40°	1995.5	12.6
40°-50°	2779.8	17.6
50°-60°	3219.5	20.4
60°-70°	3188.4	20.2
70°-80°	1976.5	12.5
80°-90°	292.7	1.9
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°	15793.0	100.0
0°-180°	15793.0	100.0



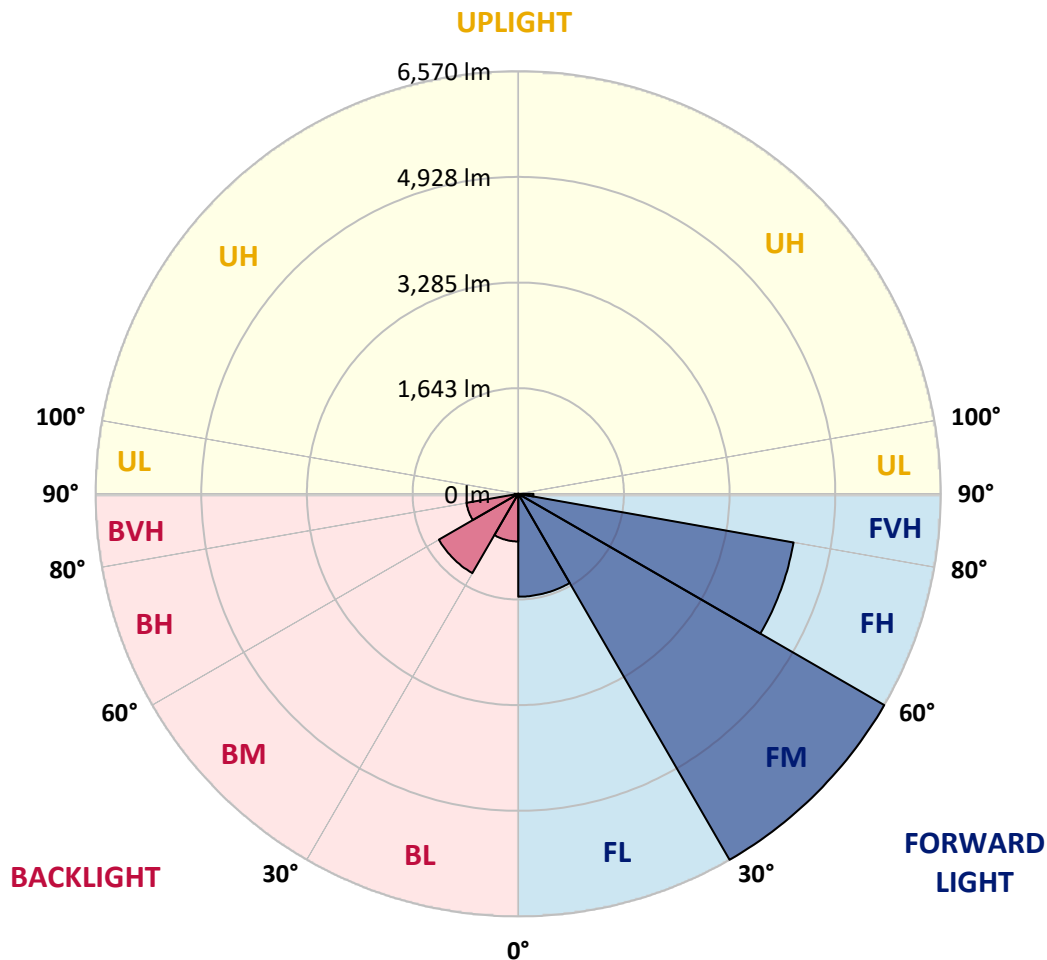
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.3	10.1			
FM (30°-60°)	6570.1	41.6			
FH (60°-80°)	4347.0	27.5			G2/5000
FVH (80°-90°)	237.0	1.5			G3/500
BL (0°-30°)	741.3	4.7	B2/1000		
BM (30°-60°)	1424.8	9.0	B2/2500		
BH (60°-80°)	817.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	55.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4
2.5°	2989.3	2960.8	2960.0	2923.9	2897.1	2882.0	2840.9	2804.9	2773.9	2770.6	2715.2
5°	3151.9	3145.2	3135.9	3079.8	3054.6	3021.1	2975.9	2906.3	2850.2	2835.9	2747.9
7.5°	3335.4	3330.4	3311.9	3261.6	3198.0	3158.6	3070.6	3001.0	2941.5	2911.3	2792.3
10°	3441.0	3440.1	3438.5	3396.6	3347.1	3289.3	3195.4	3093.2	3024.5	2992.6	2820.8
12.5°	3608.6	3586.0	3578.4	3527.3	3464.4	3422.5	3336.2	3226.4	3133.4	3077.3	2885.4
15°	3743.5	3744.4	3730.1	3684.0	3637.1	3570.0	3497.1	3387.3	3285.1	3242.4	2996.0
17.5°	3911.1	3896.0	3879.3	3830.7	3781.2	3710.8	3665.6	3532.3	3448.5	3354.7	3093.2
20°	4017.6	3991.6	3973.1	3942.1	3922.0	3865.9	3824.8	3706.6	3591.8	3511.4	3202.1
22.5°	4091.3	4118.1	4110.6	4060.3	4067.8	4051.1	3999.1	3919.5	3790.4	3658.0	3327.8
25°	4136.6	4130.7	4174.3	4207.0	4263.9	4260.6	4222.0	4152.5	4037.7	3895.2	3515.6
27.5°	4150.0	4150.0	4220.4	4312.5	4446.6	4476.0	4481.0	4476.8	4349.4	4220.4	3762.0
30°	4170.1	4192.7	4260.6	4375.4	4569.8	4686.3	4741.6	4834.6	4802.8	4690.5	4164.2
32.5°	4090.5	4093.0	4191.9	4413.1	4696.4	4938.6	5047.5	5376.9	5516.8	5568.8	4979.6
35°	3834.0	3860.0	4040.2	4345.2	4755.0	5155.6	5451.4	6131.9	6440.3	6447.0	5759.8
37.5°	3656.4	3681.5	3875.1	4247.2	4801.1	5374.3	5913.2	6980.0	7291.8	7214.7	6432.8
40°	3461.9	3503.8	3709.2	4114.8	4794.4	5588.9	6406.8	7730.9	7938.7	7837.3	6983.4
42.5°	3272.5	3279.2	3481.2	3931.2	4760.1	5763.2	6889.5	8285.7	8515.3	8384.6	7523.1
45°	3042.9	3073.1	3272.5	3687.4	4646.1	5870.5	7314.4	8894.1	9046.6	8900.8	7973.9
47.5°	2778.1	2816.6	3073.1	3461.9	4393.0	5886.4	7696.5	9441.3	9456.4	9340.8	8448.3
50°	2145.4	2169.7	2696.8	3239.9	4090.5	5822.7	8061.1	9851.1	9949.2	9798.3	8853.0
52.5°	1942.6	1962.7	2110.2	2950.7	3685.7	5609.8	8315.9	10322.1	10401.7	10269.3	9248.6
55°	1862.1	1871.3	1923.3	2391.8	3346.3	5231.9	8476.8	10674.1	10731.1	10566.8	9576.3
57.5°	1721.3	1729.7	1840.3	2039.8	3061.4	4606.7	8456.6	11021.0	11016.8	10833.3	9915.7
60°	1614.9	1632.5	1726.4	1875.5	2717.8	3854.1	8180.9	11286.7	11327.8	11159.3	10162.9
62.5°	1514.3	1521.0	1600.7	1744.8	2438.7	3305.2	7662.2	11262.4	11435.9	11311.0	10473.8
63°	1485.8	1498.4	1577.2	1717.1	2398.5	3218.9	7522.2	11243.1	11514.6	11392.3	10466.3
65°	1397.8	1399.5	1476.6	1609.0	2206.6	2949.9	7057.1	10988.4	11473.6	11399.8	10596.2
67.5°	1230.2	1242.8	1311.5	1440.6	1886.4	2608.0	5855.4	10819.1	11207.1	11245.6	10384.1
70°	1044.2	1051.7	1136.4	1262.9	1585.6	2212.4	4379.6	10229.1	10617.1	10664.9	9826.8
72.5°	818.8	823.0	915.1	1062.6	1297.3	1826.9	3022.0	9200.8	9929.1	9929.1	8874.0
75°	257.3	304.2	641.1	856.5	1048.4	1413.8	1985.3	7138.4	8727.3	8944.4	7597.7
77.5°	83.8	90.5	202.8	451.7	660.4	1085.3	1318.2	3794.6	6339.8	6936.4	5992.8
80°	60.3	70.4	125.7	338.6	415.7	461.8	817.1	2068.3	2881.2	3776.2	4002.5
82.5°	31.0	40.2	88.8	215.4	236.3	233.0	362.9	978.0	1438.9	1738.1	2076.7
85°	14.2	17.6	38.5	75.4	65.4	61.2	128.2	512.0	811.2	958.7	1035.8
87.5°	3.4	5.0	14.2	26.8	16.8	13.4	15.1	162.6	295.8	368.7	381.3
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°	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4	2714.4
2.5°	2691.8	2705.2	2641.5	2610.5	2557.7	2540.9	2515.0	2483.9	2473.9	2499.0	2482.3
5°	2715.2	2696.8	2604.6	2520.8	2450.4	2395.1	2353.2	2300.4	2268.6	2276.1	2281.1
7.5°	2724.5	2683.4	2552.7	2449.6	2330.6	2259.4	2183.1	2108.5	2076.7	2081.7	2085.0
10°	2733.7	2671.7	2517.5	2365.8	2224.2	2114.4	2027.2	1928.3	1880.6	1882.2	1898.2
12.5°	2788.2	2667.5	2488.1	2304.6	2121.1	1984.5	1878.0	1768.3	1700.4	1705.4	1718.0
15°	2865.3	2703.5	2450.4	2214.1	2021.3	1866.3	1733.9	1612.4	1560.4	1568.0	1579.7
17.5°	2931.5	2743.7	2421.1	2118.6	1900.7	1733.9	1614.1	1510.1	1415.4	1429.7	1421.3
20°	2998.5	2800.7	2411.9	2038.1	1796.8	1604.8	1469.1	1385.3	1268.0	1236.1	1226.0
22.5°	3105.8	2864.4	2403.5	1964.4	1673.6	1491.7	1322.4	1199.2	1030.8	973.0	950.3
25°	3246.6	2955.8	2390.9	1898.2	1571.3	1356.8	1127.2	905.9	781.1	707.3	672.9
27.5°	3436.8	3086.5	2409.4	1839.5	1468.2	1196.7	855.6	657.9	546.4	482.7	446.7
30°	3755.2	3257.5	2413.5	1786.7	1342.5	954.5	609.3	457.6	362.9	319.3	297.5
32.5°	4455.0	3776.2	2451.3	1726.4	1207.6	702.3	424.0	306.7	231.3	203.6	216.2
35°	5190.8	4413.1	2587.0	1640.9	996.4	475.2	279.9	198.6	148.3	152.5	156.7
37.5°	5748.9	4907.6	2872.0	1536.1	749.2	325.2	168.4	135.8	130.7	142.5	164.3
40°	6297.9	5399.5	3125.9	1409.6	507.9	195.3	114.0	124.9	117.3	122.4	124.0
42.5°	6778.9	5791.7	3307.7	1222.7	314.3	114.8	99.7	115.6	107.3	104.8	92.2
45°	7244.0	6131.1	3420.0	964.6	180.2	91.3	91.3	110.6	103.9	98.1	83.8
47.5°	7655.5	6510.7	3392.4	666.2	109.8	82.1	85.5	99.7	97.2	89.7	82.1
50°	8034.3	6785.6	3320.3	378.0	96.4	77.9	83.0	83.0	87.2	67.9	62.0
52.5°	8364.5	7029.5	3088.2	202.0	89.7	74.6	74.6	66.2	70.4	52.0	49.4
55°	8703.9	7285.1	2761.3	158.4	85.5	74.6	66.2	57.8	52.8	37.7	40.2
57.5°	8982.9	7473.6	2338.1	142.5	88.0	71.2	60.3	50.3	41.9	29.3	28.5
60°	9241.0	7629.5	1927.5	126.5	94.7	72.1	50.3	41.9	29.3	23.5	21.0
62.5°	9396.9	7664.7	1495.1	114.8	94.7	66.2	45.3	35.2	22.6	15.9	15.1
63°	9401.9	7675.6	1427.2	114.0	96.4	66.2	45.3	34.4	21.0	15.1	14.2
65°	9475.7	7448.5	1126.3	111.5	98.1	62.9	42.7	27.7	17.6	11.7	10.9
67.5°	9194.1	7011.0	740.8	109.8	98.1	61.2	37.7	23.5	15.1	9.2	7.5
70°	8449.9	6262.7	453.4	105.6	99.7	60.3	46.9	20.1	13.4	6.7	5.9
72.5°	7424.2	5531.9	260.6	93.9	98.1	49.4	26.8	17.6	11.7	5.0	4.2
75°	6284.4	4446.6	164.3	72.9	76.3	41.1	22.6	15.9	10.1	2.5	2.5
77.5°	4775.1	3199.6	140.8	56.1	45.3	36.0	19.3	12.6	6.7	0.8	0.8
80°	3372.3	2261.0	101.4	35.2	25.1	22.6	14.2	8.4	2.5	0.0	0.0
82.5°	1898.2	1235.3	55.3	12.6	7.5	8.4	6.7	3.4	0.0	0.0	0.0
85°	895.0	482.7	27.7	8.4	4.2	3.4	0.8	0.0	0.0	0.0	0.0
87.5°	332.7	116.5	6.7	3.4	2.5	0.8	0.0	0.0	0.0	0.0	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)