

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: P285817

Luminaire Tested: **PRV-XL-C125-D-UNV-T3-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C125-D-UNV-T3-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33604 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

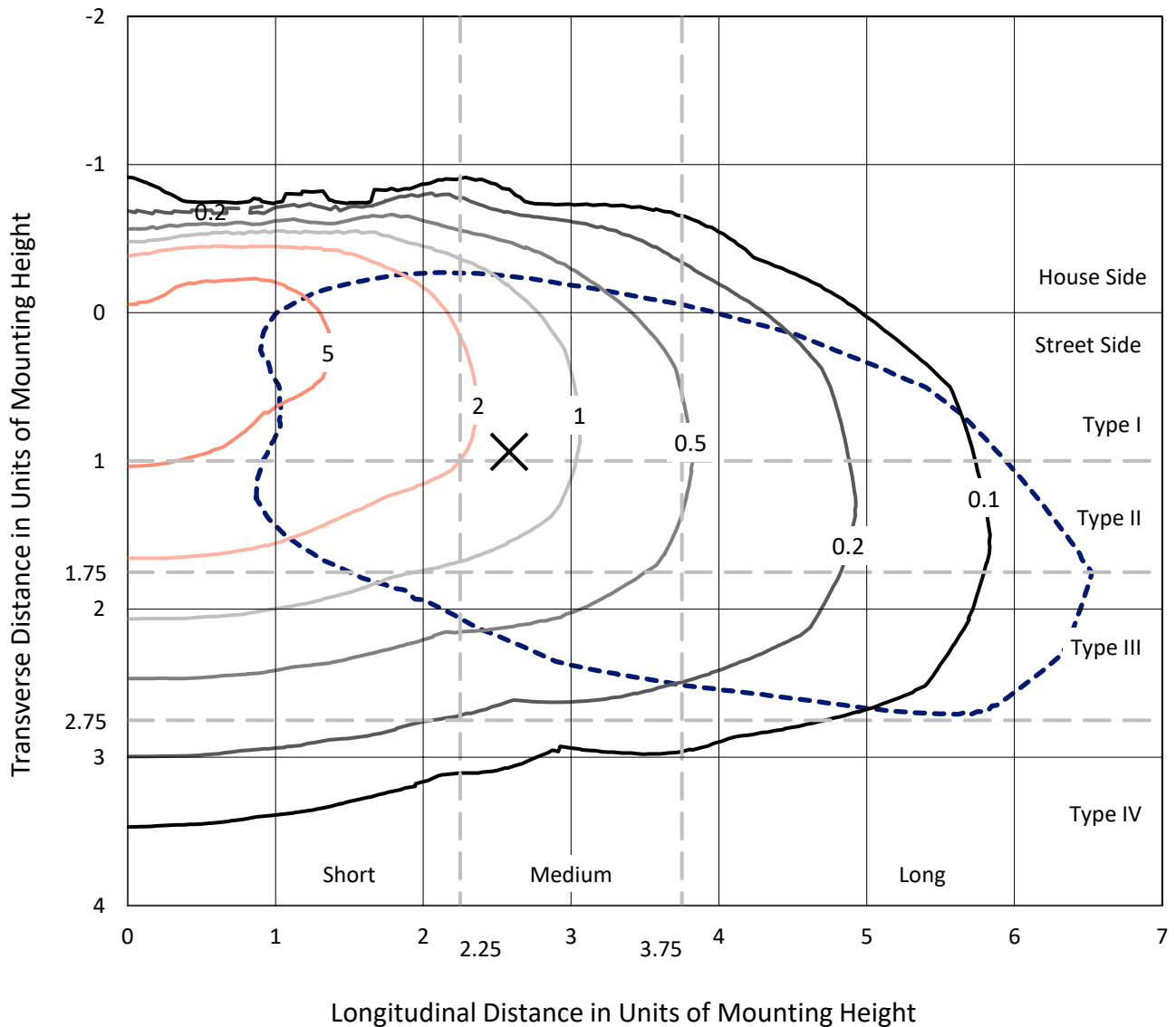
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

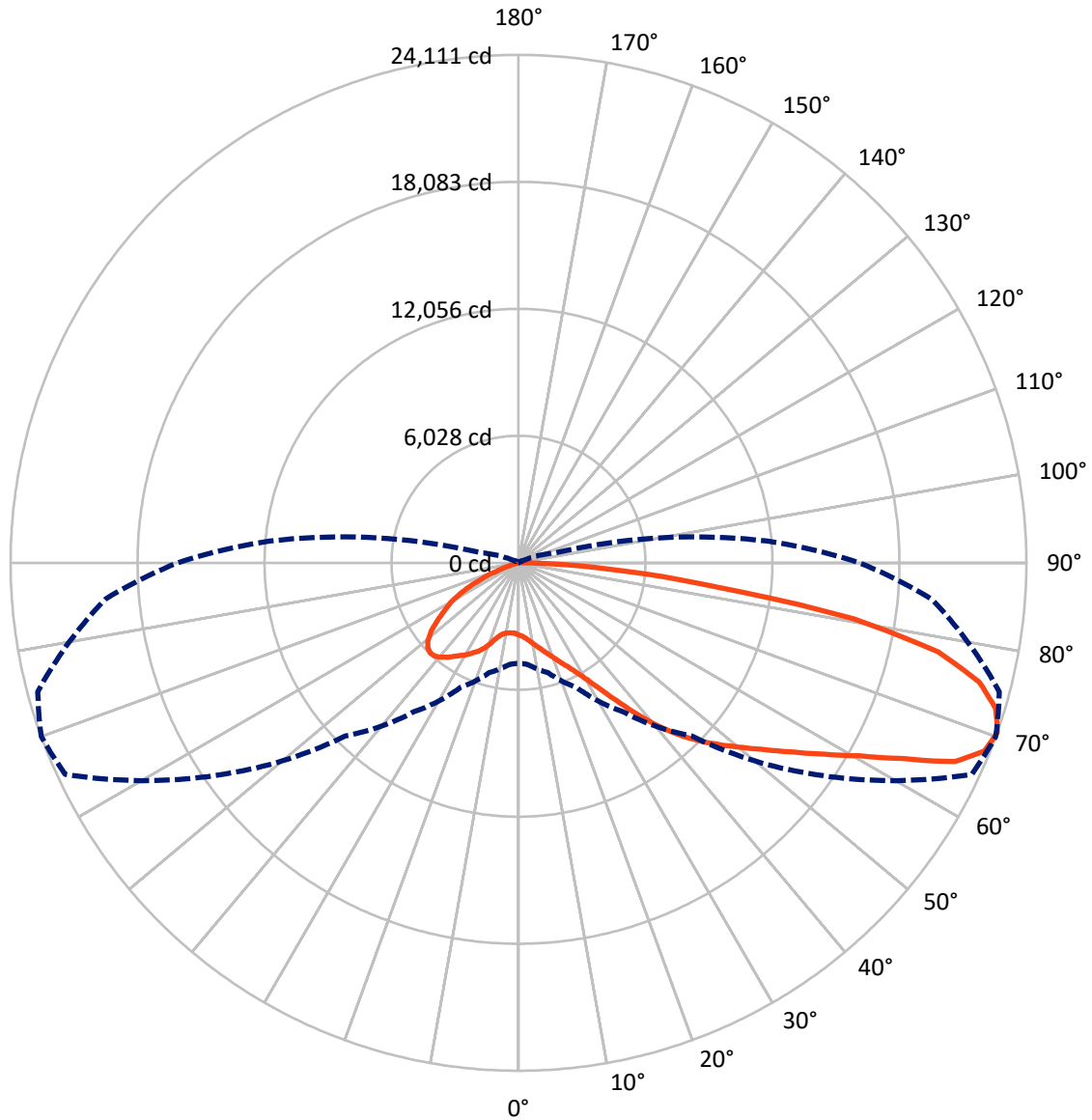
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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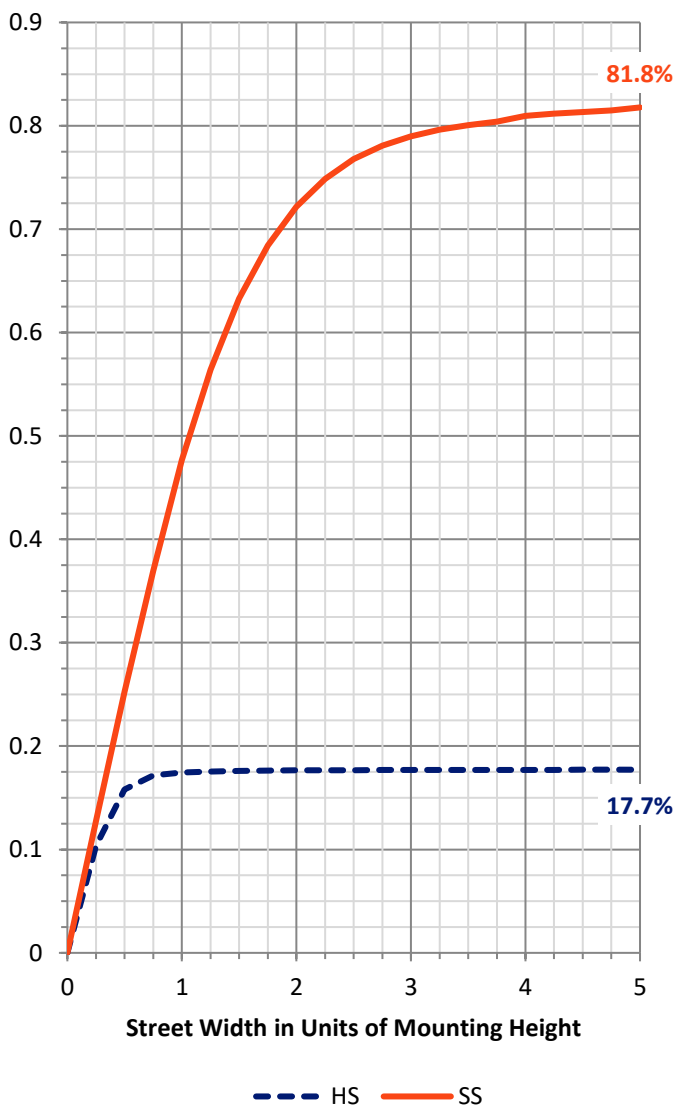
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6021.6	0.0	6021.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	27582.4	0.0	27582.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	33604.0	0.0	33604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.0
10°-20°	1043.4	3.1
20°-30°	1899.9	5.7
30°-40°	3230.0	9.6
40°-50°	5080.7	15.1
50°-60°	6858.4	20.4
60°-70°	8023.6	23.9
70°-80°	5970.4	17.8
80°-90°	1165.5	3.5
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°	33604.0	100.0
0°-180°	33604.0	100.0

Coefficient of Utilization



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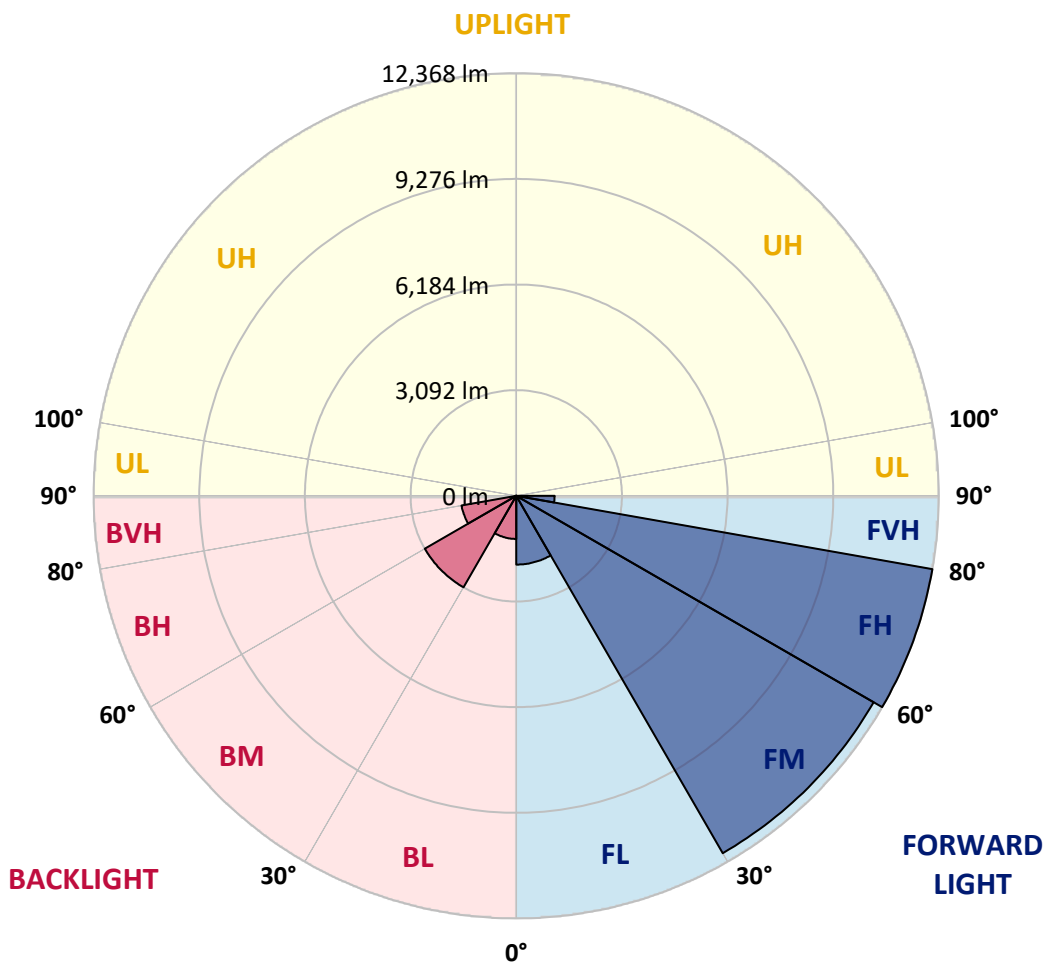
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.0	6.0			
FM (30°-60°)	12078.7	35.9			
FH (60°-80°)	12367.8	36.8			G5
FVH (80°-90°)	1122.8	3.3			G5
BL (0°-30°)	1262.2	3.8	B3/2500		
BM (30°-60°)	3090.5	9.2	B3/5000		
BH (60°-80°)	1626.2	4.8	B3/2500		G3/2500
BVH (80°-90°)	42.7	0.1			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5
2.5°	3627.0	3624.1	3629.8	3615.7	3624.1	3597.3	3573.2	3539.2	3486.9	3468.5	3433.1
5°	3803.9	3806.7	3805.3	3795.4	3782.6	3754.3	3706.2	3659.5	3597.3	3567.5	3498.2
7.5°	3955.3	3956.7	3962.4	3959.5	3952.5	3915.7	3871.8	3812.4	3737.4	3699.1	3604.3
10°	4075.6	4074.2	4082.6	4095.4	4123.7	4095.4	4037.4	3989.2	3908.6	3857.6	3740.2
12.5°	4154.8	4144.9	4169.0	4204.3	4255.3	4259.5	4221.3	4171.8	4101.0	4041.6	3910.0
15°	4191.6	4187.4	4231.2	4304.8	4378.4	4402.5	4396.8	4360.0	4307.7	4248.2	4105.3
17.5°	4277.9	4276.5	4306.2	4392.6	4478.9	4539.7	4602.0	4596.3	4548.2	4505.8	4357.2
20°	4418.0	4420.9	4420.9	4495.9	4590.7	4698.2	4821.3	4859.6	4821.3	4795.9	4652.9
22.5°	4589.3	4576.5	4568.0	4630.3	4746.3	4896.3	5070.4	5141.2	5135.5	5110.0	5023.7
25°	4829.8	4801.5	4740.7	4818.5	4961.4	5136.9	5340.7	5459.6	5469.5	5476.5	5538.8
27.5°	5211.9	5210.5	5107.2	5112.9	5210.5	5414.3	5663.3	5868.5	5896.8	5976.1	6189.8
30°	5981.7	5903.9	5785.0	5595.4	5562.9	5755.3	6052.5	6366.7	6447.3	6689.3	6948.3
32.5°	6702.0	6644.0	6560.5	6341.2	6073.7	6144.5	6482.7	6948.3	7160.6	7643.1	7879.4
35°	7320.5	7290.7	7228.5	7098.3	6856.3	6673.7	6951.1	7595.0	8042.2	8749.7	8956.3
37.5°	7924.7	7902.1	7861.0	7746.4	7595.0	7321.9	7495.9	8357.7	9085.1	9914.4	10020.5
40°	8455.4	8448.3	8483.7	8412.9	8346.4	8176.6	8125.7	9163.0	10174.8	11049.3	11023.9
42.5°	8919.6	8908.2	9080.9	8987.5	9066.7	9001.6	8895.5	9915.8	11162.5	11980.5	11894.2
45°	9229.5	9223.8	9406.4	9499.8	9723.3	9771.5	9707.8	10697.0	12062.6	12833.8	12644.2
47.5°	9465.8	9450.2	9550.7	9910.1	10323.4	10421.0	10544.1	11568.7	12908.8	13588.1	13358.8
50°	9594.6	9600.2	9806.8	10292.2	10903.6	11128.6	11387.5	12604.6	13769.2	14396.1	14016.8
52.5°	9678.1	9738.9	10043.2	10627.6	11462.5	11857.4	12154.5	13723.9	14744.2	15158.9	14754.1
55°	9737.5	9845.0	10149.3	10808.8	11812.1	12465.9	12900.3	14904.1	15853.7	16115.5	15535.3
57.5°	9354.0	9468.6	9980.9	10841.3	12100.8	12979.6	13755.0	16167.8	17151.4	17175.4	16261.2
60°	8727.1	8797.9	9453.1	10641.8	12059.7	13452.2	14803.7	17665.1	18597.6	18584.9	17158.4
62.5°	8079.0	8115.8	8780.9	10115.3	11827.6	13626.3	15802.7	19677.4	20478.3	20100.5	18072.6
65°	7222.8	7263.9	7950.2	9246.5	11182.3	13508.8	16657.5	21787.3	22748.2	22145.3	18957.1
67.5°	6107.7	6185.5	6819.5	8023.8	10132.3	12889.0	17308.4	23233.6	23852.0	23324.1	19576.9
70°	4763.3	4832.7	5398.7	6533.6	8618.1	11625.3	17611.3	23743.0	24111.0	23627.0	19681.6
72.5°	3392.1	3443.0	3693.5	4643.0	6536.5	9714.9	17324.0	23498.2	23689.3	23085.0	18971.2
75°	2582.6	2541.6	2690.2	3049.6	3823.7	6826.6	15576.3	22391.6	22586.9	21920.3	17585.8
77.5°	1869.4	1836.8	2015.1	2293.9	2667.5	3209.5	10948.8	20118.9	20370.8	19826.0	15233.9
80°	1099.6	1146.3	1382.6	1647.2	1944.4	2138.3	5162.4	15030.1	16139.5	15917.4	11105.9
82.5°	209.4	226.4	574.5	873.1	1071.3	1133.5	1954.3	8267.2	9475.7	9717.7	5867.1
85°	137.3	148.6	343.9	351.0	342.5	438.7	789.6	3983.6	5115.7	5173.7	2576.9
87.5°	63.7	70.8	104.7	151.4	192.5	230.7	260.4	1069.8	1580.7	1617.5	509.4
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°	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5	3434.5
2.5°	3414.7	3400.6	3370.8	3345.4	3328.4	3318.5	3261.9	3252.0	3230.7	3215.2	3208.1
5°	3465.6	3438.8	3366.6	3317.1	3253.4	3201.0	3106.2	3058.1	3029.8	3000.1	2993.0
7.5°	3552.0	3508.1	3394.9	3305.7	3196.8	3102.0	2968.9	2892.5	2838.7	2796.3	2792.0
10°	3673.7	3604.3	3441.6	3311.4	3154.3	3024.1	2858.6	2735.4	2660.4	2605.3	2602.4
12.5°	3825.1	3730.3	3529.3	3356.7	3154.3	2974.6	2777.9	2613.7	2503.4	2428.4	2419.9
15°	4014.7	3901.5	3675.1	3462.8	3223.7	2994.4	2722.7	2501.9	2340.6	2220.3	2214.7
17.5°	4251.0	4133.6	3912.8	3673.7	3355.3	3025.5	2681.7	2370.3	2136.8	1993.9	1978.3
20°	4549.6	4494.4	4268.0	3918.5	3491.1	3041.1	2589.7	2187.8	1870.8	1686.8	1662.8
22.5°	4977.0	4945.9	4621.8	4127.9	3569.0	2993.0	2438.3	1896.3	1511.4	1313.2	1294.8
25°	5511.9	5404.4	4938.8	4283.6	3583.1	2886.9	2182.1	1524.1	1093.9	897.2	890.1
27.5°	6069.5	5874.2	5213.3	4392.6	3542.1	2673.2	1822.7	1084.0	682.1	556.1	557.6
30°	6772.8	6402.0	5524.7	4495.9	3447.3	2383.1	1351.4	675.0	428.8	352.4	342.5
32.5°	7583.7	7070.0	5836.0	4536.9	3270.4	1972.7	857.6	414.6	268.9	229.3	225.0
35°	8530.4	7896.4	6236.5	4541.1	2978.8	1466.1	513.7	243.4	182.6	184.0	186.8
37.5°	9518.2	8772.4	6724.7	4490.2	2615.2	917.0	290.1	157.1	157.1	186.8	196.7
40°	10412.5	9610.1	7242.6	4375.6	2102.9	533.5	164.2	135.9	144.3	175.5	184.0
42.5°	11233.3	10334.7	7716.7	4197.3	1501.5	288.7	141.5	123.1	130.2	144.3	148.6
45°	11943.7	10964.4	8057.7	3910.0	911.3	178.3	130.2	111.8	110.4	120.3	123.1
47.5°	12556.4	11527.6	8288.4	3499.6	476.9	169.8	125.9	101.9	94.8	99.1	100.5
50°	13184.8	11945.1	8374.7	2923.7	244.8	159.9	117.5	94.8	87.7	100.5	101.9
52.5°	13820.1	12572.0	8386.1	2118.4	193.9	144.3	107.5	87.7	84.9	111.8	116.0
55°	14438.6	13029.1	8223.3	1226.9	188.2	134.4	97.6	79.2	82.1	84.9	84.9
57.5°	15090.9	13576.7	7880.9	536.3	182.6	123.1	90.6	72.2	60.9	67.9	70.8
60°	15790.0	14049.4	7191.7	309.9	174.1	110.4	77.8	59.4	50.9	50.9	55.2
62.5°	16496.2	14396.1	6063.8	226.4	165.6	103.3	67.9	52.4	42.5	42.5	45.3
65°	16954.7	14165.4	4677.0	200.9	159.9	93.4	59.4	45.3	34.0	32.5	35.4
67.5°	16871.2	13282.4	3294.4	179.7	145.8	84.9	52.4	39.6	29.7	24.1	25.5
70°	16179.2	11839.0	1826.9	168.4	130.2	77.8	46.7	35.4	24.1	15.6	15.6
72.5°	14904.1	9948.4	701.9	151.4	116.0	67.9	42.5	34.0	21.2	8.5	7.1
75°	13000.8	7570.9	253.3	127.4	96.2	62.3	41.0	35.4	19.8	2.8	0.0
77.5°	10193.2	4236.9	150.0	94.8	72.2	53.8	43.9	35.4	11.3	0.0	0.0
80°	5475.1	1529.8	106.1	60.9	48.1	39.6	39.6	28.3	5.7	0.0	0.0
82.5°	2272.7	343.9	67.9	34.0	32.5	25.5	25.5	12.7	1.4	0.0	0.0
85°	643.9	100.5	31.1	18.4	18.4	14.2	7.1	0.0	0.0	0.0	0.0
87.5°	55.2	21.2	8.5	9.9	7.1	2.8	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)