

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: P622487

Luminaire Tested: **PRV-M-C250-D-U-T2-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C250-D-U-T2-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 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: 63583 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

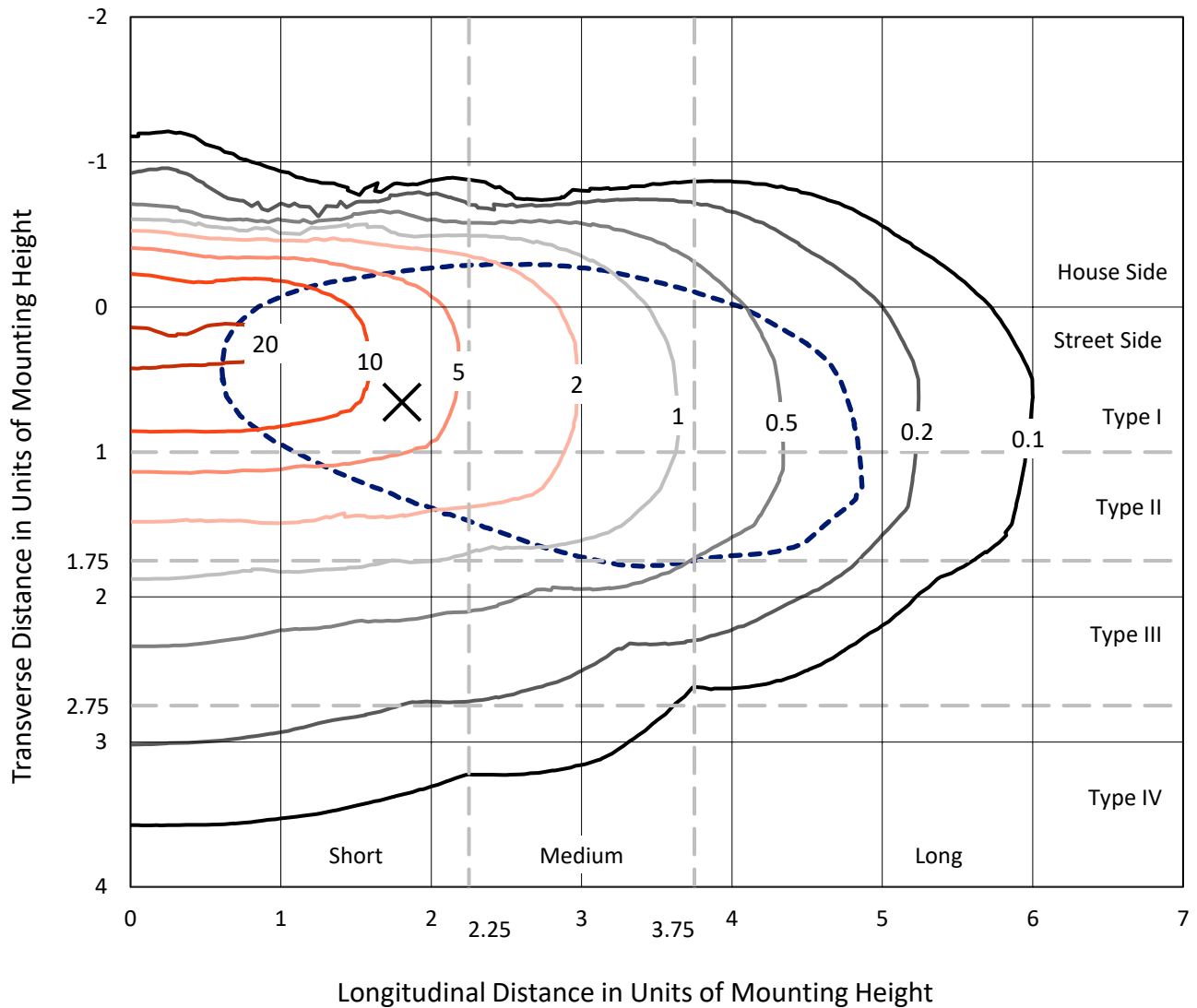
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

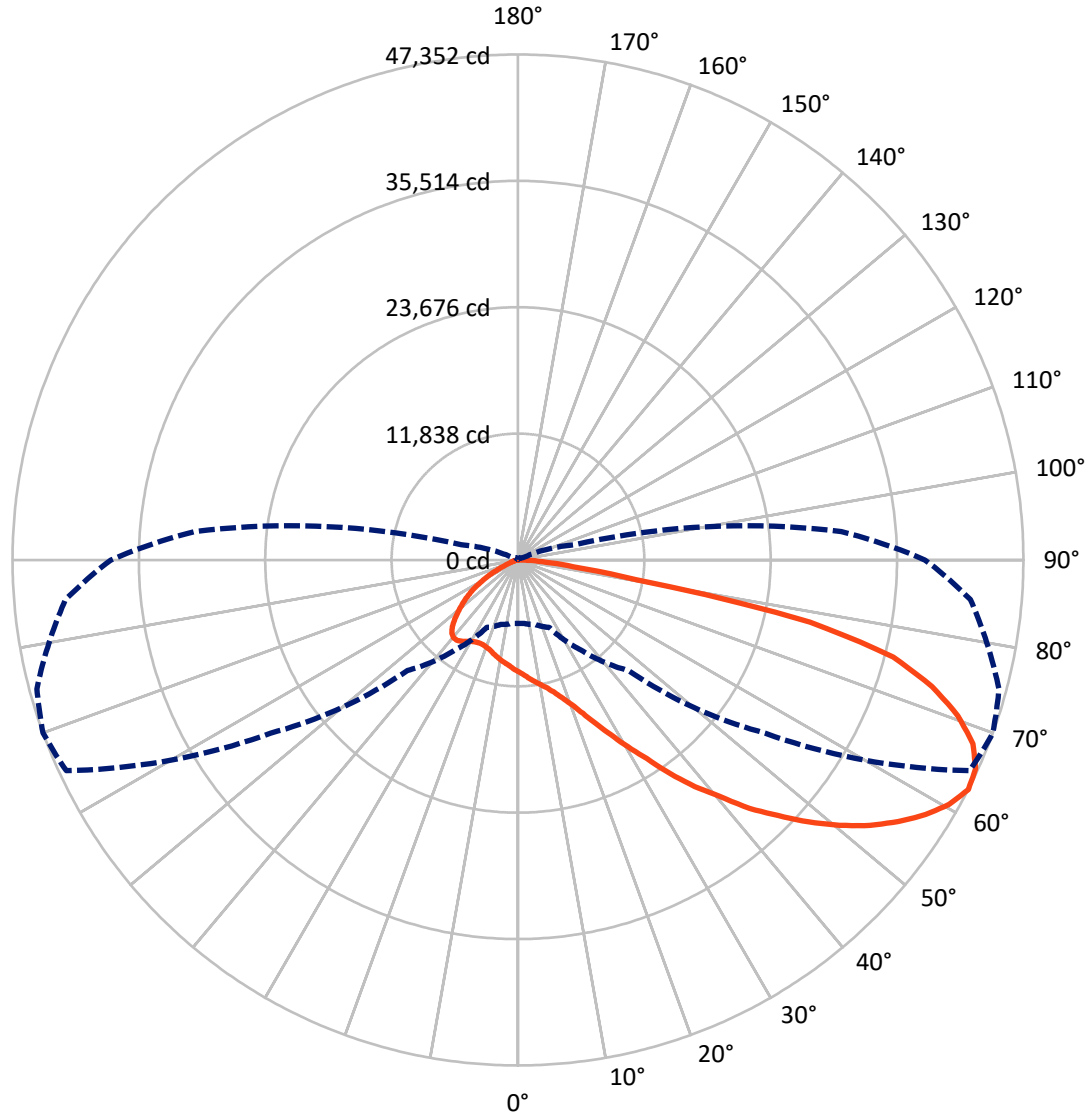
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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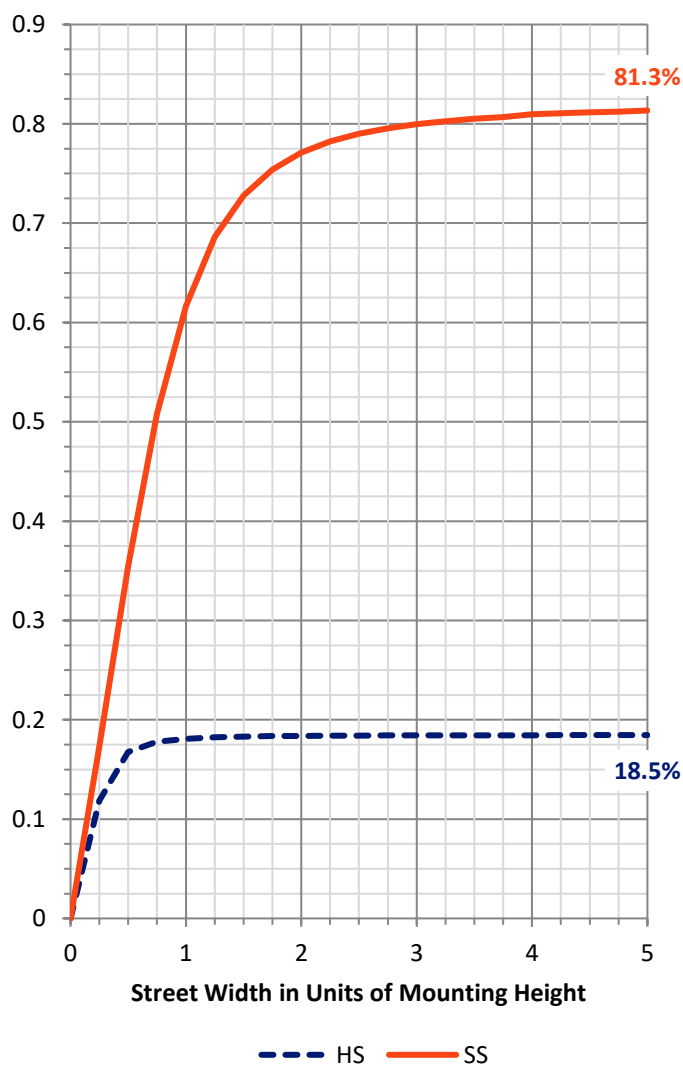
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11874.8	0.0	11874.8
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	51708.2	0.0	51708.2
	% Fixture	81.3	0.0	81.3
Total	Lumens	63583.0	0.0	63583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1006.4	1.6
10°-20°	3050.1	4.8
20°-30°	5272.9	8.3
30°-40°	7978.7	12.5
40°-50°	10865.1	17.1
50°-60°	12828.9	20.2
60°-70°	12973.5	20.4
70°-80°	8525.5	13.4
80°-90°	1081.9	1.7
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°	63583.0	100.0
0°-180°	63583.0	100.0

Coefficient of Utilization



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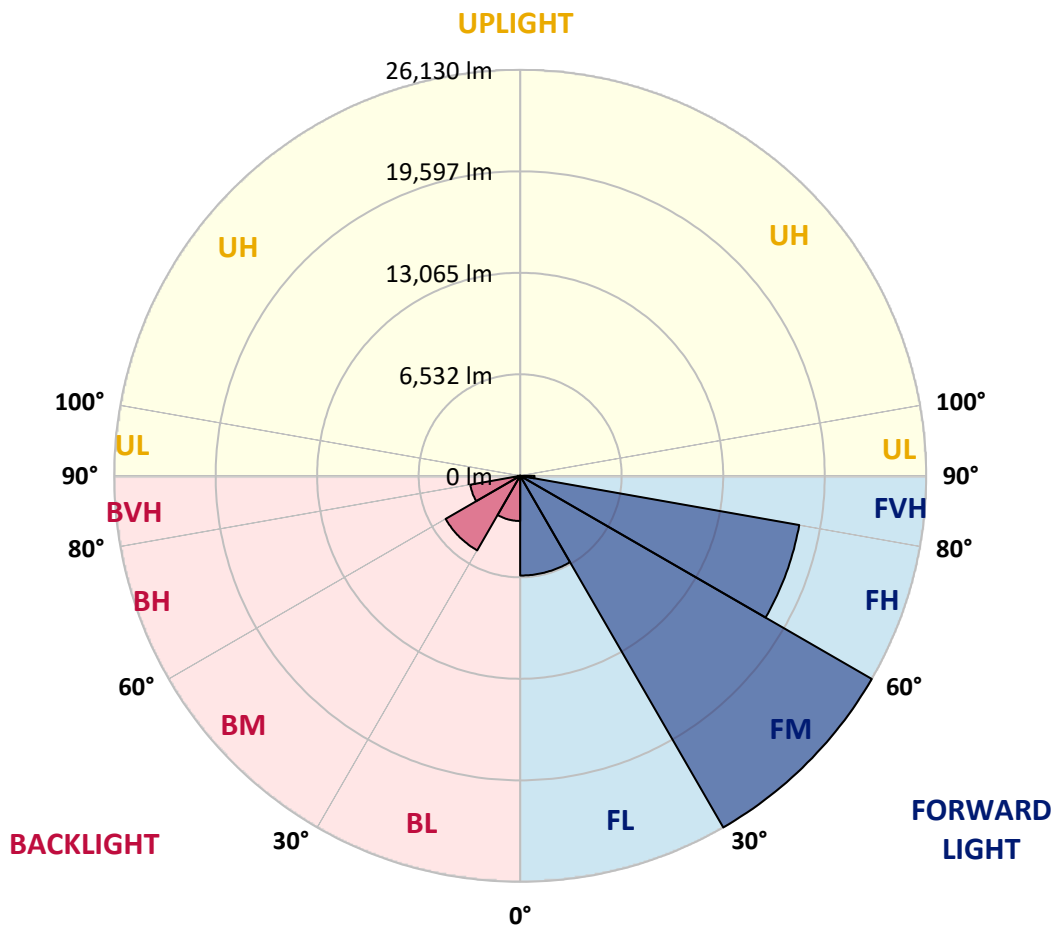
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6418.3	10.1			
FM (30°-60°)	26129.5	41.1			
FH (60°-80°)	18236.8	28.7			G5
FVH (80°-90°)	923.6	1.5			G5
BL (0°-30°)	2911.1	4.6	B4/5000		
BM (30°-60°)	5543.2	8.7	B4/8500		
BH (60°-80°)	3262.3	5.1	B4/5000		G4/5000
BVH (80°-90°)	158.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7
2.5°	11249.4	11245.4	11273.9	11250.8	11161.1	11025.1	10976.2	10864.7	10779.1	10716.5	10606.4
5°	12074.6	12076.0	12081.4	11980.8	11839.4	11662.7	11488.7	11286.1	11143.4	10991.1	10731.5
7.5°	12807.4	12821.0	12827.8	12736.7	12542.3	12282.6	12009.4	11726.6	11510.5	11320.1	10898.7
10°	13430.0	13464.0	13450.4	13391.9	13173.1	12933.8	12581.7	12169.8	11884.3	11628.7	11060.5
12.5°	14062.1	14077.1	14041.8	13912.6	13763.1	13508.8	13144.5	12680.9	12323.4	12020.3	11276.6
15°	14705.2	14706.5	14648.1	14516.2	14302.8	14100.2	13784.8	13288.6	12894.4	12520.5	11593.4
17.5°	15225.8	15274.8	15193.2	15098.0	14941.7	14703.8	14495.8	14025.4	13614.9	13186.7	12051.5
20°	15700.3	15741.1	15746.5	15655.4	15597.0	15417.5	15254.4	14894.1	14465.9	13994.2	12663.3
22.5°	16085.0	16133.9	16195.1	16271.2	16362.3	16265.8	16235.9	15974.9	15606.5	15084.4	13526.5
25°	16354.2	16400.4	16642.4	16906.1	17103.2	17240.5	17387.4	17320.7	16994.5	16409.9	14657.6
27.5°	16471.1	16537.7	16883.0	17387.4	17905.3	18242.5	18678.8	18829.7	18530.7	18073.9	16026.5
30°	16509.2	16588.0	17004.0	17676.9	18600.0	19328.7	19955.4	20444.8	20302.0	19830.3	17676.9
32.5°	16361.0	16415.4	16884.4	17827.8	19131.5	20421.6	21250.9	22186.2	22171.3	21947.0	19570.6
35°	15862.1	15951.8	16548.6	17806.1	19584.2	21407.2	22537.0	24088.1	24587.0	24358.6	21885.8
37.5°	15213.6	15300.6	16023.8	17541.0	19854.8	22248.7	23967.1	26279.5	26930.7	26603.1	23927.7
40°	14449.6	14562.4	15365.9	17059.7	19928.2	22916.2	25247.7	28404.3	29093.6	28910.0	25984.5
42.5°	13533.3	13666.5	14577.4	16473.8	19784.1	23434.2	26569.1	30949.2	31805.7	31565.1	28012.8
45°	12641.5	12685.0	13532.0	15495.0	19403.4	23843.4	27708.3	33002.0	34153.4	33887.0	30153.9
47.5°	11723.9	11831.3	12637.4	14419.7	18526.6	23979.3	28783.6	35393.3	36661.6	36340.8	32469.1
50°	9709.2	9835.6	11545.8	13393.3	17354.7	23702.0	29901.1	37777.7	39069.2	38476.5	34486.5
52.5°	7884.8	7966.4	9140.9	12396.8	15931.4	22980.1	30893.5	40162.2	41316.4	40670.6	36365.3
55°	7244.5	7313.8	7812.8	10760.0	14623.6	21623.4	31437.3	42592.9	43246.8	42485.5	38178.8
57.5°	6839.4	6907.4	7198.3	8712.7	13256.0	19453.7	31563.7	44377.9	45015.4	44099.2	39727.2
60°	6301.0	6375.8	6808.1	7636.0	11782.3	16857.2	30760.3	46007.8	46441.5	45536.1	41245.7
62.5°	5929.9	5961.2	6257.5	6976.7	10282.9	14635.8	28290.1	46694.4	47352.3	46656.3	42549.4
65°	5485.4	5564.2	5813.0	6466.9	9135.5	13200.3	25667.8	45923.6	47121.2	46935.0	43263.1
67.5°	5000.1	5049.0	5300.5	5834.8	7943.3	12073.3	23001.9	44440.4	45958.9	46124.8	42807.7
70°	4469.9	4469.9	4692.8	5140.1	6553.9	10644.5	18929.0	42205.5	43737.6	43884.4	40507.5
72.5°	3783.3	3795.6	4048.4	4437.2	5437.8	8992.8	14726.9	38468.3	40572.8	41089.4	36740.5
75°	2981.3	3032.9	3319.8	3765.7	4435.9	7217.3	10649.9	30670.5	36304.1	37350.9	31987.8
77.5°	645.7	851.0	2009.3	2607.4	3435.3	5634.9	6562.1	18039.9	27968.0	30285.8	25228.7
80°	286.8	326.3	997.8	1673.5	1995.7	3629.7	3527.8	8120.0	11174.7	17048.9	16490.1
82.5°	141.4	193.0	424.1	1050.9	1195.0	1277.9	1354.0	3858.1	5220.3	6307.8	7054.2
85°	39.4	65.3	218.9	420.1	500.3	310.0	503.0	1813.5	2652.3	3039.7	2929.6
87.5°	0.0	0.0	62.5	130.5	115.6	43.5	134.6	577.8	868.7	1034.5	893.2
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°	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7	10482.7
2.5°	10545.2	10446.0	10323.7	10142.9	10004.2	9887.3	9815.2	9682.0	9648.0	9639.9	9603.2
5°	10587.4	10403.9	10104.8	9789.4	9533.8	9287.8	9128.7	8998.2	8890.8	8913.9	8818.7
7.5°	10681.2	10420.2	9958.0	9502.6	9082.5	8764.4	8511.5	8275.0	8170.3	8170.3	8105.0
10°	10761.4	10422.9	9828.8	9230.7	8680.1	8228.7	7903.8	7685.0	7515.0	7462.0	7440.3
12.5°	10874.2	10436.5	9668.4	8943.8	8310.3	7699.9	7320.6	7051.5	6914.2	6863.9	6740.1
15°	11076.8	10528.9	9522.9	8623.0	7868.5	7205.1	6727.9	6462.8	6305.1	6249.4	6226.3
17.5°	11407.1	10713.8	9422.3	8270.9	7433.5	6717.0	6201.8	5883.7	5720.6	5590.1	5575.1
20°	11850.3	11010.2	9391.1	7992.2	6969.9	6233.1	5618.6	5235.2	4928.0	4740.4	4743.1
22.5°	12513.7	11443.8	9448.2	7740.7	6570.2	5742.3	5030.0	4448.1	3932.9	3707.2	3656.9
25°	13446.3	12099.1	9599.1	7535.4	6169.2	5236.6	4226.5	3368.7	2872.5	2642.8	2592.5
27.5°	14641.3	13022.2	9879.1	7361.4	5789.9	4528.3	3250.4	2417.1	1967.1	1763.2	1678.9
30°	15932.7	14176.3	10323.7	7218.7	5308.6	3549.5	2313.8	1662.6	1246.6	1114.7	1114.7
32.5°	17791.1	15568.4	10891.9	7055.5	4677.9	2550.3	1541.6	1074.0	789.8	702.8	702.8
35°	19775.9	17198.4	11608.3	6867.9	3782.0	1744.2	959.8	633.5	522.0	523.4	522.0
37.5°	21495.6	18636.7	12298.9	6582.5	2758.3	1116.1	568.2	459.5	444.5	432.3	444.5
40°	23389.3	20143.0	12800.6	6116.2	1810.8	645.7	405.1	413.3	397.0	368.4	358.9
42.5°	25075.0	21505.1	13140.4	5373.9	1140.6	402.4	354.8	371.1	368.4	329.0	304.5
45°	26865.4	22966.5	13294.1	4253.7	626.7	364.3	312.7	346.7	345.3	300.4	276.0
47.5°	28625.9	24317.8	13228.8	2895.6	422.8	333.1	288.2	308.6	318.1	274.6	248.8
50°	30907.1	25540.0	12863.1	1665.3	386.1	311.3	267.8	261.0	281.4	236.5	221.6
52.5°	32686.6	26773.0	12120.9	893.2	365.7	296.4	247.4	218.9	236.5	194.4	205.3
55°	34288.0	27823.8	10822.6	615.8	361.6	281.4	237.9	193.0	197.1	168.6	165.9
57.5°	35881.3	28821.7	9176.3	542.4	367.1	282.8	216.2	168.6	153.6	137.3	114.2
60°	37160.5	29849.4	7336.9	497.6	369.8	280.0	189.0	146.8	111.5	93.8	89.7
62.5°	38142.1	30409.5	5505.8	463.6	360.3	256.9	171.3	122.4	89.7	68.0	65.3
65°	38607.0	30345.6	3709.9	428.2	356.2	246.1	157.7	103.3	70.7	53.0	50.3
67.5°	37856.6	28840.7	2355.9	392.9	349.4	235.2	148.2	89.7	61.2	43.5	40.8
70°	35338.9	26321.7	1400.2	352.1	331.7	216.2	142.7	80.2	53.0	34.0	28.5
72.5°	31301.3	22768.1	883.6	295.0	300.4	182.2	106.0	68.0	44.9	20.4	17.7
75°	26279.5	18287.3	638.9	218.9	244.7	144.1	84.3	58.5	36.7	12.2	10.9
77.5°	20408.1	12313.9	489.4	144.1	163.1	102.0	59.8	44.9	27.2	6.8	5.4
80°	12445.8	7103.1	384.7	81.6	100.6	59.8	27.2	28.5	12.2	1.4	0.0
82.5°	6004.7	3250.4	222.9	43.5	34.0	31.3	6.8	0.0	1.4	0.0	0.0
85°	2100.3	978.8	42.1	25.8	10.9	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	562.8	174.0	12.2	10.9	1.4	0.0	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)