

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: P622529

Luminaire Tested: **PRV-M-C275-D-U-T2-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622529
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-C275-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: 73685 lumens
Efficiency: N/A
Efficacy: 125.4 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

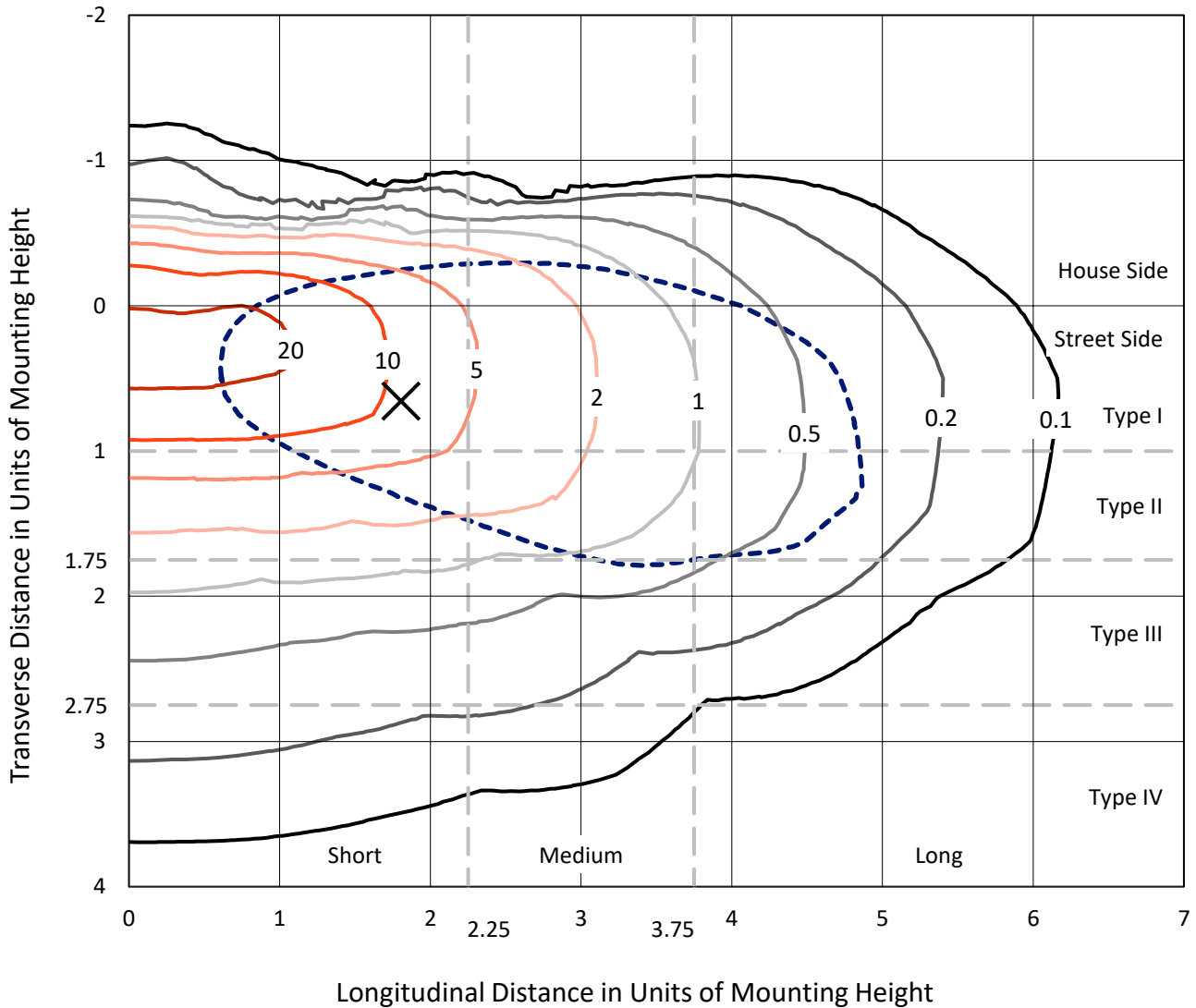
Input Watts (W): 587.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

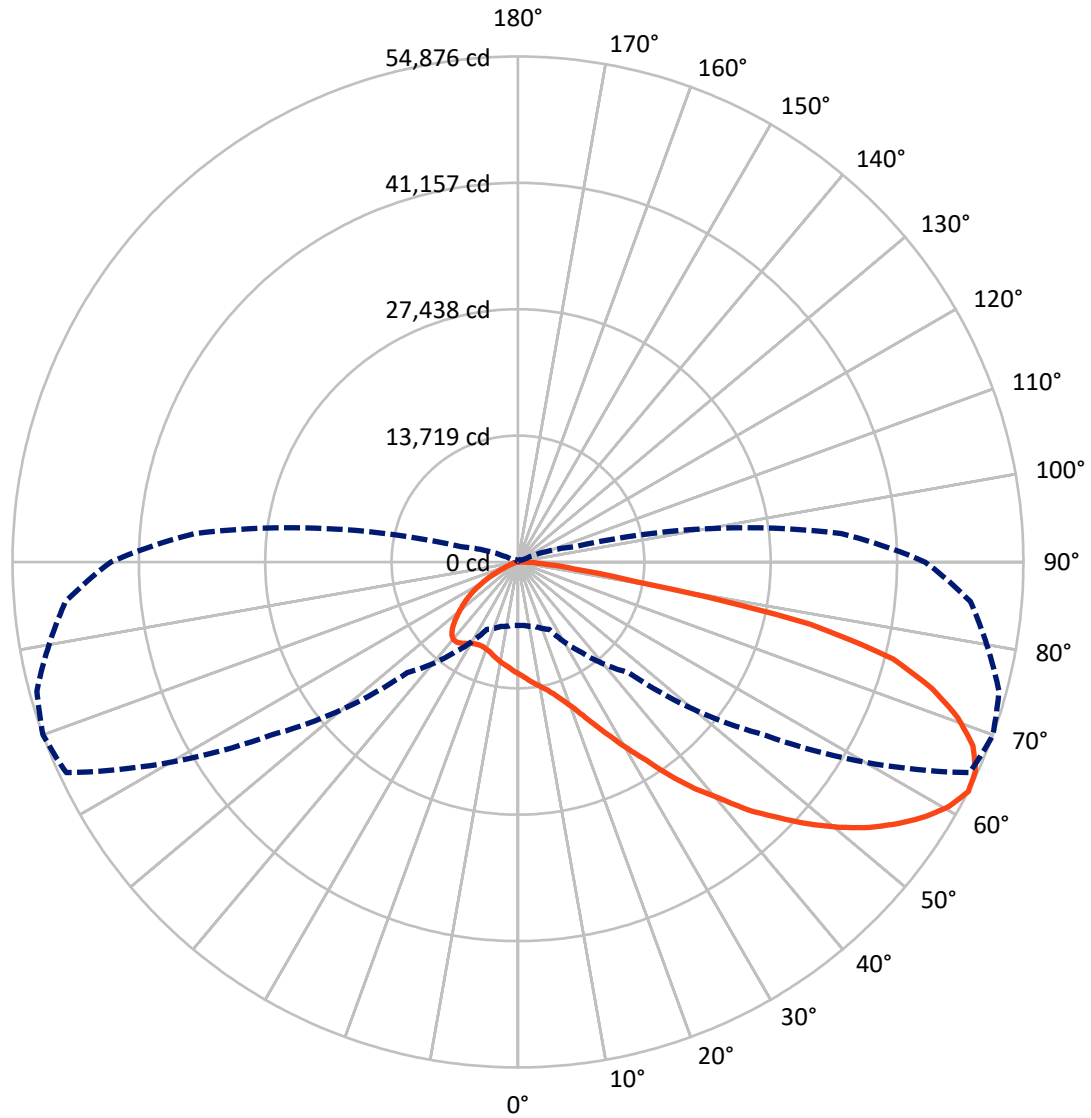
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 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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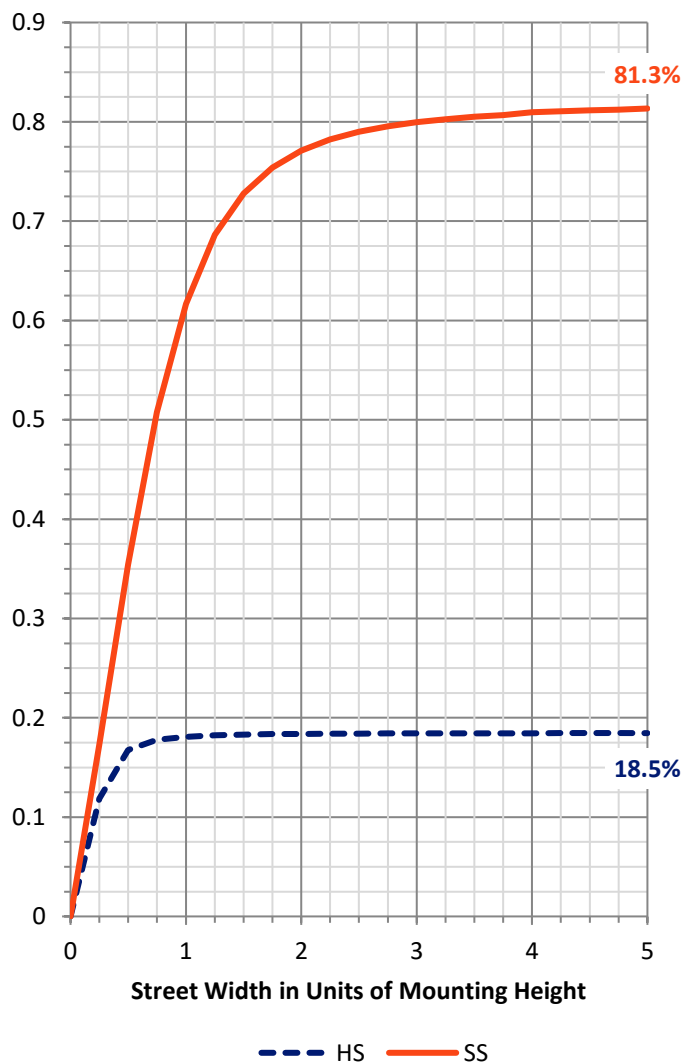
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13761.5	0.0	13761.5
	% Fixture	18.7	0.0	18.7
Street Side	Lumens	59923.5	0.0	59923.5
	% Fixture	81.3	0.0	81.3
Total	Lumens	73685.0	0.0	73685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.2	1.6
10°-20°	3534.7	4.8
20°-30°	6110.6	8.3
30°-40°	9246.4	12.5
40°-50°	12591.3	17.1
50°-60°	14867.1	20.2
60°-70°	15034.8	20.4
70°-80°	9880.0	13.4
80°-90°	1253.8	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°	73685.0	100.0
0°-180°	73685.0	100.0

Coefficient of Utilization



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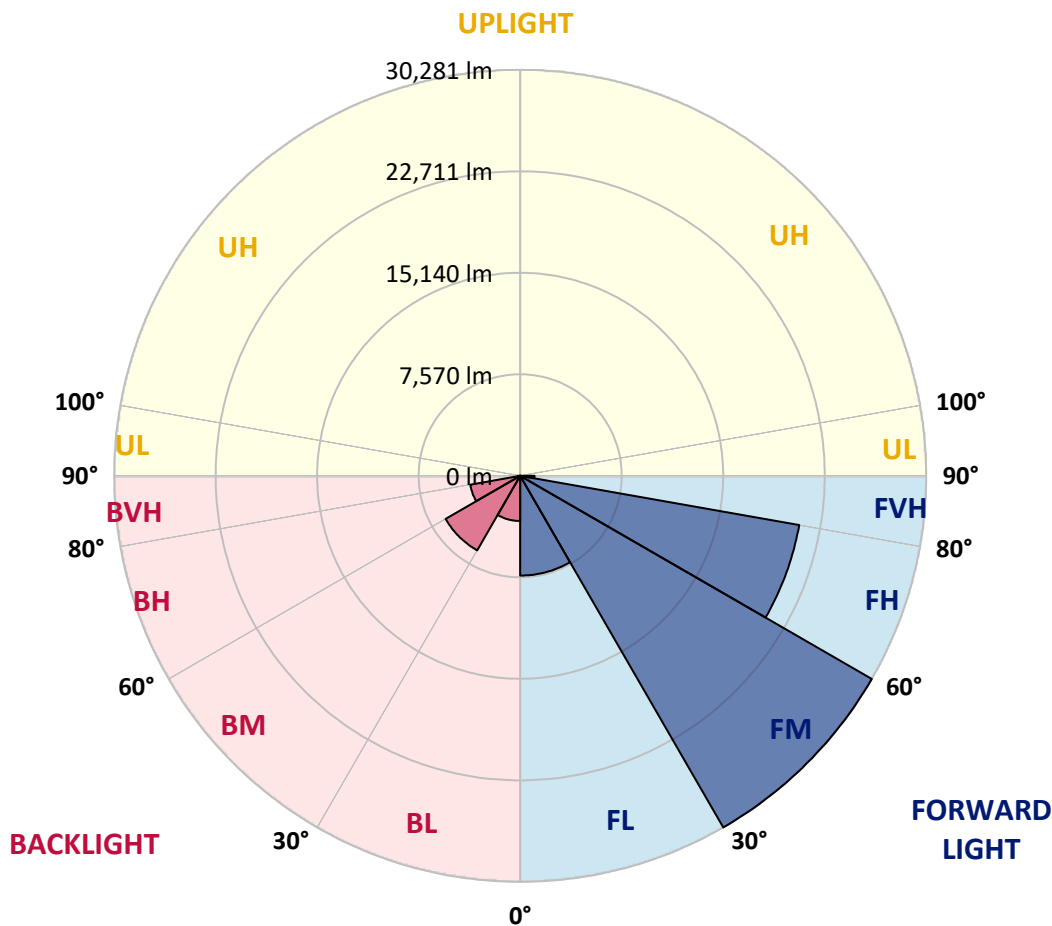
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7438.0	10.1			
FM (30°-60°)	30280.9	41.1			
FH (60°-80°)	21134.2	28.7			G5
FVH (80°-90°)	1070.4	1.5			G5
BL (0°-30°)	3373.6	4.6	B4/5000		
BM (30°-60°)	6423.9	8.7	B4/8500		
BH (60°-80°)	3780.6	5.1	B4/5000		G4/5000
BVH (80°-90°)	183.4	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°	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2
2.5°	13036.7	13032.0	13065.1	13038.3	12934.3	12776.8	12720.1	12590.9	12491.6	12419.2	12291.6
5°	13993.0	13994.6	14000.9	13884.3	13720.5	13515.7	13314.0	13079.3	12913.9	12737.4	12436.5
7.5°	14842.2	14857.9	14865.8	14760.3	14535.0	14234.1	13917.4	13589.7	13339.2	13118.7	12630.3
10°	15563.7	15603.1	15587.4	15519.6	15266.0	14988.7	14580.7	14103.3	13772.5	13476.3	12817.8
12.5°	16296.3	16313.7	16272.7	16123.0	15949.7	15655.1	15232.9	14695.7	14281.3	13930.0	13068.3
15°	17041.5	17043.1	16975.3	16822.5	16575.2	16340.4	15974.9	15399.9	14943.0	14509.8	13435.3
17.5°	17644.9	17701.6	17607.1	17496.8	17315.6	17039.9	16798.9	16253.8	15778.0	15281.7	13966.3
20°	18194.7	18242.0	18248.3	18142.7	18075.0	17867.0	17678.0	17260.5	16764.2	16217.6	14675.2
22.5°	18640.6	18697.3	18768.2	18856.4	18962.0	18850.1	18815.4	18513.0	18086.0	17481.1	15675.6
25°	18952.5	19006.1	19286.5	19592.1	19820.6	19979.7	20149.8	20072.6	19694.5	19017.1	16986.4
27.5°	19088.0	19165.2	19565.4	20149.8	20750.1	21140.8	21646.5	21821.4	21474.8	20945.4	18572.8
30°	19132.1	19223.5	19705.6	20485.4	21555.1	22399.6	23125.8	23693.0	23527.6	22980.9	20485.4
32.5°	18960.4	19023.4	19566.9	20660.3	22171.1	23666.2	24627.2	25711.1	25693.8	25433.9	22680.0
35°	18382.2	18486.2	19177.8	20635.1	22695.7	24808.4	26117.6	27915.2	28493.4	28228.7	25363.0
37.5°	17630.7	17731.5	18569.7	20327.9	23009.3	25783.6	27775.0	30454.8	31209.4	30829.7	27729.3
40°	16745.3	16876.1	17807.2	19770.2	23094.3	26557.1	29259.0	32917.2	33715.9	33503.2	30112.9
42.5°	15683.5	15837.9	16893.4	19091.1	22927.3	27157.4	30790.3	35866.4	36858.9	36580.1	32463.5
45°	14650.0	14700.4	15681.9	17956.8	22486.2	27631.6	32110.6	38245.3	39579.7	39270.9	34944.8
47.5°	13586.6	13711.0	14645.3	16710.7	21470.1	27789.1	33356.7	41016.5	42486.4	42114.6	37627.7
50°	11251.8	11398.3	13380.2	15521.2	20112.0	27467.7	34651.7	43779.8	45276.5	44589.6	39965.7
52.5°	9137.5	9232.1	10593.2	14366.4	18462.5	26631.2	35801.8	46543.1	47880.7	47132.4	42142.9
55°	8395.5	8475.9	9054.0	12469.6	16947.0	25058.9	36432.0	49360.0	50117.8	49235.6	44244.6
57.5°	7926.0	8004.8	8341.9	10097.0	15362.1	22544.5	36578.5	51428.6	52167.5	51105.6	46039.0
60°	7302.2	7388.8	7889.8	8849.2	13654.3	19535.4	35647.4	53317.5	53820.1	52770.8	47798.8
62.5°	6872.1	6908.3	7251.7	8085.1	11916.6	16961.2	32784.8	54113.1	54875.6	54069.0	49309.6
65°	6356.9	6448.3	6736.6	7494.4	10586.9	15297.5	29745.8	53219.8	54607.8	54392.0	50136.7
67.5°	5794.5	5851.2	6142.6	6761.8	9205.3	13991.5	26656.4	51501.0	53260.8	53453.0	49608.9
70°	5180.0	5180.0	5438.4	5956.7	7595.2	12335.7	21936.4	48911.0	50686.5	50856.7	46943.3
72.5°	4384.4	4398.6	4691.7	5142.2	6301.7	10421.5	17066.7	44580.1	47018.9	47617.6	42577.8
75°	3454.9	3514.8	3847.2	4364.0	5140.7	8364.0	12342.0	35543.4	42072.1	43285.1	37070.0
77.5°	748.3	986.2	2328.5	3021.7	3981.1	6530.2	7604.6	20906.1	32411.5	35097.6	29237.0
80°	332.4	378.1	1156.4	1939.4	2312.7	4206.4	4088.3	9410.1	12950.1	19757.6	19110.1
82.5°	163.8	223.7	491.5	1217.8	1384.8	1480.9	1569.1	4471.1	6049.7	7310.0	8174.9
85°	45.7	75.6	253.6	486.8	579.8	359.2	582.9	2101.6	3073.7	3522.7	3395.1
87.5°	0.0	0.0	72.5	151.2	133.9	50.4	156.0	669.6	1006.7	1198.9	1035.1
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°	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2	12148.2
2.5°	12220.7	12105.7	11963.9	11754.3	11593.6	11458.2	11374.7	11220.3	11180.9	11171.4	11128.9
5°	12269.5	12056.8	11710.2	11344.7	11048.5	10763.4	10579.1	10427.8	10303.4	10330.1	10219.9
7.5°	12378.2	12075.7	11540.1	11012.3	10525.5	10156.8	9863.8	9589.7	9468.4	9468.4	9392.8
10°	12471.2	12078.9	11390.4	10697.2	10059.2	9536.1	9159.6	8905.9	8709.0	8647.6	8622.4
12.5°	12601.9	12094.6	11204.5	10364.8	9630.6	8923.3	8483.7	8171.8	8012.7	7954.4	7811.0
15°	12836.7	12201.8	11035.9	9993.0	9118.6	8349.8	7796.8	7489.6	7306.9	7242.3	7215.5
17.5°	13219.5	12416.0	10919.4	9585.0	8614.5	7784.2	7187.1	6818.5	6629.4	6478.2	6460.9
20°	13733.1	12759.5	10883.1	9262.0	8077.3	7223.4	6511.3	6067.0	5711.0	5493.5	5496.7
22.5°	14501.9	13262.0	10949.3	8970.5	7614.1	6654.6	5829.1	5154.8	4557.7	4296.2	4237.9
25°	15582.6	14021.4	11124.2	8732.6	7149.3	6068.6	4898.0	3903.9	3328.9	3062.6	3004.4
27.5°	16967.5	15091.1	11448.7	8531.0	6709.8	5247.8	3766.9	2801.1	2279.7	2043.3	1945.7
30°	18464.1	16428.7	11963.9	8365.6	6152.1	4113.5	2681.4	1926.8	1444.7	1291.9	1291.9
32.5°	20617.7	18041.9	12622.4	8176.5	5421.1	2955.5	1786.5	1244.6	915.3	814.5	814.5
35°	22917.9	19930.9	13452.7	7959.1	4382.9	2021.3	1112.3	734.2	605.0	606.5	605.0
37.5°	24910.8	21597.7	14253.0	7628.3	3196.6	1293.4	658.5	532.5	515.2	501.0	515.2
40°	27105.4	23343.3	14834.3	7087.9	2098.5	748.3	469.5	478.9	460.0	426.9	415.9
42.5°	29058.9	24921.8	15228.2	6227.7	1321.8	466.3	411.2	430.1	426.9	381.3	352.9
45°	31133.8	26615.4	15406.2	4929.5	726.3	422.2	362.4	401.7	400.2	348.2	319.8
47.5°	33174.0	28181.4	15330.6	3355.7	490.0	386.0	334.0	357.6	368.7	318.2	288.3
50°	35817.6	29597.7	14906.8	1929.9	447.4	360.8	310.4	302.5	326.1	274.1	256.8
52.5°	37879.8	31026.7	14046.6	1035.1	423.8	343.4	286.7	253.6	274.1	225.3	237.9
55°	39735.7	32244.5	12542.1	713.7	419.1	326.1	275.7	223.7	228.4	195.4	192.2
57.5°	41582.1	33400.8	10634.2	628.6	425.4	327.7	250.5	195.4	178.0	159.1	132.3
60°	43064.6	34591.9	8502.6	576.6	428.5	324.5	219.0	170.1	129.2	108.7	104.0
62.5°	44202.0	35241.0	6380.5	537.2	417.5	297.8	198.5	141.8	104.0	78.8	75.6
65°	44740.8	35166.9	4299.4	496.3	412.8	285.2	182.8	119.7	81.9	61.4	58.3
67.5°	43871.2	33422.9	2730.2	455.3	404.9	272.6	171.7	104.0	70.9	50.4	47.3
70°	40953.5	30503.6	1622.7	408.0	384.4	250.5	165.4	93.0	61.4	39.4	33.1
72.5°	36274.4	26385.4	1024.0	341.9	348.2	211.1	122.9	78.8	52.0	23.6	20.5
75°	30454.8	21192.8	740.5	253.6	283.6	167.0	97.7	67.7	42.5	14.2	12.6
77.5°	23650.5	14270.3	567.2	167.0	189.1	118.2	69.3	52.0	31.5	7.9	6.3
80°	14423.1	8231.7	445.8	94.5	116.6	69.3	31.5	33.1	14.2	1.6	0.0
82.5°	6958.7	3766.9	258.4	50.4	39.4	36.2	7.9	0.0	1.6	0.0	0.0
85°	2434.1	1134.3	48.8	29.9	12.6	11.0	0.0	0.0	0.0	0.0	0.0
87.5°	652.2	201.7	14.2	12.6	1.6	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)