

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: P622499

Luminaire Tested: **PRV-M-C250-D-U-T3-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-4)
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-T3-BZ-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K 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: 62233 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

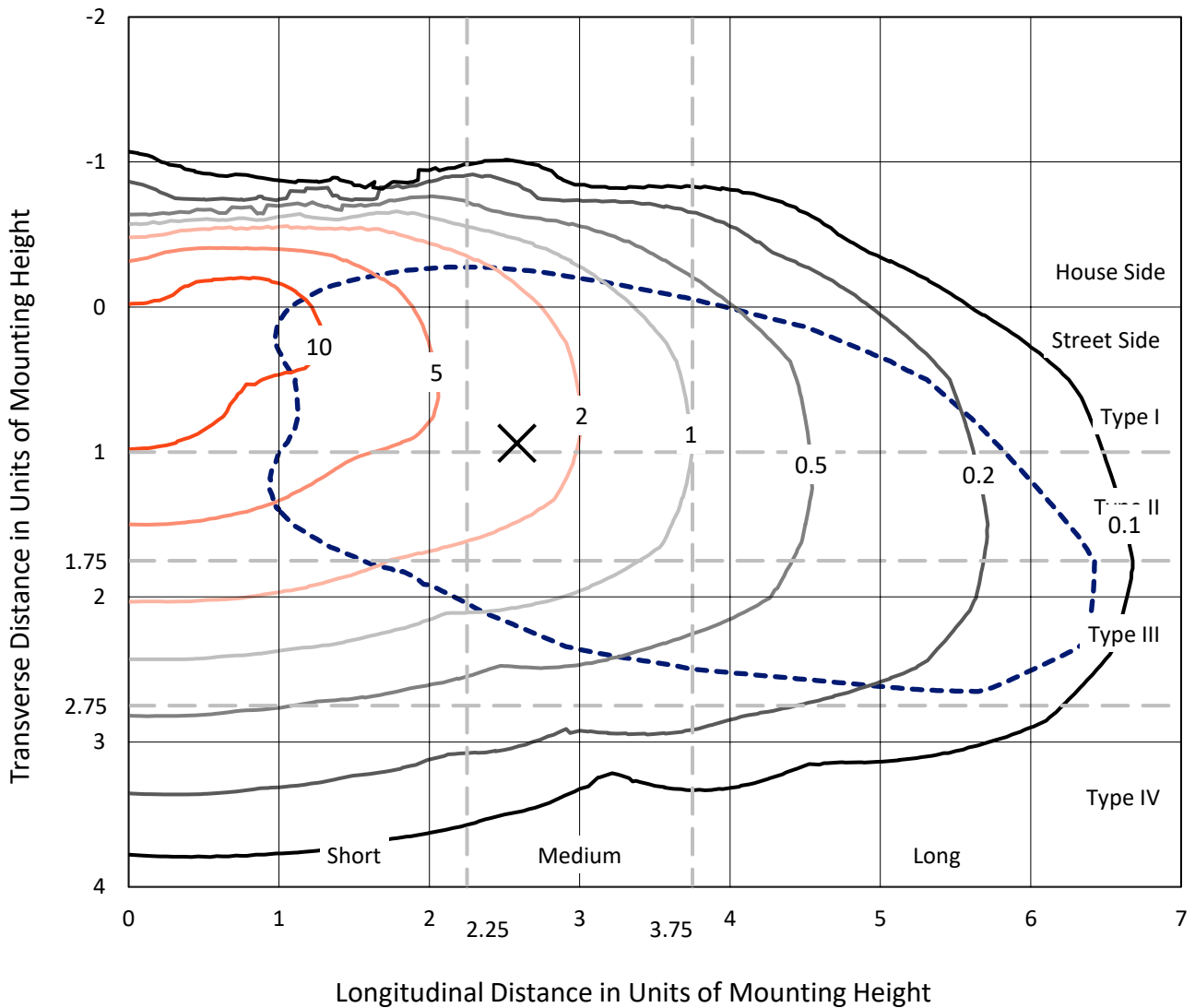
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

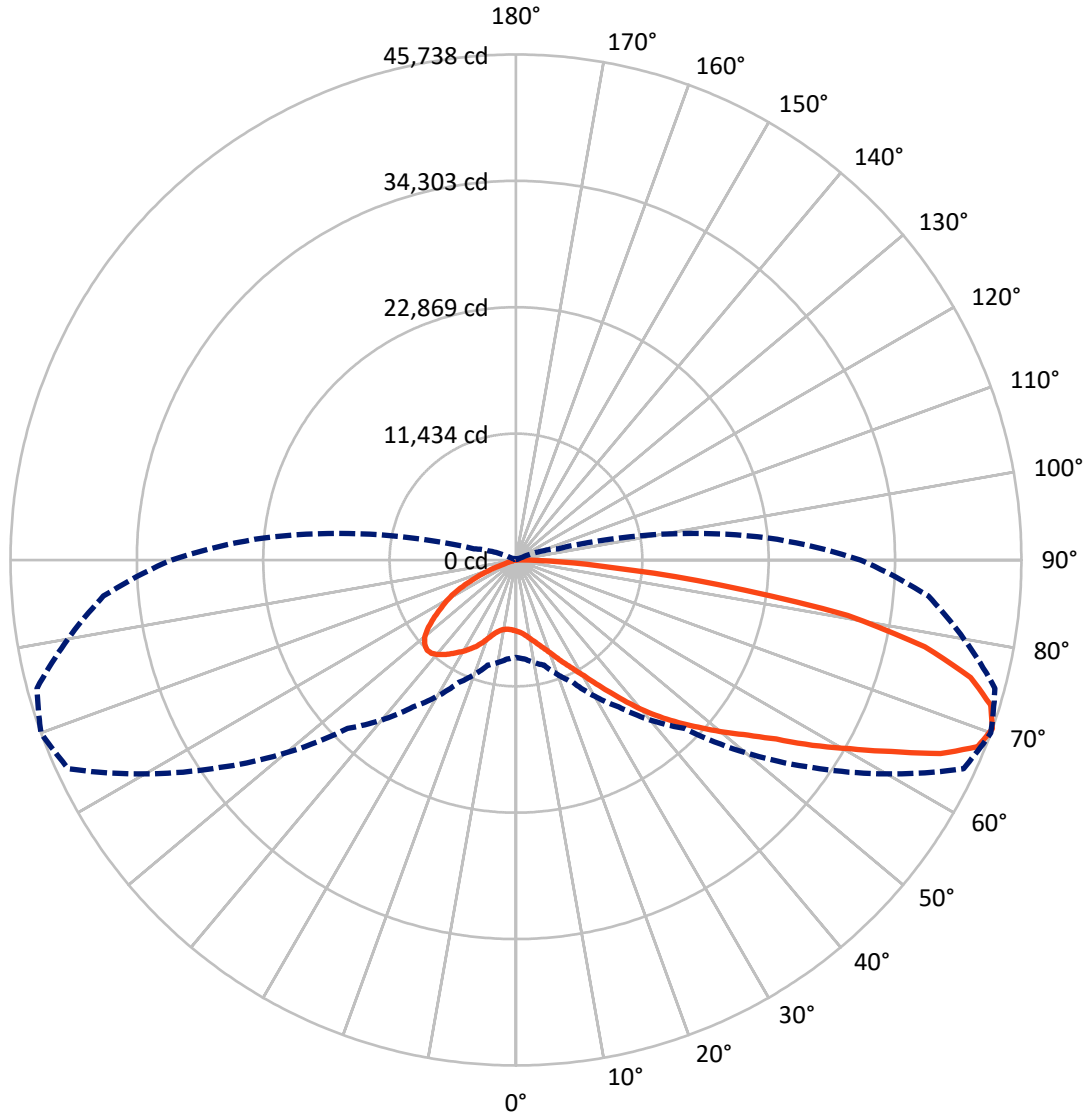
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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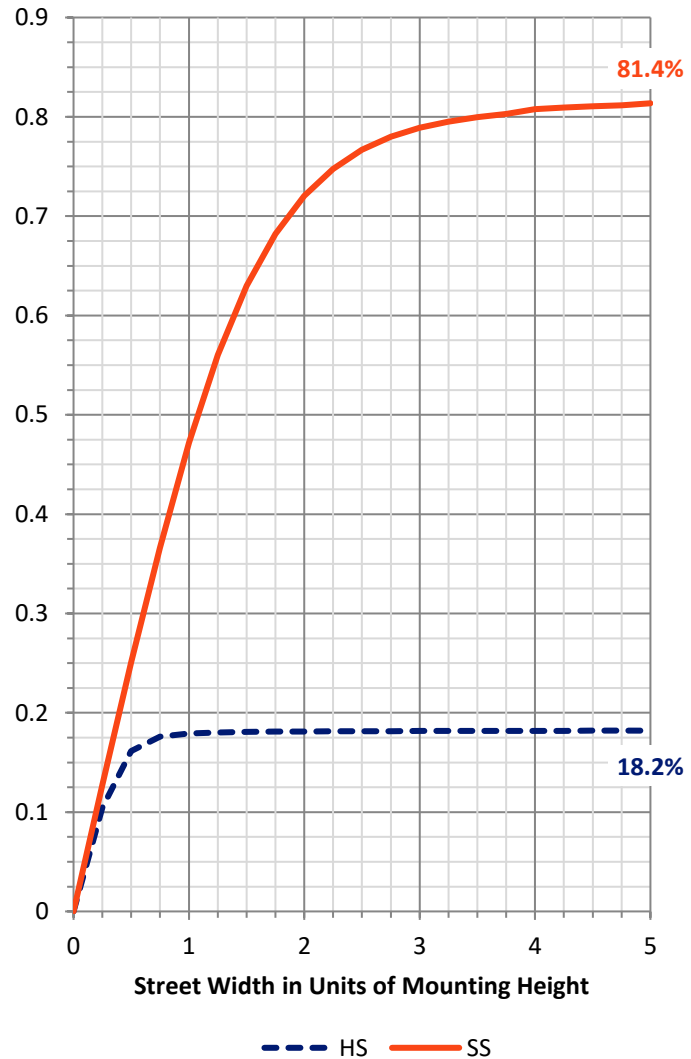
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11455.9	0.0	11455.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	50777.1	0.0	50777.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	62233.0	0.0	62233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.8	1.0
10°-20°	1928.9	3.1
20°-30°	3553.8	5.7
30°-40°	5935.3	9.5
40°-50°	9260.0	14.9
50°-60°	12700.6	20.4
60°-70°	15073.7	24.2
70°-80°	11111.1	17.9
80°-90°	2050.6	3.3
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°	62233.0	100.0
0°-180°	62233.0	100.0

Coefficient of Utilization

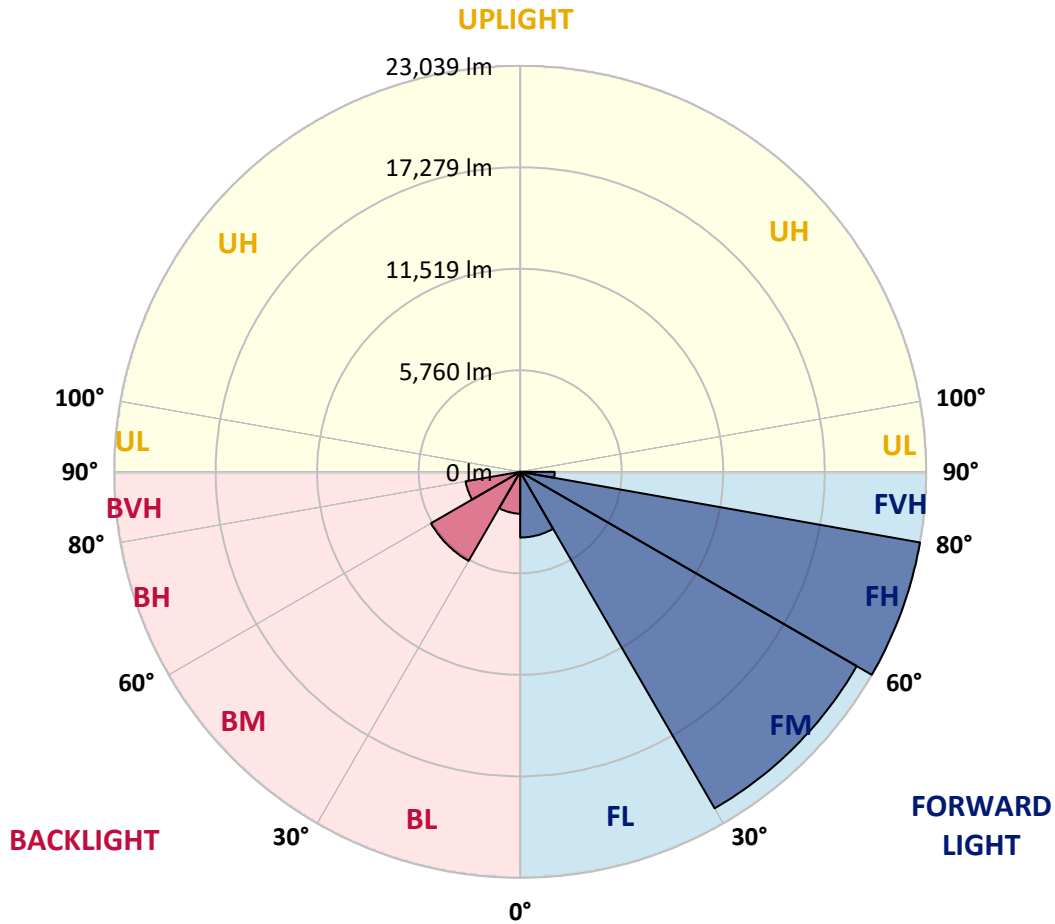


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3729.7	6.0			
FM (30°-60°)	22052.8	35.4			
FH (60°-80°)	23038.7	37.0			G5
FVH (80°-90°)	1955.9	3.1			G5
BL (0°-30°)	2371.9	3.8	B3/2500		
BM (30°-60°)	5843.1	9.4	B4/8500		
BH (60°-80°)	3146.1	5.1	B4/5000		G4/5000
BVH (80°-90°)	94.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1
2.5°	6717.1	6728.0	6753.8	6703.5	6703.5	6620.6	6615.2	6588.0	6540.4	6522.7	6498.2
5°	7016.2	7036.6	7039.3	7001.2	6972.7	6888.4	6835.4	6781.0	6713.0	6677.7	6601.6
7.5°	7247.3	7262.3	7293.5	7269.1	7252.7	7142.6	7114.1	7043.4	6949.6	6891.1	6768.8
10°	7406.4	7455.3	7481.1	7475.7	7509.7	7429.5	7420.0	7342.5	7248.7	7167.1	7018.9
12.5°	7528.7	7570.9	7625.2	7663.3	7727.2	7725.8	7723.1	7676.9	7594.0	7486.6	7315.3
15°	7619.8	7671.5	7761.2	7850.9	7961.0	7993.7	8087.5	8075.2	7992.3	7898.5	7682.3
17.5°	7827.8	7874.0	7946.1	8053.5	8203.0	8298.2	8454.5	8503.5	8464.0	8367.5	8126.9
20°	8133.7	8144.6	8215.2	8313.1	8479.0	8673.4	8950.7	9074.4	8992.9	8952.1	8723.7
22.5°	8495.3	8527.9	8537.4	8627.2	8790.3	9077.1	9457.8	9663.1	9676.7	9581.5	9414.3
25°	8908.6	8919.4	8900.4	8973.8	9206.3	9540.7	9992.1	10319.7	10404.0	10379.5	10330.6
27.5°	9345.0	9411.6	9412.9	9436.0	9650.8	10015.2	10591.6	11113.6	11223.7	11276.8	11494.3
30°	10424.4	10451.6	10340.1	10140.2	10204.1	10602.5	11276.8	11961.9	12155.0	12384.7	13018.2
32.5°	11797.4	11747.1	11584.0	11222.4	10957.3	11271.3	12000.0	12889.1	13360.8	13878.8	14535.4
35°	13131.1	13095.7	12966.6	12605.0	12148.2	12000.0	12769.5	13968.5	14743.4	15764.4	16313.6
37.5°	14380.4	14415.8	14319.2	13963.1	13441.0	13080.8	13623.2	15100.9	16312.2	17637.7	18101.3
40°	15602.6	15632.5	15599.9	15284.5	14982.7	14470.1	14610.2	16310.9	17954.5	19428.1	19814.2
42.5°	16566.4	16677.9	16798.9	16452.2	16309.5	16000.9	15646.1	17425.6	19555.9	21135.6	21418.4
45°	17378.0	17361.7	17499.0	17511.3	17569.7	17428.3	16974.3	18668.2	21112.5	22765.6	22832.2
47.5°	17965.3	17904.2	18037.4	18418.0	18783.7	18747.0	18513.2	19939.3	22716.7	24318.1	24232.5
50°	18273.9	18278.0	18589.3	19213.3	19942.0	20139.1	20072.5	21763.7	24512.5	25988.9	25669.4
52.5°	18515.9	18619.2	19127.7	19936.6	21117.9	21555.7	21663.1	24024.5	26315.2	27633.8	27027.5
55°	18624.7	18802.8	19377.8	20401.5	21963.5	22864.8	23287.6	26395.4	28596.3	29682.6	28480.8
57.5°	18052.3	18263.0	19135.8	20521.1	22544.0	23864.0	24967.9	29205.4	31636.1	31935.2	30186.9
60°	16707.8	16846.5	18241.3	20273.7	22677.2	24781.7	26901.1	32628.5	34665.0	34592.9	31948.8
62.5°	15389.1	15473.4	16750.0	19337.0	22304.7	25230.3	28871.0	36437.7	38158.8	37409.8	33675.3
65°	13586.5	13719.7	15155.3	17635.0	21131.5	25023.7	30963.2	40455.0	42234.5	41505.8	35555.4
67.5°	11434.5	11573.1	12784.4	15163.5	19221.5	23945.6	32128.2	43502.9	45058.1	44144.5	36860.5
70°	8821.6	8988.8	9856.1	12227.0	16245.6	21565.2	32735.9	44691.0	45737.8	44869.1	37462.8
72.5°	6132.5	6293.0	6824.5	8333.5	12386.1	18110.8	32182.6	44464.0	44918.1	44116.0	36255.6
75°	3941.1	4170.8	4599.1	5569.7	7301.7	13093.0	28830.2	42231.8	42491.4	41297.8	33139.7
77.5°	599.5	683.8	2508.2	3264.1	4604.5	6280.7	20438.2	37374.4	37833.9	36463.6	28775.8
80°	422.8	437.7	1082.1	2101.7	2780.1	3510.1	9478.2	27166.2	30445.2	28718.7	20281.9
82.5°	301.8	326.3	513.9	1374.4	1551.1	1345.9	3086.0	15401.4	18479.2	18385.4	10813.2
85°	190.3	210.7	312.7	473.1	837.4	791.2	989.7	6337.8	8628.5	8659.8	4213.0
87.5°	100.6	110.1	182.2	278.7	394.2	440.5	484.0	1808.1	3042.5	2897.0	936.7
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°	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1	6437.1
2.5°	6456.1	6435.7	6393.6	6321.5	6250.8	6201.9	6191.0	6120.3	6112.2	6119.0	6116.2
5°	6537.7	6488.7	6380.0	6235.9	6094.5	5978.9	5897.4	5779.1	5726.1	5707.0	5730.1
7.5°	6684.5	6600.2	6423.5	6201.9	5974.8	5776.4	5617.3	5462.3	5386.2	5329.1	5285.6
10°	6896.6	6781.0	6521.4	6212.8	5900.1	5628.2	5375.3	5155.1	5002.8	4917.2	4891.4
12.5°	7180.7	7023.0	6680.4	6288.9	5881.0	5505.8	5160.5	4850.6	4645.3	4528.4	4506.6
15°	7504.2	7349.3	6941.4	6462.9	5964.0	5482.7	5039.5	4643.9	4310.9	4143.6	4096.1
17.5°	7933.8	7761.2	7320.7	6766.1	6158.4	5542.5	4945.7	4385.6	3919.3	3693.7	3663.8
20°	8536.1	8352.6	7861.8	7168.5	6414.0	5602.4	4811.1	4086.6	3478.9	3175.7	3107.7
22.5°	9251.2	9088.0	8517.0	7589.9	6616.5	5586.0	4599.1	3648.8	2894.3	2547.6	2487.8
25°	10231.3	10073.6	9192.7	7939.3	6718.5	5467.8	4240.2	3053.4	2186.0	1827.1	1804.0
27.5°	11423.6	11076.9	9790.9	8222.0	6680.4	5160.5	3652.9	2220.0	1469.6	1186.8	1152.8
30°	12693.3	12144.1	10459.7	8450.4	6573.0	4672.5	2785.5	1462.8	921.7	776.3	746.3
32.5°	14179.2	13439.7	11094.6	8605.4	6326.9	3990.0	1896.5	898.6	583.2	496.2	490.8
35°	15745.3	14803.2	11879.0	8688.3	5882.4	3081.9	1084.9	524.8	364.3	354.8	354.8
37.5°	17414.7	16280.9	12730.0	8700.6	5208.1	2025.6	628.1	314.0	280.0	322.2	338.5
40°	18942.8	17618.7	13591.9	8586.4	4350.3	1158.3	346.7	239.3	251.5	297.7	312.7
42.5°	20405.6	18912.9	14437.5	8315.8	3120.0	636.2	244.7	209.4	223.0	247.4	252.9
45°	21716.1	20076.6	15077.8	7818.3	1934.5	357.5	221.6	183.5	184.9	202.6	205.3
47.5°	22984.5	21161.4	15482.9	7054.3	1000.6	295.0	202.6	165.9	161.8	179.4	184.9
50°	24189.0	22172.9	15722.2	6010.2	515.2	273.3	191.7	152.3	153.6	187.6	190.3
52.5°	25355.4	23138.1	15782.0	4521.6	356.2	246.1	175.4	142.7	148.2	194.4	201.2
55°	26610.2	24149.5	15648.8	2712.1	335.8	225.7	159.1	129.1	140.0	157.7	160.4
57.5°	27758.9	25152.8	15154.0	1150.1	318.1	206.6	144.1	118.3	112.8	127.8	133.2
60°	29028.7	26107.2	13973.9	542.4	296.4	184.9	129.1	104.7	96.5	106.0	111.5
62.5°	30802.8	26823.6	11961.9	407.8	278.7	171.3	115.6	95.2	87.0	92.4	97.9
65°	31763.9	26892.9	9342.2	356.2	265.1	160.4	106.0	89.7	77.5	80.2	85.6
67.5°	32133.7	25526.7	6774.2	310.0	246.1	149.5	97.9	84.3	72.1	69.3	72.1
70°	31171.2	22894.7	3937.0	285.5	223.0	138.7	92.4	81.6	66.6	58.5	58.5
72.5°	28365.2	19284.0	1631.4	254.2	198.5	123.7	87.0	84.3	63.9	46.2	46.2
75°	24430.9	15026.2	486.7	210.7	169.9	112.8	87.0	87.0	62.5	35.3	35.3
77.5°	19399.6	9368.1	289.6	164.5	134.6	100.6	85.6	82.9	47.6	27.2	25.8
80°	11026.6	3323.9	210.7	122.4	103.3	82.9	76.1	68.0	35.3	23.1	23.1
82.5°	4406.0	753.1	149.5	87.0	84.3	63.9	50.3	39.4	28.5	20.4	20.4
85°	1155.5	237.9	89.7	57.1	51.7	47.6	17.7	16.3	23.1	19.0	19.0
87.5°	190.3	95.2	47.6	43.5	32.6	23.1	8.2	8.2	13.6	16.3	17.7
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)