

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: P622457

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622457
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-C225-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: 54047 lumens
Efficiency: N/A
Efficacy: 129.3 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

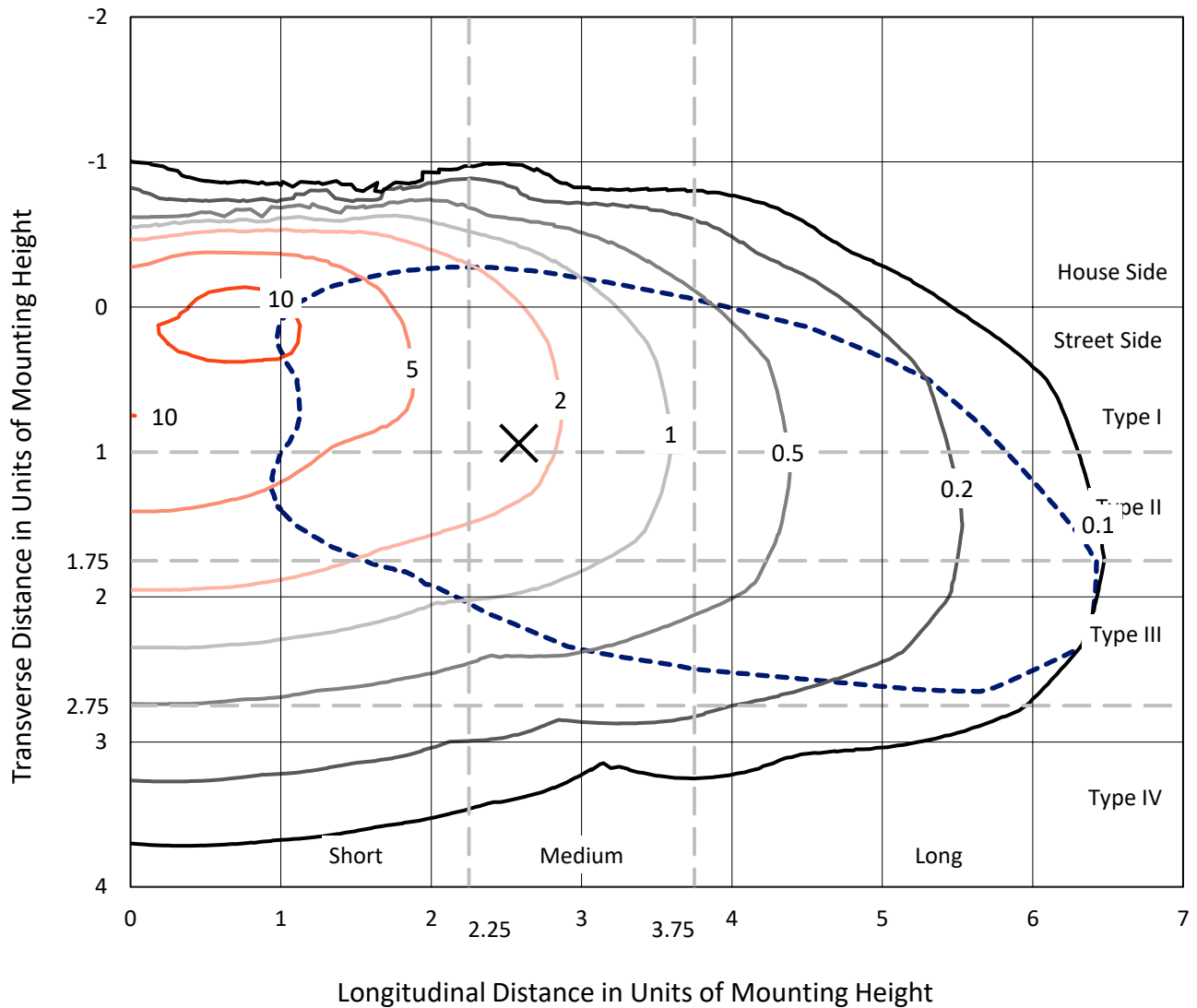
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P622457
 CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-HSS

Iso-Footcandle Lines of Horizontal Illumination

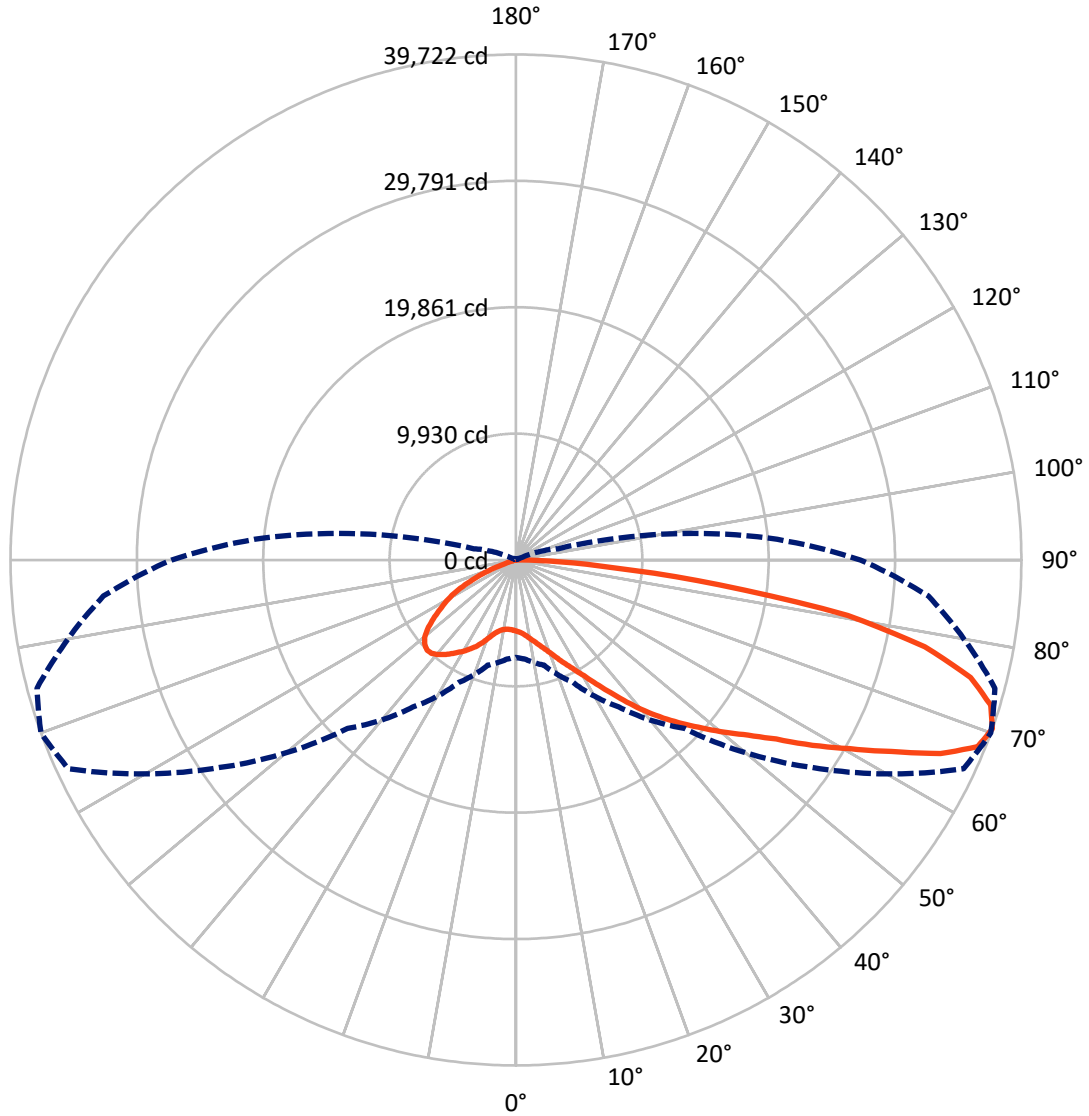
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P622457
CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-HSS

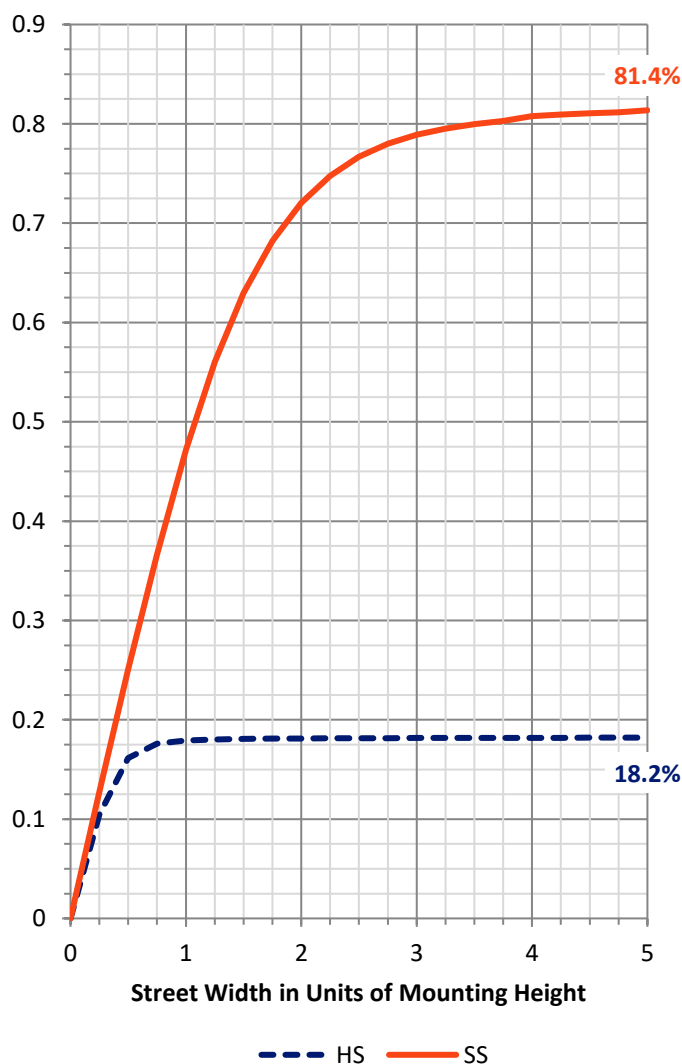
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9949.0	0.0	9949.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	44098.0	0.0	44098.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	54047.0	0.0	54047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.4	1.0
10°-20°	1675.2	3.1
20°-30°	3086.4	5.7
30°-40°	5154.6	9.5
40°-50°	8042.0	14.9
50°-60°	11030.0	20.4
60°-70°	13090.9	24.2
70°-80°	9649.6	17.9
80°-90°	1780.9	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°	54047.0	100.0
0°-180°	54047.0	100.0

Coefficient of Utilization

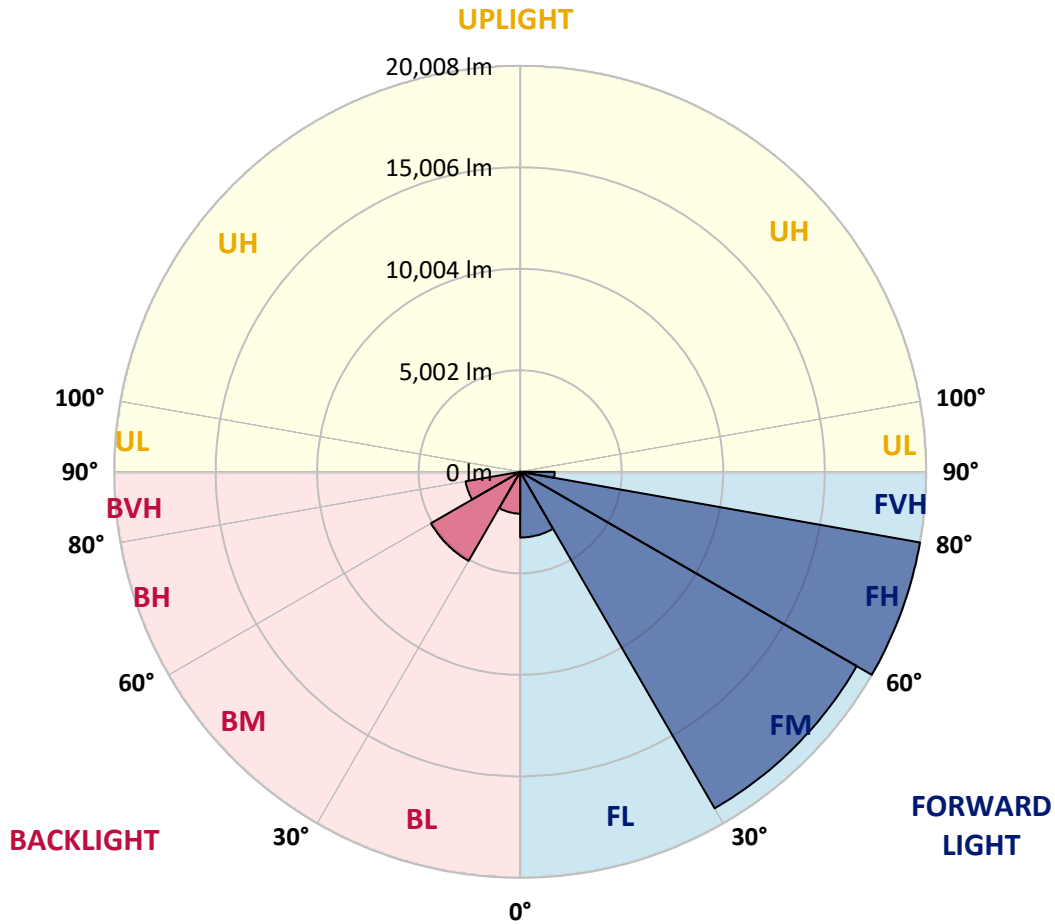


REPORT NUMBER: P622457
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3239.1	6.0			
FM (30°-60°)	19152.1	35.4			
FH (60°-80°)	20008.2	37.0			G5
FVH (80°-90°)	1698.6	3.1			G5
BL (0°-30°)	2059.9	3.8	B3/2500		
BM (30°-60°)	5074.5	9.4	B4/8500		
BH (60°-80°)	2732.3	5.1	B4/5000		G4/5000
BVH (80°-90°)	82.3	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°	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3
2.5°	5833.6	5843.0	5865.4	5821.8	5821.8	5749.7	5745.0	5721.4	5680.1	5664.7	5643.5
5°	6093.3	6111.0	6113.4	6080.3	6055.5	5982.3	5936.3	5889.1	5830.0	5799.3	5733.2
7.5°	6294.0	6307.0	6334.2	6312.9	6298.7	6203.1	6178.3	6116.9	6035.4	5984.7	5878.4
10°	6432.1	6474.6	6497.1	6492.4	6521.9	6452.2	6444.0	6376.7	6295.2	6224.4	6095.7
12.5°	6538.4	6575.0	6622.2	6655.3	6710.8	6709.6	6707.2	6667.1	6595.1	6501.8	6353.0
15°	6617.5	6662.4	6740.3	6818.2	6913.8	6942.2	7023.6	7013.0	6941.0	6859.5	6671.8
17.5°	6798.1	6838.3	6900.9	6994.1	7124.0	7206.6	7342.4	7384.9	7350.7	7266.9	7057.9
20°	7063.8	7073.2	7134.6	7219.6	7363.7	7532.5	7773.4	7880.8	7810.0	7774.5	7576.2
22.5°	7377.8	7406.2	7414.4	7492.4	7634.0	7883.2	8213.7	8392.0	8403.8	8321.2	8176.0
25°	7736.8	7746.2	7729.7	7793.4	7995.3	8285.8	8677.7	8962.3	9035.5	9014.2	8971.7
27.5°	8115.7	8173.6	8174.8	8194.8	8381.4	8697.8	9198.4	9651.8	9747.4	9793.4	9982.3
30°	9053.2	9076.8	8980.0	8806.4	8861.9	9207.8	9793.4	10388.5	10556.1	10755.7	11305.8
32.5°	10245.6	10201.9	10060.3	9746.2	9516.0	9788.7	10421.5	11193.7	11603.4	12053.2	12623.4
35°	11403.8	11373.1	11261.0	10946.9	10550.2	10421.5	11089.8	12131.1	12804.1	13690.7	14167.7
37.5°	12488.8	12519.5	12435.7	12126.4	11673.0	11360.2	11831.2	13114.6	14166.5	15317.7	15720.3
40°	13550.2	13576.2	13547.9	13274.0	13011.9	12566.8	12688.4	14165.4	15592.8	16872.6	17207.9
42.5°	14387.3	14484.1	14589.2	14288.1	14164.2	13896.2	13588.0	15133.5	16983.6	18355.5	18601.0
45°	15092.2	15078.0	15197.2	15207.9	15258.6	15135.9	14741.5	16212.6	18335.4	19771.1	19828.9
47.5°	15602.2	15549.1	15664.8	15995.4	16313.0	16281.1	16078.0	17316.5	19728.6	21119.4	21045.0
50°	15870.2	15873.8	16144.1	16686.0	17318.9	17490.1	17432.2	18900.9	21288.2	22570.4	22292.9
52.5°	16080.4	16170.1	16611.7	17314.1	18340.1	18720.3	18813.6	20864.3	22853.7	23998.9	23472.4
55°	16174.8	16329.5	16828.9	17717.9	19074.5	19857.2	20224.4	22923.4	24834.8	25778.2	24734.5
57.5°	15677.8	15860.8	16618.7	17821.8	19578.6	20725.0	21683.7	25363.8	27474.8	27734.5	26216.2
60°	14510.1	14630.5	15841.9	17606.9	19694.3	21522.0	23362.6	28336.6	30105.2	30042.7	27746.3
62.5°	13364.9	13438.1	14546.7	16793.5	19370.8	21911.6	25073.3	31644.8	33139.5	32489.0	29245.7
65°	11799.4	11915.1	13161.8	15315.3	18351.9	21732.1	26890.3	35133.6	36679.1	36046.2	30878.6
67.5°	9930.4	10050.8	11102.8	13168.9	16693.1	20795.9	27902.1	37780.6	39131.3	38337.9	32012.0
70°	7661.2	7806.4	8559.7	10618.7	14108.7	18728.5	28429.9	38812.5	39721.6	38967.1	32535.0
72.5°	5325.9	5465.2	5926.8	7237.3	10756.8	15728.5	27949.4	38615.3	39009.6	38313.1	31486.6
75°	3422.7	3622.2	3994.1	4837.1	6341.2	11370.8	25037.9	36676.7	36902.2	35865.6	28780.5
77.5°	520.7	593.9	2178.3	2834.7	3998.8	5454.6	17749.8	32458.3	32857.3	31667.2	24990.7
80°	367.2	380.2	939.8	1825.3	2414.4	3048.4	8231.4	23592.8	26440.5	24941.1	17614.0
82.5°	262.1	283.4	446.3	1193.6	1347.1	1168.8	2680.1	13375.5	16048.5	15967.0	9390.8
85°	165.3	183.0	271.5	410.9	727.3	687.1	859.5	5504.2	7493.5	7520.7	3658.8
87.5°	87.4	95.6	158.2	242.0	342.4	382.5	420.3	1570.3	2642.3	2516.0	813.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622457

CATALOG NUMBER: PRV-M-C225-D-U-T3-BZ-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3	5590.3
2.5°	5606.9	5589.2	5552.6	5490.0	5428.6	5386.1	5376.7	5315.3	5308.2	5314.1	5311.7
5°	5677.7	5635.2	5540.8	5415.6	5292.8	5192.5	5121.6	5018.9	4972.9	4956.3	4976.4
7.5°	5805.2	5732.0	5578.5	5386.1	5188.9	5016.6	4878.4	4743.8	4677.7	4628.1	4590.3
10°	5989.4	5889.1	5663.5	5395.5	5124.0	4887.9	4668.3	4477.0	4344.8	4270.4	4248.0
12.5°	6236.2	6099.2	5801.7	5461.7	5107.5	4781.6	4481.7	4212.5	4034.3	3932.7	3913.8
15°	6517.2	6382.6	6028.4	5612.8	5179.5	4761.5	4376.6	4033.1	3743.8	3598.6	3557.3
17.5°	6890.2	6740.3	6357.8	5876.1	5348.3	4813.5	4295.2	3808.8	3403.8	3207.8	3181.8
20°	7413.3	7253.9	6827.7	6225.5	5570.3	4865.4	4178.3	3549.0	3021.3	2758.0	2699.0
22.5°	8034.3	7892.6	7396.7	6591.5	5746.2	4851.3	3994.1	3168.8	2513.6	2212.5	2160.6
25°	8885.5	8748.6	7983.5	6895.0	5834.7	4748.5	3682.4	2651.7	1898.5	1586.8	1566.7
27.5°	9920.9	9619.9	8503.0	7140.5	5801.7	4481.7	3172.4	1928.0	1276.3	1030.7	1001.2
30°	11023.7	10546.7	9083.9	7338.9	5708.4	4057.9	2419.1	1270.4	800.5	674.1	648.2
32.5°	12314.1	11671.8	9635.2	7473.5	5494.7	3465.2	1647.0	780.4	506.5	430.9	426.2
35°	13674.2	12856.0	10316.5	7545.5	5108.6	2676.5	942.2	455.7	316.4	308.1	308.1
37.5°	15124.0	14139.4	11055.5	7556.1	4523.0	1759.2	545.5	272.7	243.2	279.8	294.0
40°	16451.1	15301.1	11804.1	7456.9	3778.1	1005.9	301.1	207.8	218.4	258.6	271.5
42.5°	17721.5	16425.1	12538.4	7222.0	2709.6	552.5	212.5	181.8	193.6	214.9	219.6
45°	18859.6	17435.7	13094.5	6789.9	1680.1	310.5	192.4	159.4	160.6	175.9	178.3
47.5°	19961.1	18377.9	13446.3	6126.4	869.0	256.2	175.9	144.0	140.5	155.8	160.6
50°	21007.2	19256.3	13654.1	5219.6	447.5	237.3	166.5	132.2	133.4	162.9	165.3
52.5°	22020.2	20094.6	13706.1	3926.8	309.3	213.7	152.3	124.0	128.7	168.8	174.7
55°	23109.9	20973.0	13590.4	2355.4	291.6	196.0	138.1	112.2	121.6	137.0	139.3
57.5°	24107.6	21844.3	13160.6	998.8	276.3	179.5	125.1	102.7	98.0	111.0	115.7
60°	25210.3	22673.1	12135.8	471.1	257.4	160.6	112.2	90.9	83.8	92.1	96.8
62.5°	26751.0	23295.3	10388.5	354.2	242.0	148.8	100.4	82.6	75.6	80.3	85.0
65°	27585.7	23355.5	8113.4	309.3	230.2	139.3	92.1	77.9	67.3	69.7	74.4
67.5°	27906.9	22168.9	5883.1	269.2	213.7	129.9	85.0	73.2	62.6	60.2	62.6
70°	27071.0	19883.2	3419.1	247.9	193.6	120.4	80.3	70.8	57.9	50.8	50.8
72.5°	24634.1	16747.4	1416.8	220.8	172.4	107.4	75.6	73.2	55.5	40.1	40.1
75°	21217.3	13049.7	422.7	183.0	147.6	98.0	75.6	75.6	54.3	30.7	30.7
77.5°	16847.8	8135.8	251.5	142.9	116.9	87.4	74.4	72.0	41.3	23.6	22.4
80°	9576.2	2886.7	183.0	106.3	89.7	72.0	66.1	59.0	30.7	20.1	20.1
82.5°	3826.5	654.1	129.9	75.6	73.2	55.5	43.7	34.2	24.8	17.7	17.7
85°	1003.5	206.6	77.9	49.6	44.9	41.3	15.3	14.2	20.1	16.5	16.5
87.5°	165.3	82.6	41.3	37.8	28.3	20.1	7.1	7.1	11.8	14.2	15.3
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)