

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: P622501

Luminaire Tested: **PRV-M-C250-D-U-T3-BZ-7050-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622501  
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-7050-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 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: 63374 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

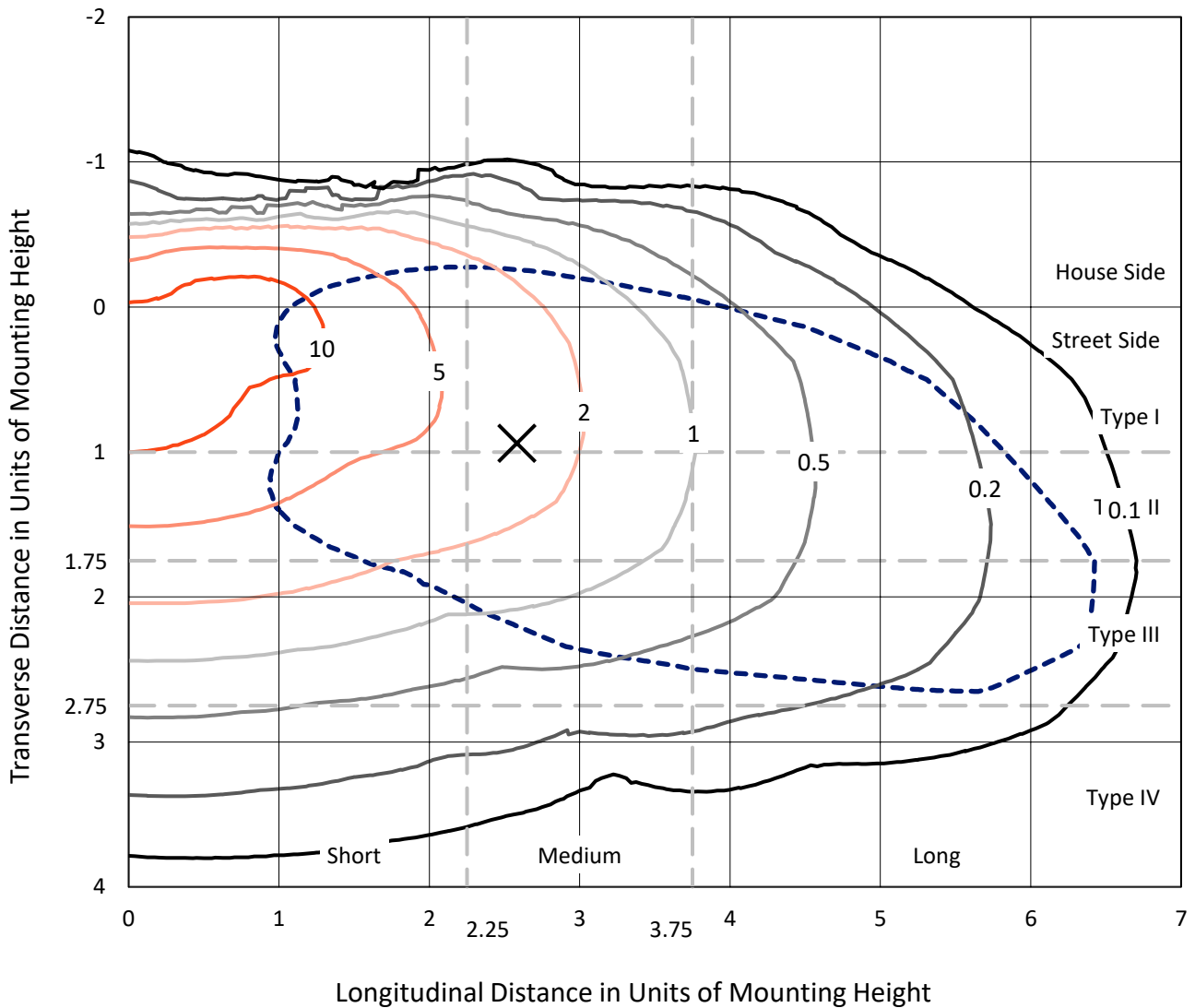
Input Watts (W): 486.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

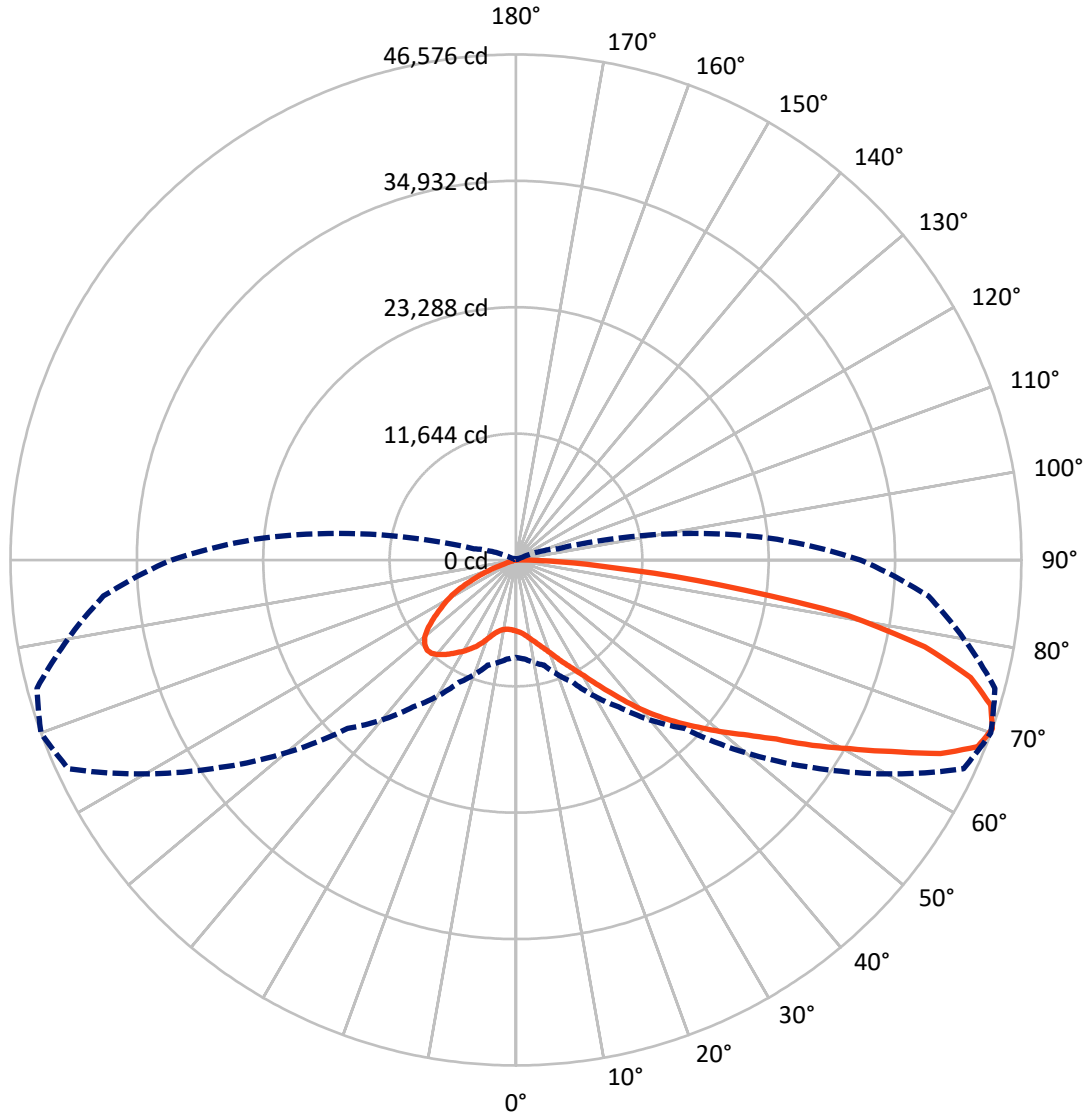
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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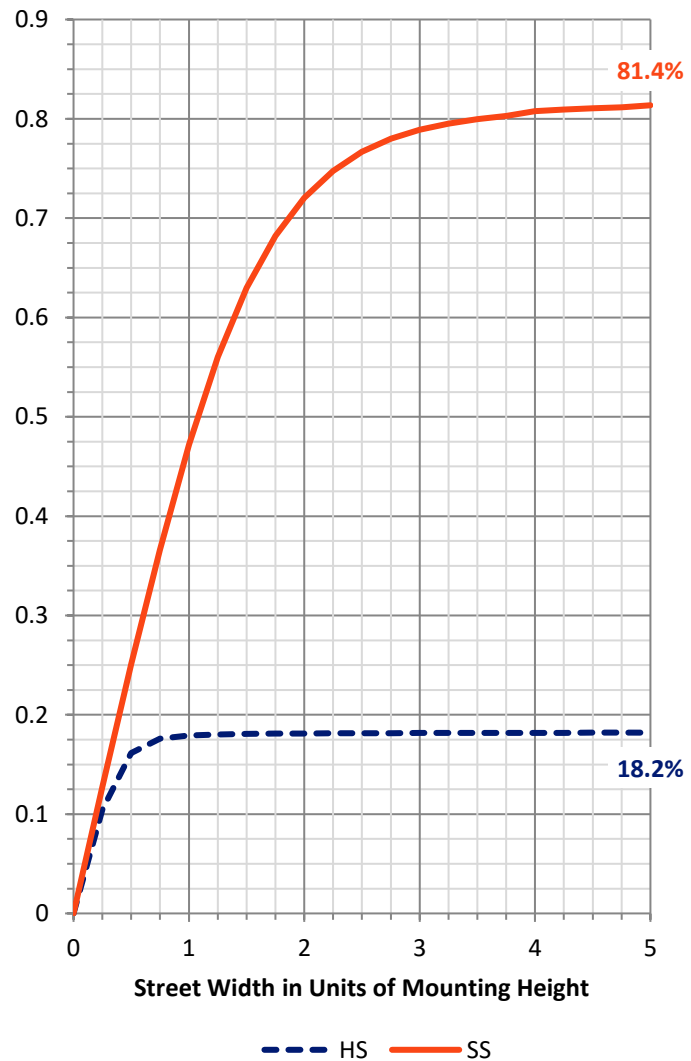
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11665.9	0.0	11665.9
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	51708.1	0.0	51708.1
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	63374.0	0.0	63374.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.1	1.0
10°-20°	1964.3	3.1
20°-30°	3619.0	5.7
30°-40°	6044.1	9.5
40°-50°	9429.8	14.9
50°-60°	12933.5	20.4
60°-70°	15350.0	24.2
70°-80°	11314.9	17.9
80°-90°	2088.2	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°	63374.0	100.0
0°-180°	63374.0	100.0

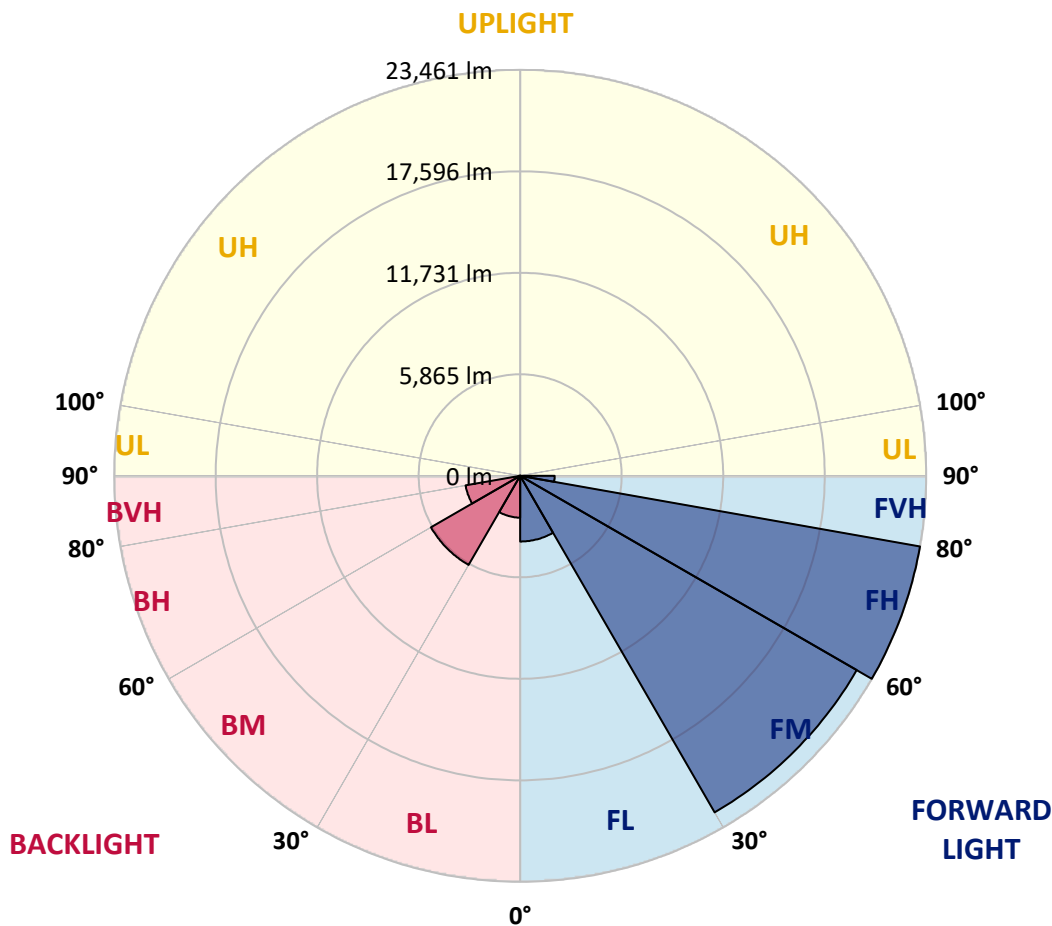


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3798.1	6.0			
FM (30°-60°)	22457.2	35.4			
FH (60°-80°)	23461.1	37.0			G5
FVH (80°-90°)	1991.8	3.1			G5
BL (0°-30°)	2415.4	3.8	B3/2500		
BM (30°-60°)	5950.3	9.4	B4/8500		
BH (60°-80°)	3203.8	5.1	B4/5000		G4/5000
BVH (80°-90°)	96.5	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°	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1
2.5°	6840.3	6851.3	6877.6	6826.4	6826.4	6742.0	6736.4	6708.8	6660.3	6642.3	6617.4
5°	7144.8	7165.6	7168.4	7129.6	7100.5	7014.7	6960.7	6905.3	6836.1	6800.1	6722.6
7.5°	7380.2	7395.4	7427.3	7402.3	7385.7	7273.6	7244.5	7172.5	7077.0	7017.5	6892.9
10°	7542.2	7592.0	7618.3	7612.8	7647.4	7565.7	7556.0	7477.1	7381.6	7298.5	7147.6
12.5°	7666.7	7709.7	7765.0	7803.8	7868.9	7867.5	7864.7	7817.6	7733.2	7623.8	7449.4
15°	7759.5	7812.1	7903.5	7994.9	8107.0	8140.2	8235.7	8223.3	8138.8	8043.3	7823.2
17.5°	7971.3	8018.4	8091.8	8201.1	8353.4	8450.3	8609.5	8659.4	8619.2	8520.9	8275.9
20°	8282.8	8293.9	8365.9	8465.5	8634.4	8832.4	9114.8	9240.8	9157.7	9116.2	8883.6
22.5°	8651.1	8684.3	8694.0	8785.3	8951.5	9243.6	9631.2	9840.2	9854.1	9757.2	9586.9
25°	9071.9	9083.0	9063.6	9138.4	9375.1	9715.6	10175.3	10508.9	10594.7	10569.8	10520.0
27.5°	9516.3	9584.1	9585.5	9609.0	9827.8	10198.8	10785.8	11317.4	11429.5	11483.5	11705.0
30°	10615.5	10643.2	10529.7	10326.2	10391.2	10796.9	11483.5	12181.2	12377.8	12611.8	13256.9
32.5°	12013.7	11962.5	11796.4	11428.1	11158.2	11478.0	12220.0	13125.4	13605.8	14133.2	14801.9
35°	13371.8	13335.8	13204.3	12836.1	12370.9	12220.0	13003.6	14224.6	15013.7	16053.4	16612.7
37.5°	14644.1	14680.1	14581.8	14219.1	13687.5	13320.6	13873.0	15377.8	16611.3	17961.1	18433.1
40°	15888.6	15919.1	15885.9	15564.7	15257.4	14735.4	14878.0	16609.9	18283.6	19784.3	20177.5
42.5°	16870.2	16983.7	17106.9	16753.9	16608.5	16294.3	15932.9	17745.1	19914.4	21523.1	21811.1
45°	17696.7	17680.0	17819.9	17832.3	17891.9	17747.9	17285.5	19010.4	21499.6	23183.0	23250.8
47.5°	18294.7	18232.4	18368.1	18755.7	19128.1	19090.7	18852.6	20304.8	23133.2	24764.0	24676.7
50°	18609.0	18613.1	18930.1	19565.6	20307.6	20508.3	20440.5	22162.7	24961.9	26465.4	26140.0
52.5°	18855.4	18960.6	19478.4	20302.1	21505.1	21950.9	22060.2	24464.9	26797.6	28140.5	27523.1
55°	18966.1	19147.5	19733.1	20775.5	22366.2	23284.0	23714.6	26879.3	29120.6	30226.8	29003.0
57.5°	18383.3	18597.9	19486.7	20897.4	22957.3	24301.6	25425.7	29740.8	32216.1	32520.7	30740.4
60°	17014.1	17155.4	18575.7	20645.4	23093.0	25236.0	27394.3	33226.7	35300.6	35227.2	32534.5
62.5°	15671.3	15757.1	17057.1	19691.6	22713.7	25692.9	29400.3	37105.8	38858.4	38095.6	34292.7
65°	13835.6	13971.3	15433.2	17958.3	21519.0	25482.5	31530.9	41196.7	43008.8	42266.8	36207.3
67.5°	11644.1	11785.3	13018.8	15441.5	19573.9	24384.6	32717.3	44300.5	45884.2	44953.9	37536.3
70°	8983.3	9153.6	10036.8	12451.2	16543.5	21960.6	33336.1	45510.4	46576.4	45691.8	38149.6
72.5°	6245.0	6408.3	6949.6	8486.3	12613.2	18442.8	32772.7	45279.2	45741.6	44924.8	36920.3
75°	4013.3	4247.3	4683.4	5671.8	7435.6	13333.1	29358.8	43006.1	43270.5	42055.0	33747.3
77.5°	610.5	696.3	2554.2	3323.9	4688.9	6395.9	20812.9	38059.6	38527.6	37132.1	29303.4
80°	430.5	445.8	1102.0	2140.3	2831.1	3574.5	9652.0	27664.3	31003.4	29245.2	20653.7
82.5°	307.3	332.3	523.3	1399.6	1579.6	1370.5	3142.6	15683.8	18818.0	18722.5	11011.4
85°	193.8	214.6	318.4	481.8	852.8	805.7	1007.8	6454.0	8786.7	8818.6	4290.2
87.5°	102.4	112.1	185.5	283.8	401.5	448.5	492.8	1841.2	3098.3	2950.1	953.8
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°	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1	6555.1
2.5°	6574.5	6553.7	6510.8	6437.4	6365.4	6315.6	6304.5	6232.5	6224.2	6231.1	6228.4
5°	6657.5	6607.7	6496.9	6350.2	6206.2	6088.5	6005.5	5885.0	5831.0	5811.7	5835.2
7.5°	6807.0	6721.2	6541.2	6315.6	6084.4	5882.3	5720.3	5562.5	5485.0	5426.8	5382.5
10°	7023.0	6905.3	6640.9	6326.7	6008.3	5731.4	5473.9	5249.6	5094.6	5007.3	4981.0
12.5°	7312.3	7151.8	6802.9	6404.2	5988.9	5606.8	5255.1	4939.5	4730.5	4611.4	4589.3
15°	7641.8	7484.0	7068.7	6581.4	6073.3	5583.2	5131.9	4729.1	4389.9	4219.6	4171.2
17.5°	8079.3	7903.5	7454.9	6890.1	6271.3	5644.2	5036.4	4466.0	3991.2	3761.4	3730.9
20°	8692.6	8505.7	8005.9	7299.9	6531.6	5705.1	4899.4	4161.5	3542.7	3233.9	3164.7
22.5°	9420.8	9254.6	8673.2	7729.0	6737.8	5688.5	4683.4	3715.7	2947.4	2594.3	2533.4
25°	10418.9	10258.3	9361.2	8084.8	6841.7	5568.0	4317.9	3109.3	2226.1	1860.6	1837.1
27.5°	11633.0	11280.0	9970.4	8372.8	6802.9	5255.1	3719.9	2260.7	1496.5	1208.6	1174.0
30°	12926.0	12366.8	10651.5	8605.4	6693.5	4758.1	2836.6	1489.6	938.6	790.5	760.0
32.5°	14439.2	13686.1	11298.0	8763.2	6442.9	4063.2	1931.2	915.1	593.9	505.3	499.8
35°	16034.0	15074.6	12096.8	8847.6	5990.3	3138.4	1104.7	534.4	371.0	361.3	361.3
37.5°	17734.0	16579.5	12963.4	8860.1	5303.6	2062.7	639.6	319.8	285.2	328.1	344.7
40°	19290.1	17941.7	13841.1	8743.8	4430.0	1179.5	353.0	243.7	256.1	303.2	318.4
42.5°	20779.7	19259.6	14702.2	8468.3	3177.2	647.9	249.2	213.2	227.0	252.0	257.5
45°	22114.2	20444.7	15354.3	7961.6	1970.0	364.1	225.7	186.9	188.3	206.3	209.0
47.5°	23405.9	21549.4	15766.8	7183.6	1018.9	300.4	206.3	168.9	164.7	182.7	188.3
50°	24632.4	22579.4	16010.5	6120.4	524.7	278.3	195.2	155.1	156.4	191.0	193.8
52.5°	25820.3	23562.3	16071.4	4604.5	362.7	250.6	178.6	145.4	150.9	198.0	204.9
55°	27098.0	24592.3	15935.7	2761.9	341.9	229.8	162.0	131.5	142.6	160.6	163.4
57.5°	28267.9	25614.0	15431.8	1171.2	323.9	210.4	146.7	120.4	114.9	130.1	135.7
60°	29560.9	26585.8	14230.1	552.4	301.8	188.3	131.5	106.6	98.3	108.0	113.5
62.5°	31367.5	27315.4	12181.2	415.3	283.8	174.4	117.7	96.9	88.6	94.1	99.7
65°	32346.3	27386.0	9513.5	362.7	270.0	163.4	108.0	91.4	78.9	81.7	87.2
67.5°	32722.8	25994.7	6898.4	315.6	250.6	152.3	99.7	85.8	73.4	70.6	73.4
70°	31742.7	23314.5	4009.2	290.7	227.0	141.2	94.1	83.1	67.8	59.5	59.5
72.5°	28885.3	19637.6	1661.3	258.9	202.1	126.0	88.6	85.8	65.1	47.1	47.1
75°	24878.9	15301.7	495.6	214.6	173.0	114.9	88.6	88.6	63.7	36.0	36.0
77.5°	19755.2	9539.8	294.9	167.5	137.1	102.4	87.2	84.4	48.5	27.7	26.3
80°	11228.8	3384.8	214.6	124.6	105.2	84.4	77.5	69.2	36.0	23.5	23.5
82.5°	4486.8	767.0	152.3	88.6	85.8	65.1	51.2	40.1	29.1	20.8	20.8
85°	1176.7	242.3	91.4	58.1	52.6	48.5	18.0	16.6	23.5	19.4	19.4
87.5°	193.8	96.9	48.5	44.3	33.2	23.5	8.3	8.3	13.8	16.6	18.0
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)