

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: P622444

Luminaire Tested: **PRV-M-C225-D-U-T2-BZ-7030**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)  
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-T2-BZ-7030  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58368 lumens  
Efficiency: N/A  
Efficacy: 139.6 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

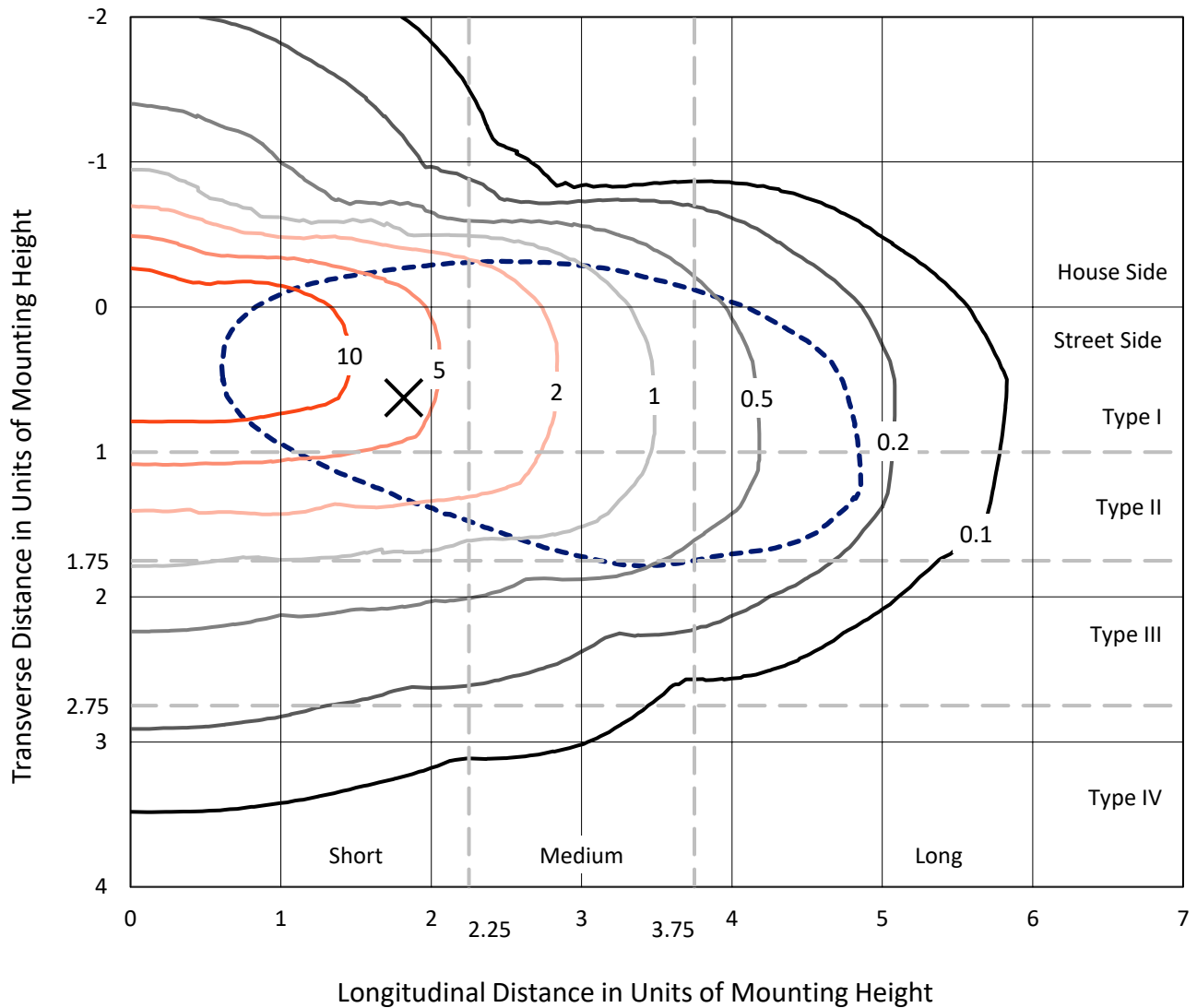
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

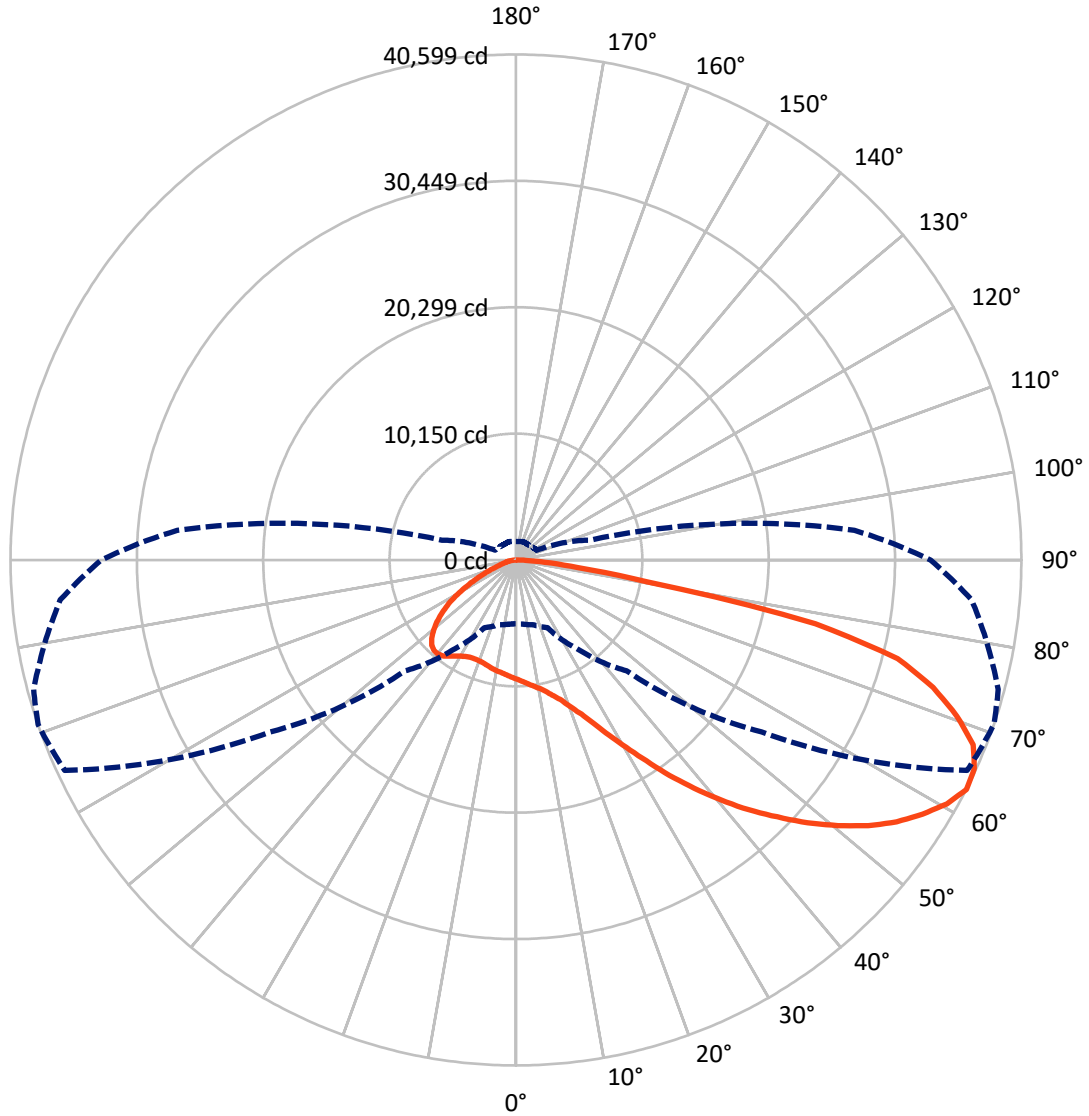
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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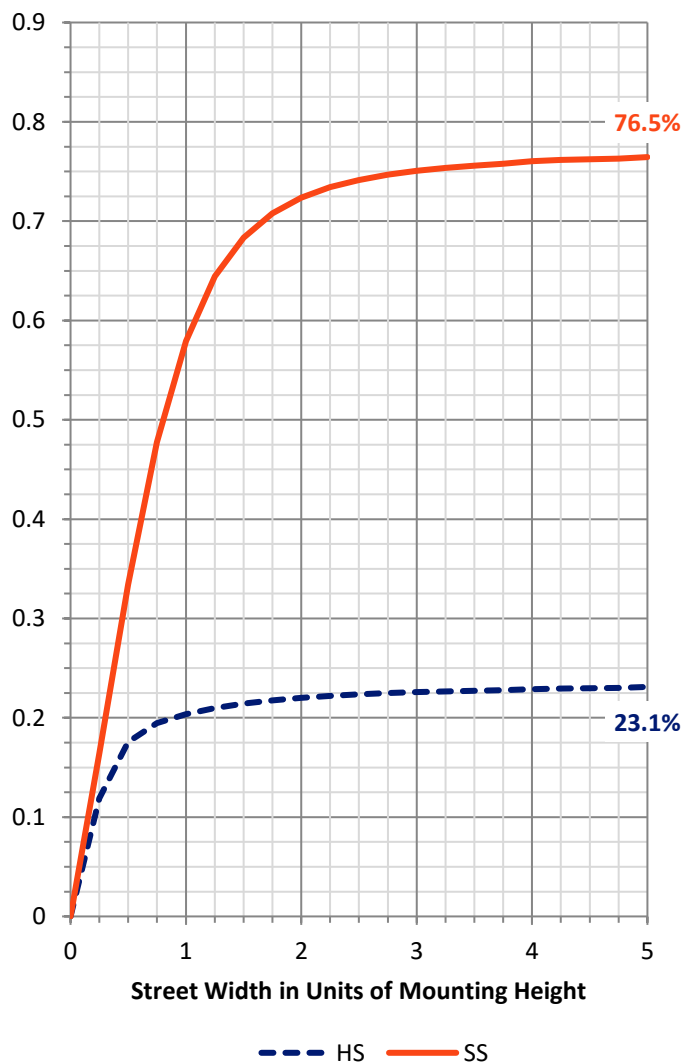
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13727.3	0.0	13727.3
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	44640.7	0.0	44640.7
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	58368.0	0.0	58368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	925.6	1.6
10°-20°	2836.9	4.9
20°-30°	4912.8	8.4
30°-40°	7313.2	12.5
40°-50°	9841.9	16.9
50°-60°	11646.7	20.0
60°-70°	11808.7	20.2
70°-80°	7882.2	13.5
80°-90°	1199.9	2.1
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°	58368.0	100.0
0°-180°	58368.0	100.0

**Coefficient of Utilization**

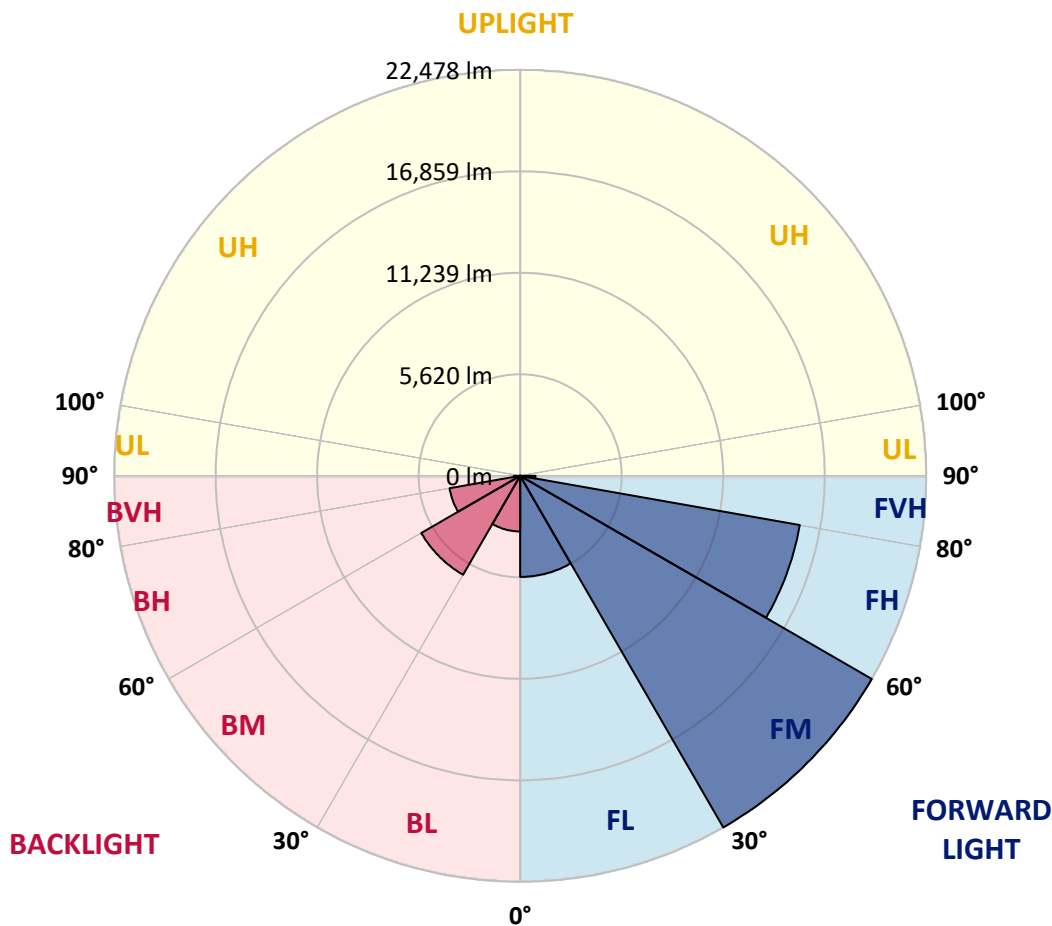


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5595.6	9.6			
FM (30°-60°)	22478.0	38.5			
FH (60°-80°)	15719.1	26.9			G5
FVH (80°-90°)	848.0	1.5			G5
BL (0°-30°)	3079.7	5.3	B4/5000		
BM (30°-60°)	6323.8	10.8	B4/8500		
BH (60°-80°)	3971.8	6.8	B4/5000		G4/5000
BVH (80°-90°)	352.0	0.6			G3/500
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°	71°	75°	85°
0°	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8
2.5°	10082.2	10061.3	10105.4	10082.2	10033.5	9948.9	9888.6	9837.6	9758.7	9725.1	9660.2
5°	10666.4	10675.7	10719.8	10618.9	10530.8	10377.8	10251.4	10119.3	9986.0	9902.5	9741.3
7.5°	11266.9	11287.8	11291.3	11199.7	11056.0	10872.8	10650.2	10447.3	10231.7	10127.4	9863.1
10°	11787.5	11803.7	11792.1	11742.2	11589.2	11345.8	11082.6	10775.4	10500.7	10350.0	9984.8
12.5°	12288.3	12321.9	12284.8	12199.0	12040.2	11799.1	11551.0	11178.8	10856.6	10652.5	10133.2
15°	12828.5	12811.1	12754.3	12633.7	12515.5	12317.2	12032.1	11694.7	11319.1	11047.8	10388.2
17.5°	13258.6	13298.0	13266.7	13155.4	13012.8	12819.2	12630.2	12273.2	11850.1	11595.0	10771.9
20°	13653.9	13682.9	13663.2	13608.7	13573.9	13449.9	13293.4	12994.3	12592.0	12258.1	11264.6
22.5°	13933.3	13977.3	14055.0	14118.8	14168.6	14141.9	14079.3	13906.6	13451.0	13160.0	11940.5
25°	14093.2	14137.3	14351.8	14584.8	14827.1	14969.7	15041.5	15018.3	14546.5	14272.9	12898.0
27.5°	14188.3	14242.8	14540.7	14968.5	15429.9	15793.9	16128.9	16237.9	15927.2	15661.7	14053.8
30°	14216.1	14275.3	14621.9	15203.8	15978.2	16672.6	17222.1	17667.3	17456.3	17112.0	15477.4
32.5°	14052.7	14113.0	14500.2	15322.1	16409.5	17530.5	18325.7	19153.5	19238.1	18920.4	17201.3
35°	13611.0	13693.3	14206.9	15283.8	16814.1	18387.2	19395.8	20722.0	21242.5	20974.7	18941.3
37.5°	13059.2	13095.1	13761.7	15046.2	17022.7	19074.6	20602.6	22613.9	23266.6	23046.3	20814.7
40°	12422.7	12450.6	13190.2	14631.1	17077.2	19646.2	21732.8	24421.2	25323.1	24940.5	22555.9
42.5°	11585.7	11756.2	12487.7	14102.5	16949.7	20070.4	22776.2	26570.5	27437.6	27158.2	24211.4
45°	10857.7	10908.7	11653.0	13272.5	16579.9	20397.4	23738.4	28442.7	29438.5	29146.4	26267.9
47.5°	10147.1	10147.1	10849.6	12332.3	15873.9	20521.4	24685.5	30384.5	31540.3	31202.9	28076.4
50°	8244.7	8615.7	10011.5	11528.9	14793.4	20302.3	25675.5	32417.8	33535.4	33202.7	29735.3
52.5°	6822.3	6865.2	8097.5	10632.8	13600.6	19614.9	26511.4	34606.5	35441.2	34939.2	31413.9
55°	6270.5	6289.0	6787.5	9297.3	12509.7	18449.8	26975.1	36448.6	37119.8	36556.4	32939.5
57.5°	5906.5	5950.5	6187.0	7478.5	11362.0	16665.7	27080.6	38170.1	38504.0	37876.8	34312.1
60°	5447.4	5481.0	5843.9	6558.0	10079.9	14387.7	26405.9	39472.0	39774.6	39179.9	35634.8
62.5°	5124.0	5155.3	5383.7	5994.6	8787.3	12581.6	24081.5	39993.7	40598.8	40101.5	36736.1
65°	4750.7	4795.9	5012.7	5558.7	7861.0	11295.9	22042.4	39288.8	40457.4	40315.9	37341.3
67.5°	4319.4	4353.1	4579.1	5044.0	6882.6	10312.9	19778.3	38120.3	39609.9	39661.0	36899.6
70°	3863.8	3875.4	4099.2	4469.0	5653.8	9117.7	16353.8	36168.1	37571.9	37563.8	34955.5
72.5°	3302.8	3343.3	3568.2	3911.4	4729.8	7646.5	12798.3	32730.8	35052.9	35197.8	31816.2
75°	2734.7	2770.7	2957.3	3280.7	3867.3	6192.8	9088.7	26262.1	31668.9	32065.4	27620.8
77.5°	1668.2	1737.7	1869.9	2230.4	2963.1	4865.5	5803.3	15625.8	24603.2	26081.3	21902.1
80°	738.5	1017.8	1322.7	1518.6	1801.5	3286.5	3160.2	7003.2	10683.8	14470.0	14015.6
82.5°	227.2	292.1	828.9	976.1	1075.8	1374.9	1465.3	3470.9	4933.9	5609.7	6358.6
85°	96.2	122.9	343.1	448.6	482.3	362.9	573.8	1560.4	2313.9	2626.9	2472.7
87.5°	25.5	29.0	92.7	129.8	133.3	115.9	149.5	525.1	774.4	903.1	782.5
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°	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8	9569.8
2.5°	9613.8	9547.7	9467.8	9356.5	9270.7	9191.9	9161.7	9074.8	9044.6	9052.7	9038.8
5°	9640.5	9533.8	9342.6	9147.8	8975.1	8836.0	8756.0	8652.8	8635.4	8634.2	8580.9
7.5°	9708.9	9548.9	9249.8	8971.6	8731.6	8540.3	8404.7	8287.6	8263.3	8261.0	8221.5
10°	9773.8	9555.9	9186.1	8834.8	8502.1	8242.4	8059.2	7924.8	7868.0	7836.7	7790.3
12.5°	9863.1	9575.6	9110.7	8678.3	8281.8	7945.6	7726.5	7545.7	7471.5	7405.4	7395.0
15°	10038.1	9660.2	9030.7	8466.2	8034.9	7614.1	7326.6	7151.5	7069.2	6985.8	6939.4
17.5°	10311.7	9826.0	8984.3	8259.8	7721.9	7257.0	6895.3	6714.5	6570.7	6501.2	6472.2
20°	10660.6	10083.3	8994.8	8062.7	7376.4	6864.0	6413.1	6198.6	6016.6	5978.4	5926.2
22.5°	11206.7	10467.1	9079.4	7891.2	7064.6	6424.7	5927.3	5595.8	5375.5	5343.1	5340.8
25°	11959.0	11017.7	9211.6	7717.3	6667.0	5954.0	5353.5	4939.7	4713.6	4631.3	4635.9
27.5°	12971.1	11826.9	9471.2	7560.8	6235.7	5312.9	4618.5	4237.1	4006.4	3933.4	3907.9
30°	14174.4	12787.9	9864.2	7393.8	5724.5	4535.1	3881.2	3556.6	3321.3	3247.1	3239.0
32.5°	15661.7	14016.7	10373.2	7181.7	5140.2	3769.9	3252.9	2958.5	2723.1	2564.3	2596.8
35°	17356.6	15412.5	10980.6	6981.1	4445.8	3189.2	2761.4	2402.0	2163.2	2075.1	2072.8
37.5°	18908.9	16683.1	11593.9	6742.3	3824.4	2775.3	2238.6	1975.4	1815.4	1735.4	1745.9
40°	20429.8	17986.1	12098.1	6371.3	3178.7	2310.4	1765.6	1672.8	1628.8	1589.4	1591.7
42.5°	21964.7	19249.7	12448.2	5827.7	2690.7	1871.1	1508.2	1576.6	1624.1	1611.4	1597.5
45°	23503.0	20500.5	12681.3	5064.9	2240.9	1562.7	1468.8	1581.2	1657.8	1671.7	1657.8
47.5°	25233.8	21695.7	12705.6	4059.8	1909.3	1516.3	1487.3	1553.4	1679.8	1713.4	1691.4
50°	26994.8	22835.3	12429.7	3091.8	1771.4	1553.4	1526.8	1518.6	1642.7	1678.6	1664.7
52.5°	28467.0	23828.8	11788.6	2446.1	1730.8	1601.0	1602.1	1519.8	1584.7	1627.6	1647.3
55°	29998.4	25040.2	10682.7	2141.2	1735.4	1621.8	1665.9	1555.7	1560.4	1548.8	1569.7
57.5°	31277.1	25934.0	9382.0	2033.4	1738.9	1642.7	1656.6	1578.9	1580.1	1517.5	1483.9
60°	32436.4	26816.2	7817.0	1933.7	1730.8	1646.2	1618.3	1603.3	1583.6	1527.9	1494.3
62.5°	33304.7	27305.5	6163.8	1854.8	1705.3	1626.5	1556.9	1576.6	1543.0	1487.3	1489.7
65°	33666.4	27172.1	4635.9	1758.6	1664.7	1601.0	1511.7	1502.4	1475.8	1416.6	1421.3
67.5°	32941.8	25808.8	3372.3	1612.5	1601.0	1559.2	1466.5	1429.4	1392.3	1351.7	1370.3
70°	30811.1	23259.6	2361.4	1399.2	1497.8	1492.0	1429.4	1387.6	1332.0	1269.4	1281.0
72.5°	27349.5	20086.7	1613.7	1160.4	1312.3	1396.9	1365.6	1326.2	1224.2	1057.3	1030.6
75°	22865.4	16033.9	1187.1	915.8	1063.1	1240.4	1205.6	1165.1	1147.7	1383.0	1378.4
77.5°	17754.2	10978.3	944.8	732.7	860.2	908.9	1046.8	1148.8	1729.6	1493.1	1439.8
80°	10836.9	6490.8	764.0	543.7	572.7	637.6	890.3	1415.5	1629.9	993.5	935.5
82.5°	5432.3	3160.2	601.7	368.6	396.5	358.2	638.8	1634.6	1150.0	568.0	529.8
85°	1954.5	1000.5	272.4	178.5	176.2	109.0	360.5	1272.9	739.6	425.5	399.9
87.5°	502.0	183.2	37.1	22.0	15.1	13.9	90.4	634.1	322.3	206.4	169.3
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)