

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: P622448

Luminaire Tested: **PRV-M-C225-D-U-T2-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622448  
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-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60534 lumens  
Efficiency: N/A  
Efficacy: 144.8 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

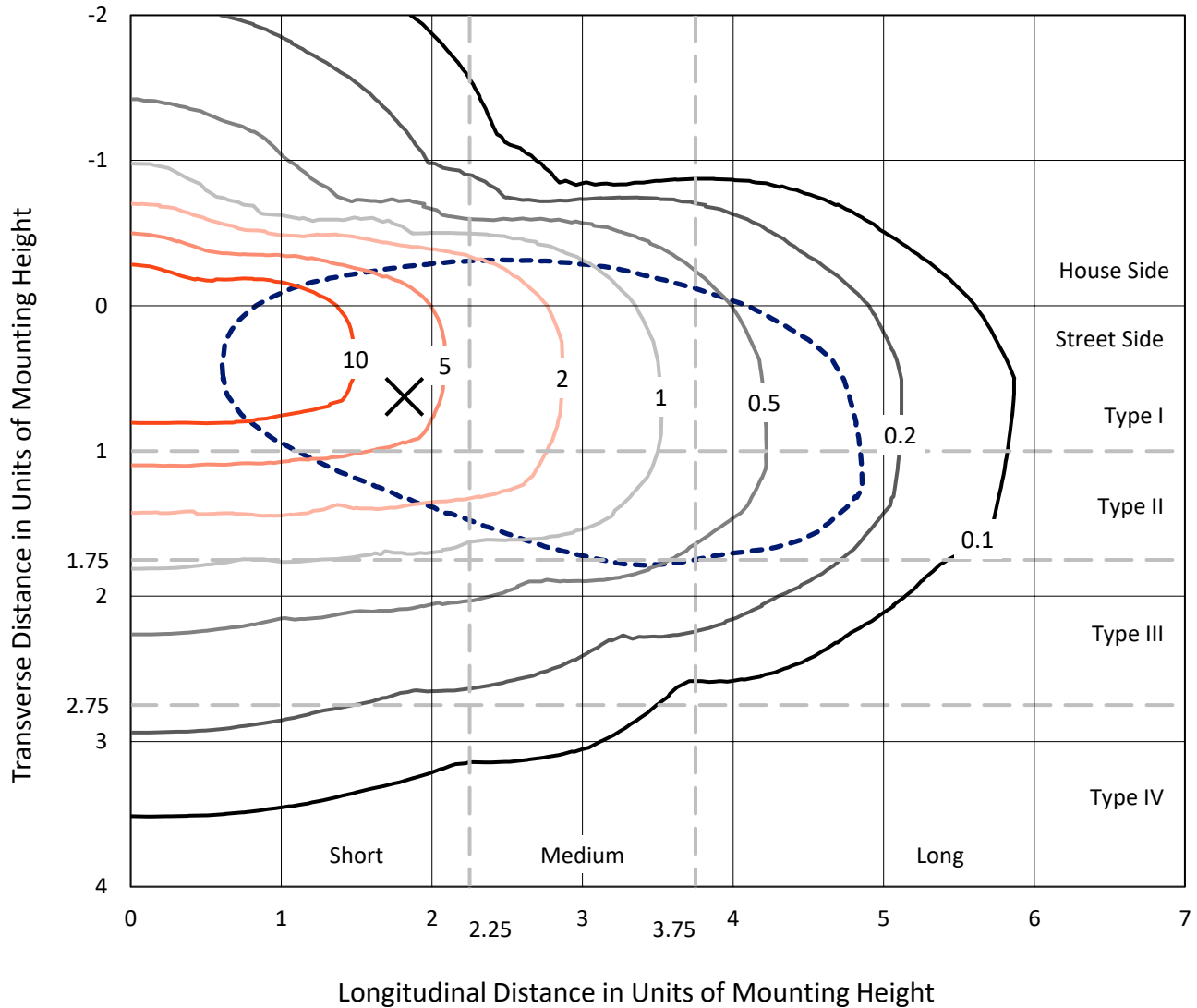
Input Watts (W): 418.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

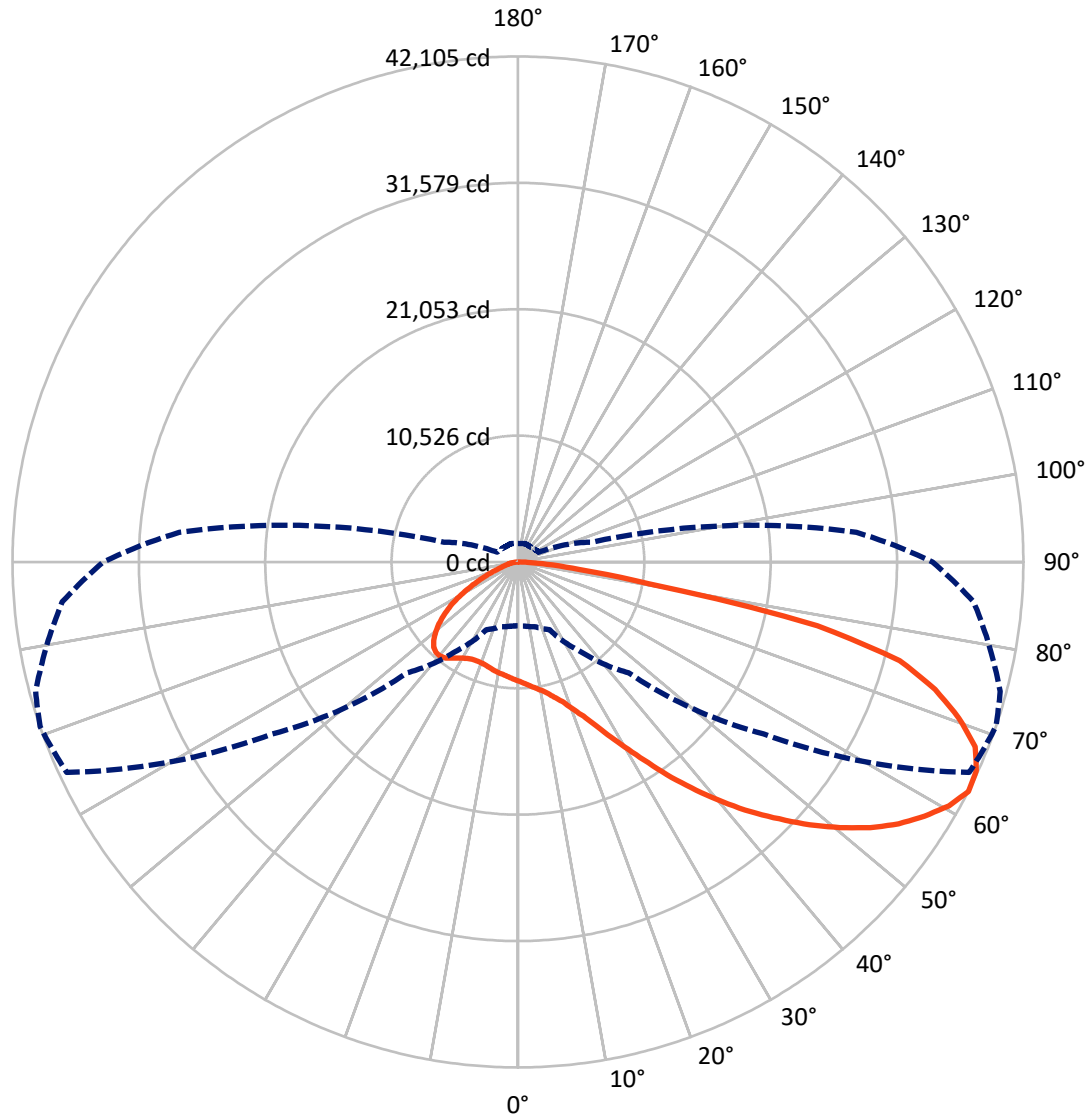
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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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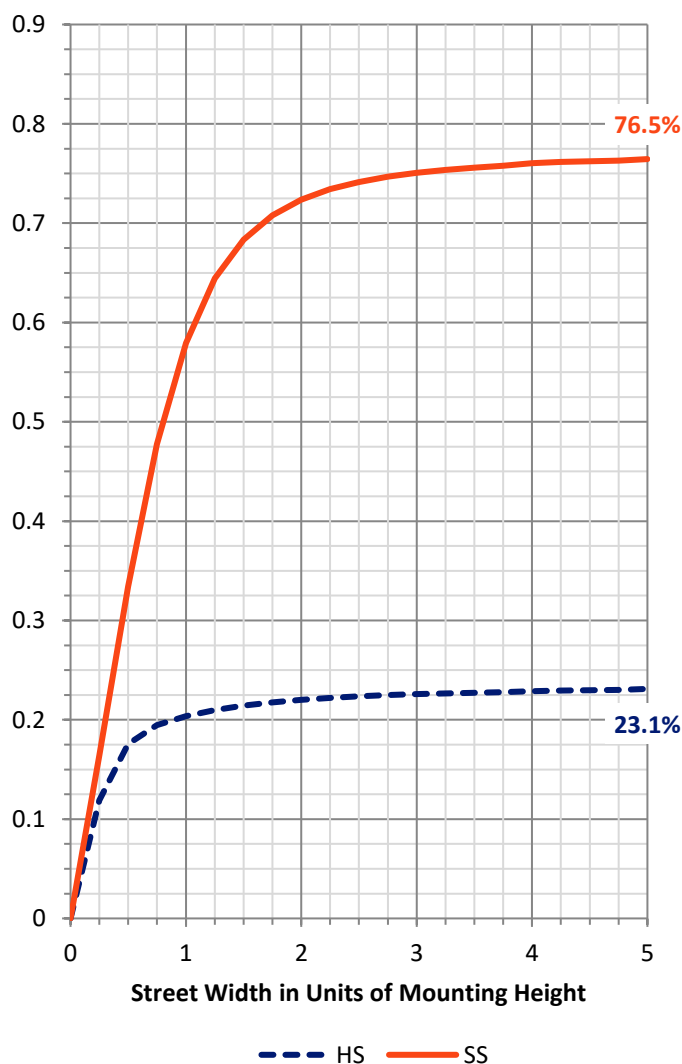
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14236.7	0.0	14236.7
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	46297.3	0.0	46297.3
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	60534.0	0.0	60534.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	959.9	1.6
10°-20°	2942.2	4.9
20°-30°	5095.1	8.4
30°-40°	7584.6	12.5
40°-50°	10207.1	16.9
50°-60°	12078.9	20.0
60°-70°	12246.9	20.2
70°-80°	8174.8	13.5
80°-90°	1244.5	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°	60534.0	100.0
0°-180°	60534.0	100.0

**Coefficient of Utilization**

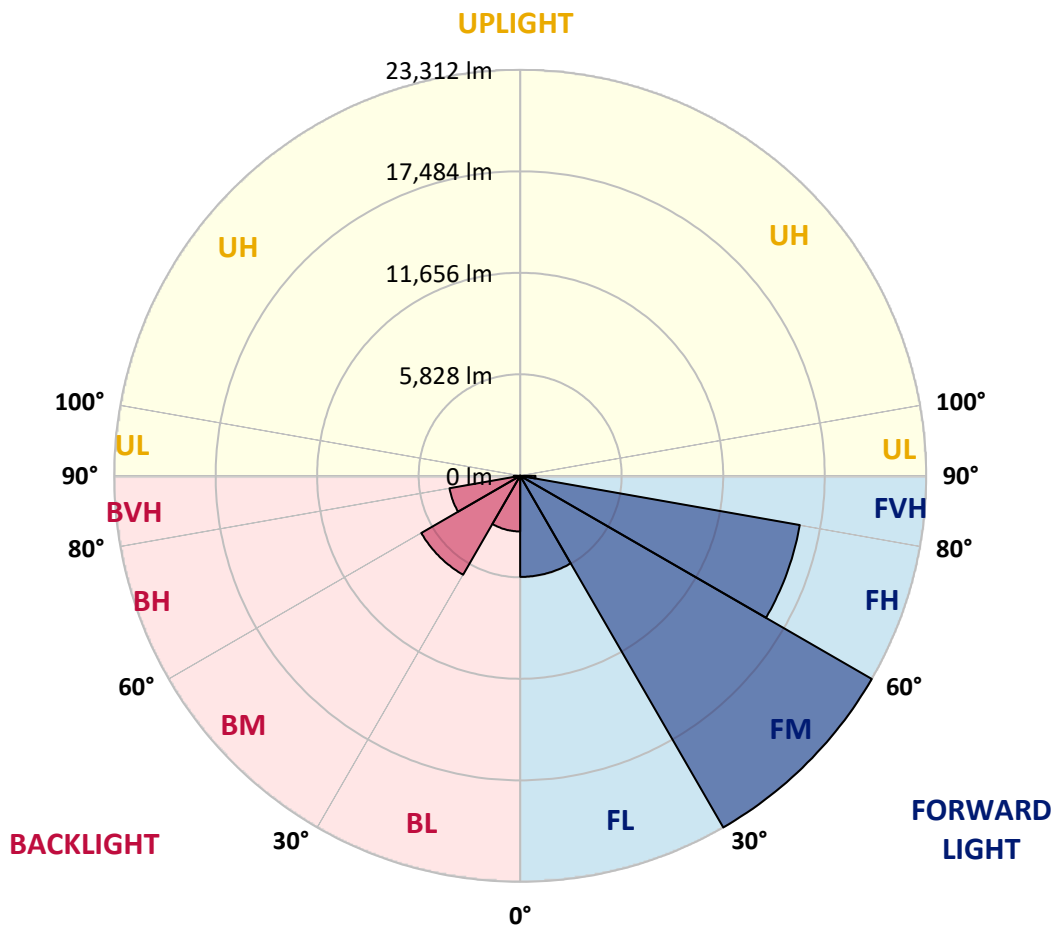


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5803.2	9.6			
FM (30°-60°)	23312.2	38.5			
FH (60°-80°)	16302.5	26.9			G5
FVH (80°-90°)	879.5	1.5			G5
BL (0°-30°)	3194.0	5.3	B4/5000		
BM (30°-60°)	6558.5	10.8	B4/8500		
BH (60°-80°)	4119.2	6.8	B4/5000		G4/5000
BVH (80°-90°)	365.0	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°	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9
2.5°	10456.3	10434.7	10480.4	10456.3	10405.8	10318.1	10255.5	10202.6	10120.9	10086.0	10018.7
5°	11062.3	11071.9	11117.6	11013.0	10921.6	10762.9	10631.9	10494.8	10356.5	10270.0	10102.8
7.5°	11685.1	11706.7	11710.3	11615.3	11466.2	11276.3	11045.4	10835.0	10611.4	10503.2	10229.1
10°	12224.9	12241.7	12229.7	12178.0	12019.3	11766.8	11493.9	11175.3	10890.3	10734.0	10355.3
12.5°	12744.3	12779.1	12740.7	12651.7	12487.0	12236.9	11979.6	11593.7	11259.4	11047.8	10509.2
15°	13304.5	13286.5	13227.6	13102.6	12979.9	12774.3	12478.6	12128.7	11739.2	11457.8	10773.7
17.5°	13750.6	13791.5	13759.0	13643.6	13495.7	13294.9	13099.0	12728.6	12289.8	12025.3	11171.7
20°	14160.6	14190.6	14170.2	14113.7	14077.6	13949.0	13786.7	13476.5	13059.3	12713.0	11682.7
22.5°	14450.3	14496.0	14576.6	14642.7	14694.4	14666.7	14601.8	14422.7	13950.2	13648.4	12383.6
25°	14616.2	14661.9	14884.4	15126.0	15377.3	15525.2	15599.7	15575.7	15086.3	14802.6	13376.7
27.5°	14714.8	14771.3	15080.3	15524.0	16002.5	16380.0	16727.5	16840.5	16518.3	16242.9	14575.4
30°	14743.7	14805.0	15164.5	15768.0	16571.2	17291.3	17861.2	18322.9	18104.1	17747.0	16051.8
32.5°	14574.2	14636.7	15038.2	15890.7	17018.4	18181.0	19005.8	19864.2	19952.0	19622.6	17839.6
35°	14116.1	14201.5	14734.1	15851.0	17438.0	19069.5	20115.5	21490.9	22030.8	21753.0	19644.2
37.5°	13543.8	13581.1	14272.4	15604.5	17654.4	19782.5	21367.1	23453.1	24130.0	23901.5	21587.1
40°	12883.7	12912.6	13679.7	15174.1	17710.9	20375.2	22539.3	25327.4	26262.8	25866.1	23393.0
42.5°	12015.7	12192.4	12951.1	14625.9	17578.7	20815.2	23621.4	27556.5	28455.8	28166.0	25109.8
45°	11260.6	11313.5	12085.4	13765.0	17195.2	21154.3	24619.3	29498.2	30531.0	30228.0	27242.7
47.5°	10523.6	10523.6	11252.2	12790.0	16463.0	21282.9	25601.6	31512.0	32710.7	32360.8	29118.3
50°	8550.7	8935.4	10383.0	11956.8	15342.4	21055.7	26628.3	33620.8	34779.8	34434.8	30838.7
52.5°	7075.5	7120.0	8398.0	11027.4	14105.3	20342.7	27495.2	35890.8	36756.4	36235.8	32579.7
55°	6503.2	6522.4	7039.4	9642.4	12973.9	19134.4	27976.1	37801.2	38497.3	37913.0	34161.9
57.5°	6125.7	6171.4	6416.6	7756.0	11783.6	17284.1	28085.5	39586.6	39932.9	39282.4	35585.4
60°	5649.6	5684.4	6060.7	6801.4	10453.9	14921.6	27385.8	40936.8	41250.6	40633.8	36957.2
62.5°	5314.1	5346.6	5583.4	6217.0	9113.4	13048.5	24975.2	41477.8	42105.4	41589.6	38099.4
65°	4927.0	4973.9	5198.7	5765.0	8152.7	11715.1	22860.3	40746.8	41958.7	41812.0	38727.0
67.5°	4479.7	4514.6	4749.0	5231.2	7138.0	10695.6	20512.3	39534.9	41079.8	41132.7	38268.9
70°	4007.2	4019.3	4251.3	4634.8	5863.6	9456.0	16960.7	37510.2	38966.2	38957.8	36252.7
72.5°	3425.3	3467.4	3700.6	4056.5	4905.3	7930.3	13273.3	33945.5	36353.6	36503.9	32996.9
75°	2836.2	2873.5	3067.0	3402.5	4010.8	6422.6	9426.0	27236.7	32844.2	33255.3	28645.8
77.5°	1730.1	1802.2	1939.3	2313.2	3073.1	5046.0	6018.7	16205.7	25516.2	27049.1	22714.9
80°	765.9	1055.6	1371.8	1575.0	1868.4	3408.5	3277.4	7263.0	11080.3	15007.0	14535.7
82.5°	235.6	303.0	859.6	1012.3	1115.7	1425.9	1519.7	3599.7	5116.9	5817.9	6594.6
85°	99.8	127.4	355.9	465.3	500.2	376.3	595.1	1618.3	2399.8	2724.4	2564.5
87.5°	26.5	30.1	96.2	134.7	138.3	120.2	155.1	544.6	803.1	936.6	811.5
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°	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9	9924.9
2.5°	9970.6	9902.1	9819.1	9703.7	9614.7	9533.0	9501.7	9411.5	9380.3	9388.7	9374.3
5°	9998.2	9887.6	9689.3	9487.3	9308.1	9163.9	9080.9	8973.9	8955.9	8954.7	8899.4
7.5°	10069.2	9903.3	9593.1	9304.5	9055.6	8857.3	8716.6	8595.2	8569.9	8567.5	8526.6
10°	10136.5	9910.5	9526.9	9162.7	8817.6	8548.3	8358.3	8218.9	8159.9	8127.5	8079.4
12.5°	10229.1	9930.9	9448.8	9000.3	8589.2	8240.5	8013.3	7825.7	7748.8	7680.2	7669.4
15°	10410.6	10018.7	9365.8	8780.3	8333.1	7896.6	7598.5	7416.9	7331.6	7245.0	7196.9
17.5°	10694.4	10190.6	9317.7	8566.3	8008.5	7526.3	7151.2	6963.7	6814.6	6742.4	6712.4
20°	11056.3	10457.5	9328.6	8361.9	7650.2	7118.8	6651.1	6428.6	6239.9	6200.2	6146.1
22.5°	11622.5	10855.5	9416.3	8184.0	7326.8	6663.1	6147.3	5803.5	5575.0	5541.4	5539.0
25°	12402.8	11426.6	9553.4	8003.6	6914.4	6175.0	5552.2	5123.0	4888.5	4803.1	4808.0
27.5°	13452.4	12265.8	9822.7	7841.3	6467.1	5510.1	4789.9	4394.4	4155.1	4079.4	4052.9
30°	14700.4	13262.5	10230.3	7668.2	5936.9	4703.4	4025.3	3688.6	3444.6	3367.6	3359.2
32.5°	16242.9	14536.9	10758.1	7448.2	5331.0	3909.8	3373.6	3068.2	2824.2	2659.5	2693.1
35°	18000.7	15984.4	11388.1	7240.2	4610.8	3307.5	2863.9	2491.1	2243.5	2152.1	2149.7
37.5°	19610.6	17302.2	12024.1	6992.5	3966.4	2878.3	2321.6	2048.7	1882.8	1799.8	1810.6
40°	21188.0	18653.5	12547.1	6607.8	3296.7	2396.2	1831.1	1734.9	1689.2	1648.3	1650.7
42.5°	22779.8	19964.0	12910.2	6043.9	2790.5	1940.5	1564.2	1635.1	1684.4	1671.2	1656.8
45°	24375.2	21261.3	13151.9	5252.8	2324.0	1620.7	1523.3	1639.9	1719.3	1733.7	1719.3
47.5°	26170.2	22500.9	13177.1	4210.4	1980.2	1572.6	1542.5	1611.1	1742.1	1777.0	1754.1
50°	27996.5	23682.7	12891.0	3206.5	1837.1	1611.1	1583.4	1575.0	1703.6	1740.9	1726.5
52.5°	29523.4	24713.1	12226.1	2536.8	1795.0	1660.4	1661.6	1576.2	1643.5	1688.0	1708.5
55°	31111.7	25969.5	11079.1	2220.6	1799.8	1682.0	1727.7	1613.5	1618.3	1606.3	1627.9
57.5°	32437.8	26896.4	9730.1	2108.8	1803.4	1703.6	1718.1	1637.5	1638.7	1573.8	1538.9
60°	33640.1	27811.4	8107.0	2005.4	1795.0	1707.3	1678.4	1662.8	1642.3	1584.6	1549.8
62.5°	34540.6	28318.7	6392.6	1923.7	1768.6	1686.8	1614.7	1635.1	1600.2	1542.5	1544.9
65°	34915.7	28180.5	4808.0	1823.9	1726.5	1660.4	1567.8	1558.2	1530.5	1469.2	1474.0
67.5°	34164.3	26766.6	3497.5	1672.4	1660.4	1617.1	1520.9	1482.4	1444.0	1401.9	1421.1
70°	31954.5	24122.7	2449.1	1451.2	1553.4	1547.3	1482.4	1439.1	1381.4	1316.5	1328.5
72.5°	28364.4	20832.1	1673.6	1203.5	1361.0	1448.8	1416.3	1375.4	1269.6	1096.5	1068.8
75°	23714.0	16628.9	1231.1	949.8	1102.5	1286.5	1250.4	1208.3	1190.3	1434.3	1429.5
77.5°	18413.1	11385.7	979.9	759.8	892.1	942.6	1085.7	1191.5	1793.8	1548.5	1493.2
80°	11239.0	6731.6	792.3	563.9	593.9	661.3	923.4	1468.0	1690.4	1030.4	970.2
82.5°	5633.9	3277.4	624.0	382.3	411.2	371.5	662.5	1695.2	1192.7	589.1	549.4
85°	2027.1	1037.6	282.5	185.2	182.7	113.0	373.9	1320.1	767.1	441.2	414.8
87.5°	520.6	190.0	38.5	22.8	15.6	14.4	93.8	657.7	334.2	214.0	175.5
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)