

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: P622446

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

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622446
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
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59444 lumens
Efficiency: N/A
Efficacy: 142.2 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

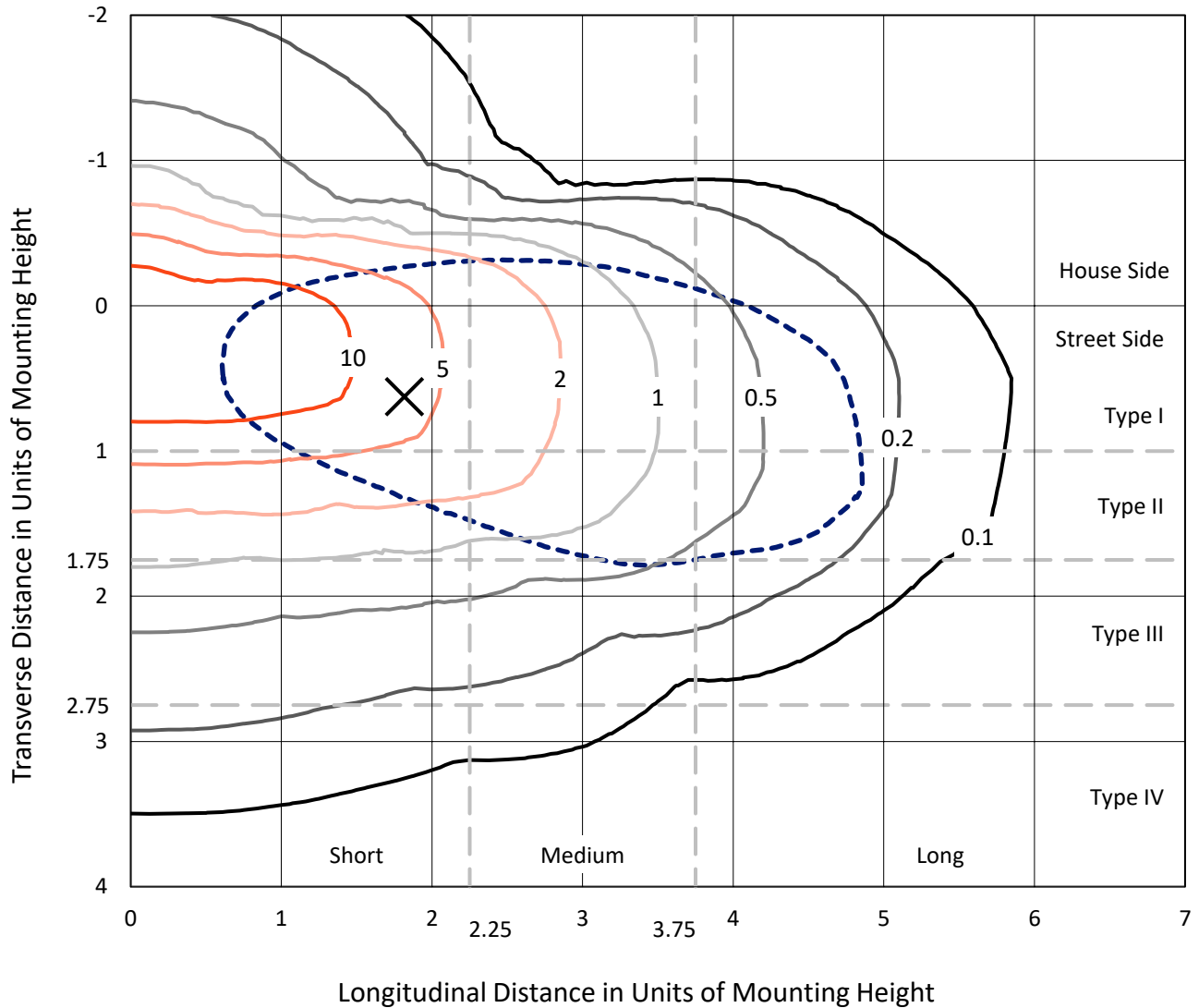
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

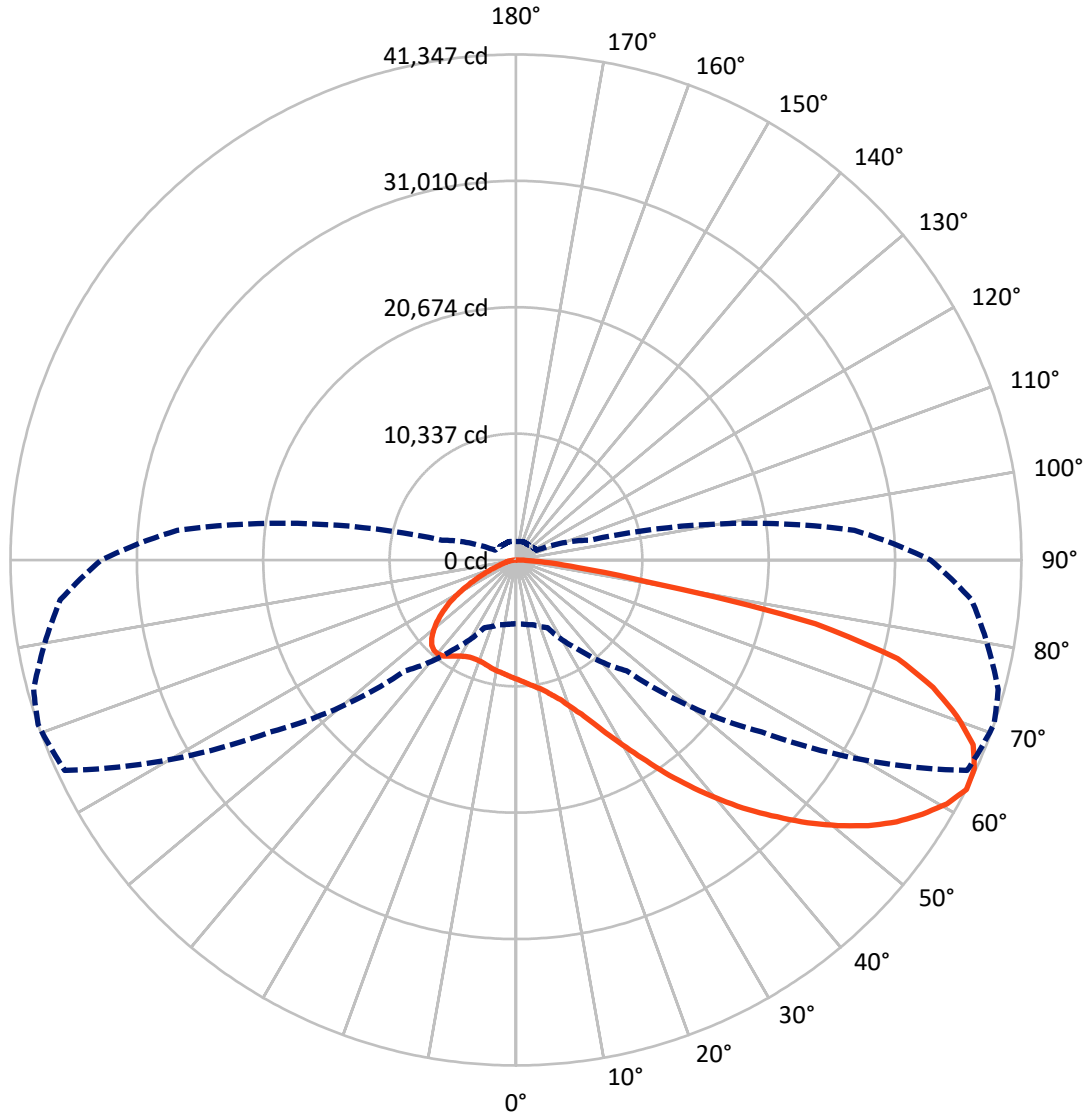
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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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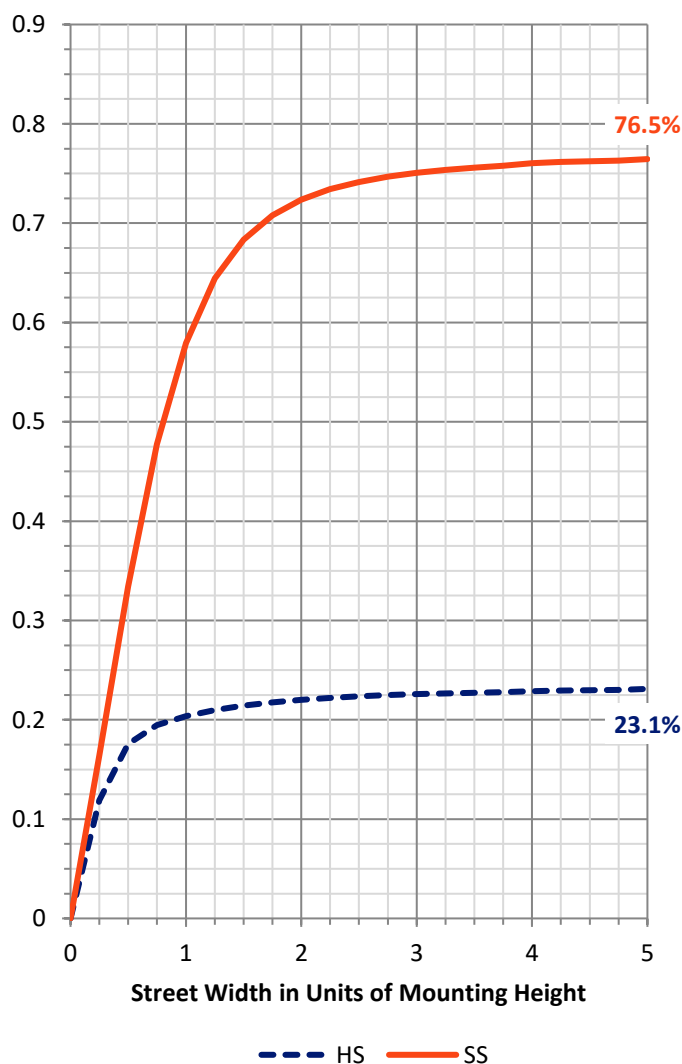
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13980.4	0.0	13980.4
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	45463.6	0.0	45463.6
	% Fixture	76.5	0.0	76.5
Total	Lumens	59444.0	0.0	59444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.7	1.6
10°-20°	2889.2	4.9
20°-30°	5003.4	8.4
30°-40°	7448.0	12.5
40°-50°	10023.3	16.9
50°-60°	11861.4	20.0
60°-70°	12026.3	20.2
70°-80°	8027.6	13.5
80°-90°	1222.1	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°	59444.0	100.0
0°-180°	59444.0	100.0

Coefficient of Utilization



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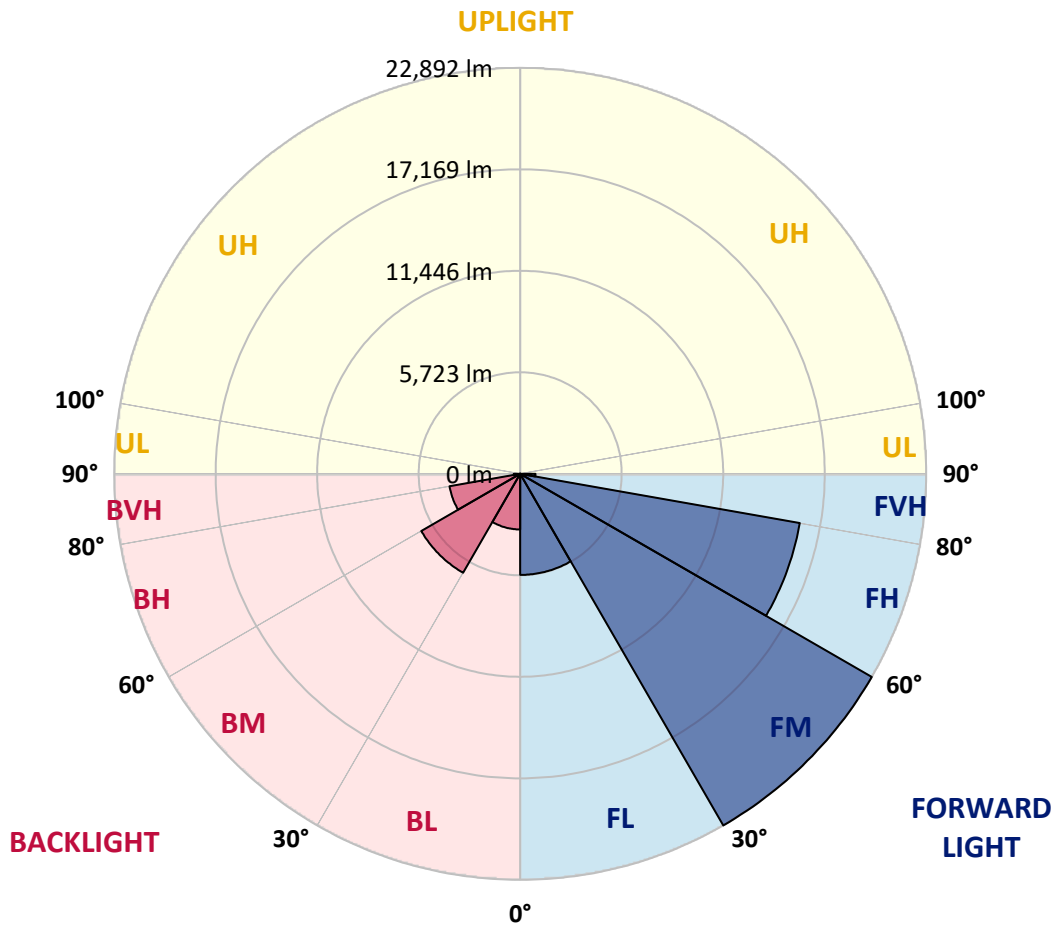
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5698.7	9.6			
FM (30°-60°)	22892.4	38.5			
FH (60°-80°)	16008.9	26.9			G5
FVH (80°-90°)	863.6	1.5			G5
BL (0°-30°)	3136.5	5.3	B4/5000		
BM (30°-60°)	6440.4	10.8	B4/8500		
BH (60°-80°)	4045.0	6.8	B4/5000		G4/5000
BVH (80°-90°)	358.5	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°	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2
2.5°	10268.0	10246.8	10291.6	10268.0	10218.4	10132.3	10070.9	10018.9	9938.6	9904.4	9838.3
5°	10863.1	10872.5	10917.4	10814.7	10724.9	10569.1	10440.4	10305.8	10170.0	10085.0	9920.9
7.5°	11474.7	11495.9	11499.4	11406.2	11259.8	11073.2	10846.6	10639.9	10420.3	10314.1	10044.9
10°	12004.8	12021.3	12009.5	11958.7	11802.9	11554.9	11286.9	10974.1	10694.2	10540.8	10168.9
12.5°	12514.8	12549.0	12511.3	12423.9	12262.1	12016.6	11763.9	11384.9	11056.7	10848.9	10320.0
15°	13065.0	13047.3	12989.4	12866.6	12746.2	12544.3	12253.9	11910.3	11527.8	11251.5	10579.7
17.5°	13503.0	13543.1	13511.3	13397.9	13252.7	13055.5	12863.1	12499.4	12068.5	11808.8	10970.5
20°	13905.6	13935.1	13915.0	13859.5	13824.1	13697.8	13538.4	13233.8	12824.1	12484.1	11472.3
22.5°	14190.1	14235.0	14314.1	14379.0	14429.8	14402.6	14338.9	14163.0	13699.0	13402.6	12160.6
25°	14353.1	14397.9	14616.3	14853.6	15100.4	15245.6	15318.8	15295.2	14814.7	14536.1	13135.8
27.5°	14449.9	14505.4	14808.8	15244.4	15714.3	16085.1	16426.3	16537.2	16220.8	15950.5	14312.9
30°	14478.2	14538.4	14891.4	15484.1	16272.8	16980.0	17539.6	17993.0	17778.1	17427.4	15762.7
32.5°	14311.7	14373.1	14767.5	15604.5	16712.0	17853.7	18663.6	19506.6	19592.7	19269.2	17518.4
35°	13861.9	13945.7	14468.8	15565.6	17124.0	18726.1	19753.3	21104.0	21634.1	21361.3	19290.5
37.5°	13299.9	13336.5	14015.4	15323.5	17336.5	19426.3	20982.4	23030.8	23695.5	23471.1	21198.4
40°	12651.8	12680.1	13433.3	14900.9	17392.0	20008.3	22133.5	24871.4	25789.9	25400.3	22971.7
42.5°	11799.3	11972.9	12717.9	14362.5	17262.2	20440.4	23196.1	27060.3	27943.4	27658.9	24657.7
45°	11057.9	11109.8	11867.8	13517.2	16885.5	20773.4	24176.0	28967.0	29981.2	29683.7	26752.1
47.5°	10334.2	10334.2	11049.6	12559.7	16166.5	20899.7	25140.6	30944.6	32121.7	31778.1	28593.9
50°	8396.7	8774.5	10196.0	11741.5	15066.2	20676.6	26148.8	33015.4	34153.6	33814.7	30283.4
52.5°	6948.1	6991.8	8246.8	10828.8	13851.3	19976.4	27000.1	35244.5	36094.6	35583.3	31993.0
55°	6386.1	6405.0	6912.7	9468.7	12740.3	18789.9	27472.3	37120.5	37804.1	37230.3	33546.7
57.5°	6015.4	6060.2	6301.1	7616.3	11571.5	16972.9	27579.8	38873.8	39213.8	38575.1	34944.6
60°	5547.8	5582.1	5951.6	6678.9	10265.7	14652.9	26892.6	40199.6	40507.8	39902.1	36291.7
62.5°	5218.4	5250.3	5482.9	6105.1	8949.3	12813.5	24525.5	40730.9	41347.2	40840.7	37413.3
65°	4838.3	4884.3	5105.1	5661.2	8005.9	11504.2	22448.7	40013.1	41203.2	41059.2	38029.6
67.5°	4399.1	4433.3	4663.5	5137.0	7009.5	10503.0	20142.9	38823.0	40340.1	40392.1	37579.8
70°	3935.1	3946.9	4174.7	4551.4	5758.0	9285.7	16655.3	36834.8	38264.6	38256.3	35599.9
72.5°	3363.6	3405.0	3634.0	3983.5	4817.0	7787.5	13034.3	33334.2	35699.0	35846.6	32402.7
75°	2785.1	2821.7	3011.8	3341.2	3938.6	6307.0	9256.2	26746.2	32252.8	32656.5	28130.0
77.5°	1698.9	1769.8	1904.4	2271.6	3017.7	4955.2	5910.3	15913.9	25056.7	26562.1	22305.9
80°	752.1	1036.6	1347.1	1546.6	1834.7	3347.1	3218.4	7132.3	10880.8	14736.8	14274.0
82.5°	231.4	297.5	844.2	994.1	1095.6	1400.2	1492.3	3534.8	5024.8	5713.1	6475.8
85°	98.0	125.1	349.5	456.9	491.1	369.5	584.4	1589.1	2356.6	2675.3	2518.3
87.5°	26.0	29.5	94.5	132.2	135.8	118.1	152.3	534.8	788.7	919.7	796.9
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°	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2	9746.2
2.5°	9791.1	9723.8	9642.3	9529.0	9441.6	9361.3	9330.6	9242.1	9211.4	9219.6	9205.5
5°	9818.2	9709.6	9514.8	9316.4	9140.5	8998.8	8917.4	8812.3	8794.6	8793.4	8739.1
7.5°	9887.9	9724.9	9420.3	9137.0	8892.6	8697.8	8559.6	8440.4	8415.6	8413.2	8373.1
10°	9954.0	9732.0	9355.4	8997.7	8658.8	8394.4	8207.8	8070.9	8013.0	7981.1	7933.9
12.5°	10044.9	9752.1	9278.7	8838.3	8434.5	8092.1	7869.0	7684.8	7609.2	7541.9	7531.3
15°	10223.2	9838.3	9197.2	8622.2	8183.0	7754.5	7461.7	7283.4	7199.5	7114.5	7067.3
17.5°	10501.8	10007.1	9150.0	8412.1	7864.3	7390.8	7022.5	6838.3	6691.9	6621.0	6591.5
20°	10857.2	10269.2	9160.6	8211.4	7512.4	6990.6	6531.3	6312.9	6127.5	6088.6	6035.4
22.5°	11413.3	10660.0	9246.8	8036.6	7194.8	6543.1	6036.6	5699.0	5474.6	5441.6	5439.2
25°	12179.5	11220.8	9381.4	7859.5	6789.9	6063.8	5452.2	5030.7	4800.5	4716.7	4721.4
27.5°	13210.2	12044.9	9645.8	7700.1	6350.7	5410.9	4703.7	4315.2	4080.3	4005.9	3979.9
30°	14435.7	13023.7	10046.1	7530.1	5830.0	4618.7	3952.8	3622.2	3382.5	3307.0	3298.7
32.5°	15950.5	14275.1	10564.4	7314.1	5235.0	3839.4	3312.9	3013.0	2773.3	2611.6	2644.6
35°	17676.6	15696.6	11183.0	7109.8	4527.8	3247.9	2812.3	2446.3	2203.1	2113.3	2111.0
37.5°	19257.4	16990.6	11807.6	6866.6	3894.9	2826.5	2279.8	2011.8	1848.9	1767.4	1778.0
40°	20806.4	18317.6	12321.2	6488.8	3237.3	2353.0	1798.1	1703.7	1658.8	1618.7	1621.0
42.5°	22369.6	19604.5	12677.7	5935.1	2740.3	1905.6	1536.0	1605.7	1654.1	1641.1	1626.9
45°	23936.3	20878.5	12915.0	5158.2	2282.2	1591.5	1495.9	1610.4	1688.3	1702.5	1688.3
47.5°	25699.0	22095.7	12939.8	4134.6	1944.5	1544.3	1514.8	1582.1	1710.7	1745.0	1722.6
50°	27492.4	23256.3	12658.8	3148.8	1804.0	1582.1	1554.9	1546.6	1673.0	1709.6	1695.4
52.5°	28991.8	24268.1	12005.9	2491.2	1762.7	1630.5	1631.6	1547.8	1613.9	1657.6	1677.7
55°	30551.5	25501.8	10879.6	2180.6	1767.4	1651.7	1696.6	1584.4	1589.1	1577.3	1598.6
57.5°	31853.7	26412.1	9554.9	2070.8	1771.0	1673.0	1687.1	1608.0	1609.2	1545.5	1511.2
60°	33034.3	27310.6	7961.1	1969.3	1762.7	1676.5	1648.2	1632.8	1612.8	1556.1	1521.8
62.5°	33918.6	27808.8	6277.5	1889.0	1736.7	1656.4	1585.6	1605.7	1571.4	1514.8	1517.1
65°	34287.0	27673.0	4721.4	1791.0	1695.4	1630.5	1539.6	1530.1	1503.0	1442.7	1447.5
67.5°	33549.1	26284.6	3434.5	1642.3	1630.5	1588.0	1493.5	1455.7	1417.9	1376.6	1395.5
70°	31379.1	23688.4	2405.0	1425.0	1525.4	1519.5	1455.7	1413.2	1356.6	1292.8	1304.6
72.5°	27853.7	20457.0	1643.5	1181.8	1336.5	1422.7	1390.8	1350.7	1246.8	1076.7	1049.6
75°	23287.0	16329.4	1209.0	932.7	1082.6	1263.3	1227.9	1186.5	1168.8	1408.5	1403.8
77.5°	18081.5	11180.7	962.2	746.2	876.0	925.6	1066.1	1170.0	1761.5	1520.7	1466.4
80°	11036.6	6610.4	778.0	553.7	583.2	649.4	906.7	1441.6	1660.0	1011.8	952.8
82.5°	5532.5	3218.4	612.8	375.4	403.8	364.8	650.5	1664.7	1171.2	578.5	539.6
85°	1990.6	1018.9	277.5	181.8	179.5	111.0	367.2	1296.3	753.2	433.3	407.3
87.5°	511.2	186.5	37.8	22.4	15.3	14.2	92.1	645.8	328.2	210.2	172.4
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)