

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: P622406

Luminaire Tested: **PRV-M-C200-D-U-T2-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622406  
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-C200-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: 51272 lumens  
Efficiency: N/A  
Efficacy: 148.2 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

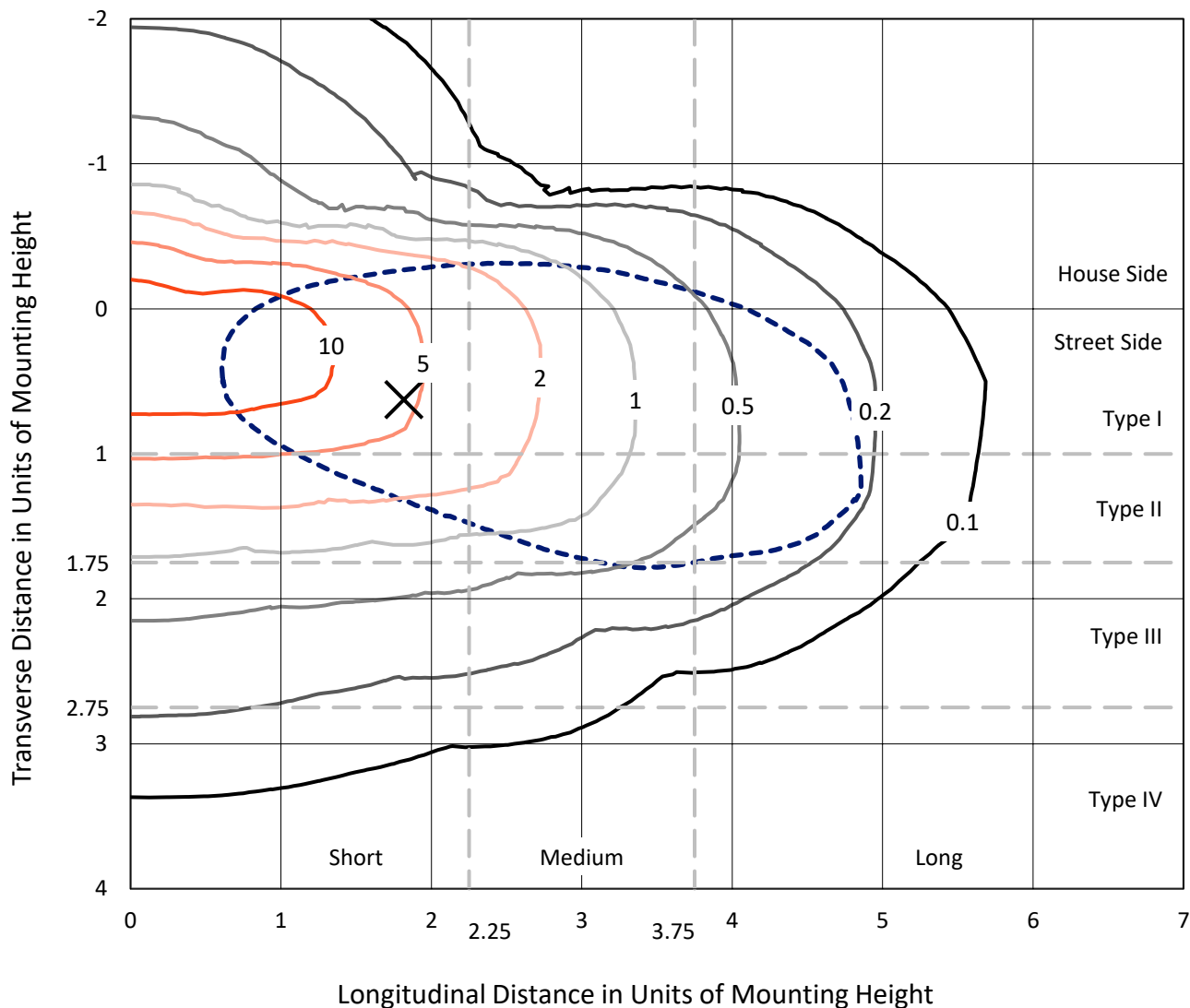
Input Watts (W): 346  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P622406  
 CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

### Iso-Footcandle Lines of Horizontal Illumination

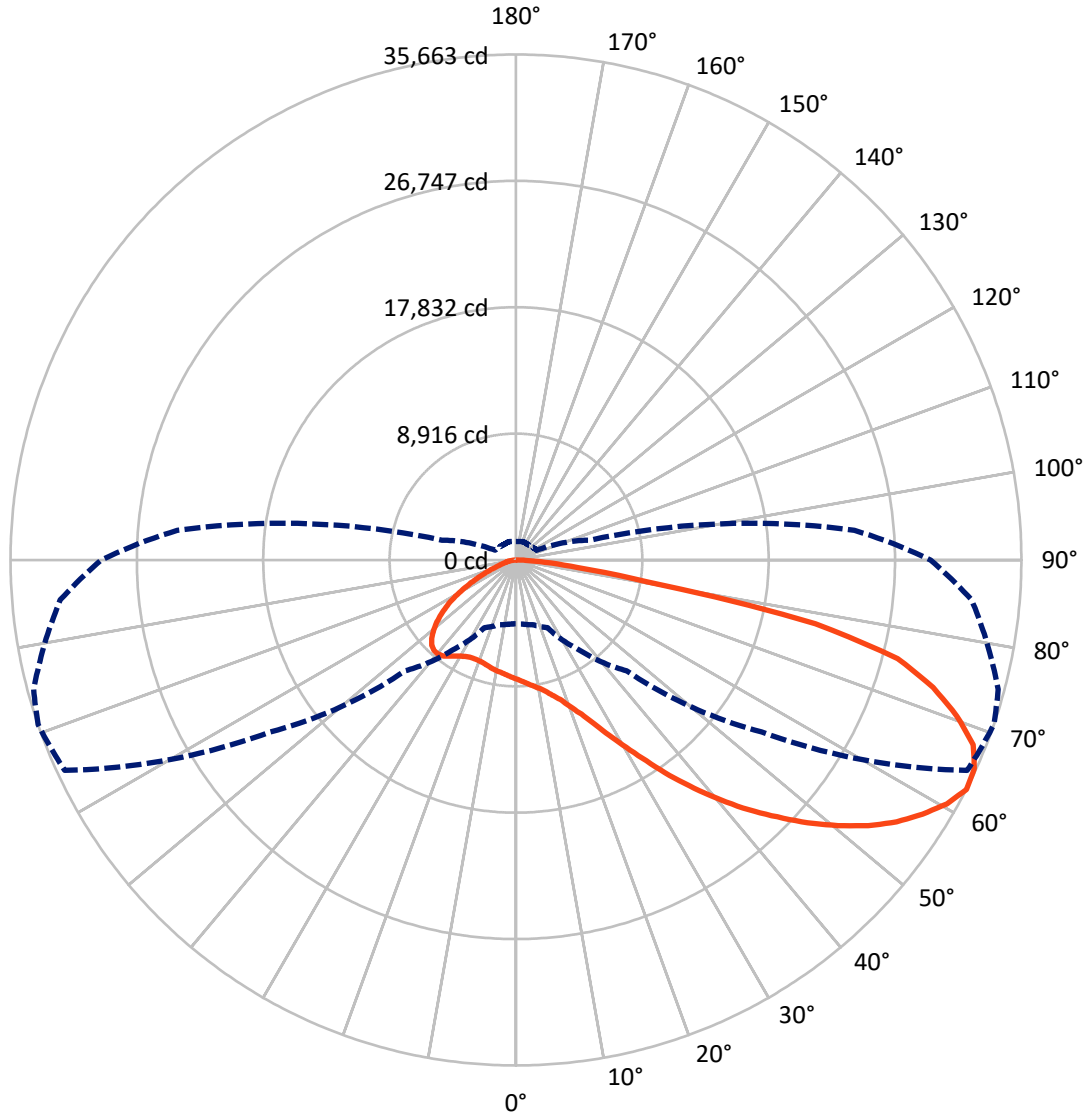
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P622406  
CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P622406  
 CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

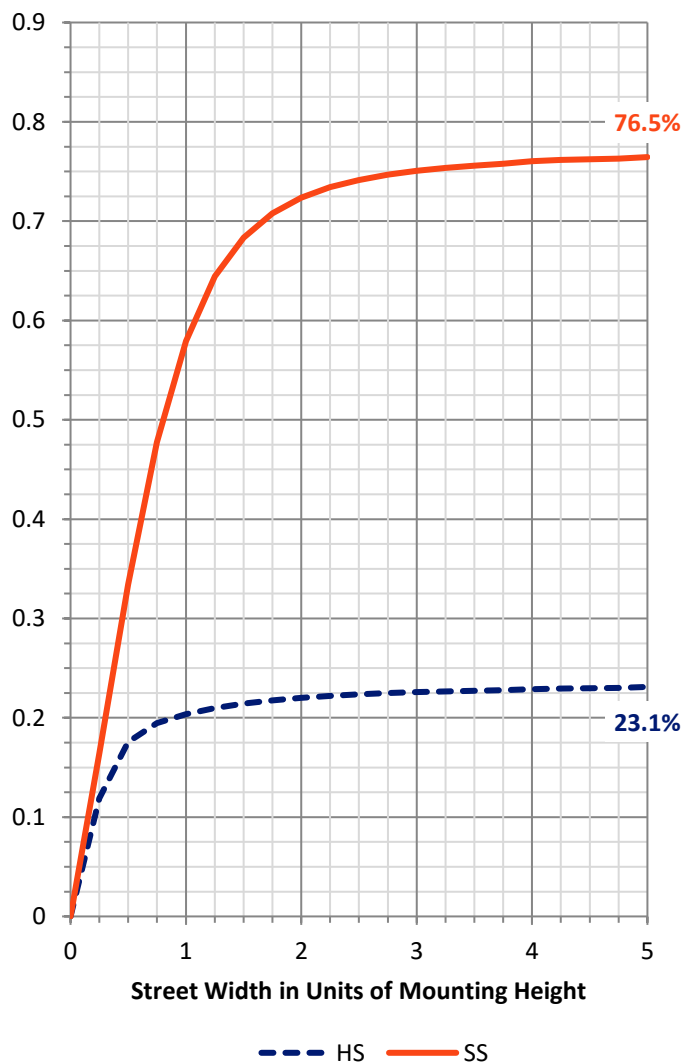
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12058.4	0.0	12058.4
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	39213.5	0.0	39213.5
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	51272.0	0.0	51272.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	813.1	1.6
10°-20°	2492.0	4.9
20°-30°	4315.5	8.4
30°-40°	6424.1	12.5
40°-50°	8645.4	16.9
50°-60°	10230.8	20.0
60°-70°	10373.0	20.2
70°-80°	6924.0	13.5
80°-90°	1054.1	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°	51272.0	100.0
0°-180°	51272.0	100.0



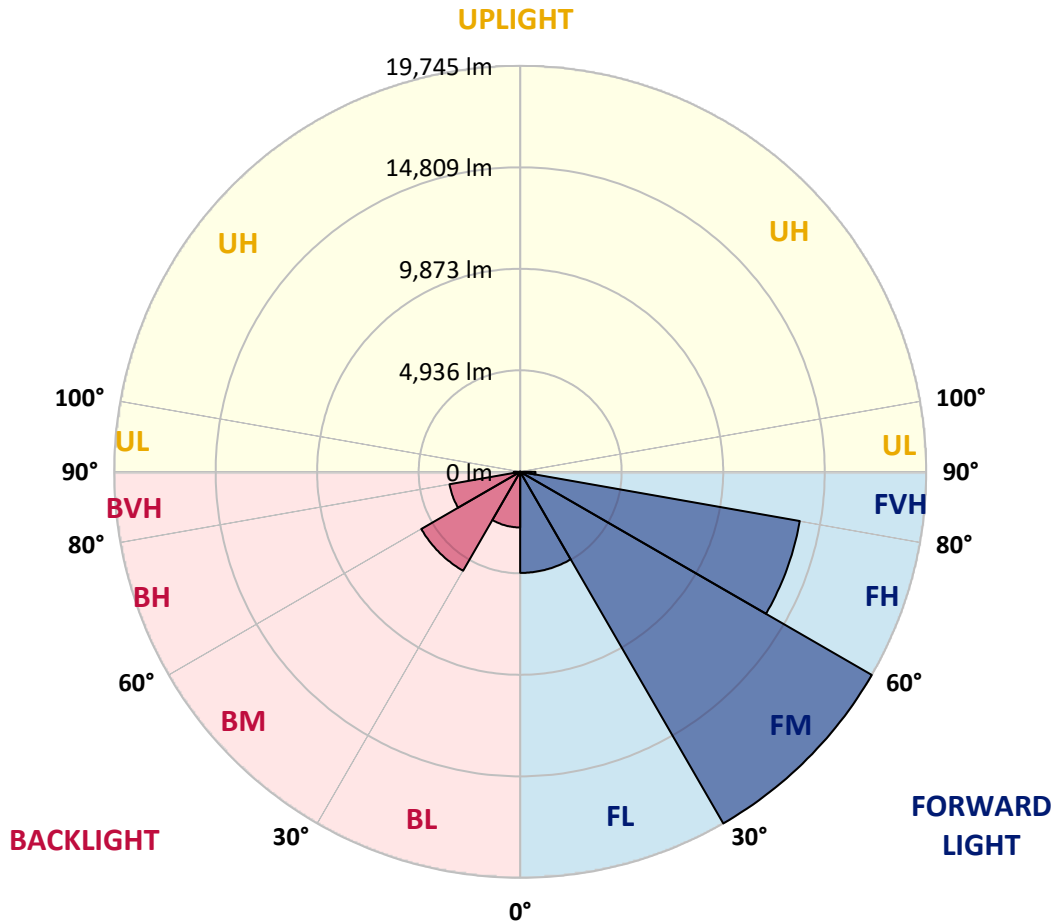
REPORT NUMBER: P622406  
 CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4915.3	9.6			
FM (30°-60°)	19745.3	38.5			
FH (60°-80°)	13808.1	26.9			G5
FVH (80°-90°)	744.9	1.5			G4/750
BL (0°-30°)	2705.3	5.3	B4/5000		
BM (30°-60°)	5555.0	10.8	B4/8500		
BH (60°-80°)	3488.9	6.8	B4/5000		G4/5000
BVH (80°-90°)	309.2	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





REPORT NUMBER: P622406

CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3
2.5°	8856.4	8838.1	8876.8	8856.4	8813.7	8739.3	8686.4	8641.6	8572.3	8542.8	8485.8
5°	9369.7	9377.8	9416.5	9327.9	9250.5	9116.1	9005.1	8889.0	8771.9	8698.6	8557.1
7.5°	9897.2	9915.5	9918.6	9838.1	9711.8	9551.0	9355.4	9177.2	8987.8	8896.2	8664.0
10°	10354.4	10368.7	10358.5	10314.7	10180.3	9966.4	9735.3	9465.4	9224.1	9091.7	8770.9
12.5°	10794.3	10823.9	10791.3	10715.9	10576.4	10364.6	10146.7	9819.8	9536.7	9357.5	8901.3
15°	11268.9	11253.6	11203.7	11097.8	10993.9	10819.8	10569.3	10273.0	9943.0	9704.7	9125.3
17.5°	11646.7	11681.3	11653.8	11556.1	11430.8	11260.7	11094.7	10781.1	10409.4	10185.4	9462.4
20°	11993.9	12019.4	12002.1	11954.2	11923.7	11814.7	11677.2	11414.5	11061.1	10767.9	9895.1
22.5°	12239.4	12278.1	12346.3	12402.3	12446.1	12422.7	12367.7	12215.9	11815.7	11560.1	10488.8
25°	12379.9	12418.6	12607.0	12811.7	13024.5	13149.7	13212.9	13192.5	12778.1	12537.7	11330.0
27.5°	12463.4	12511.2	12773.0	13148.7	13554.0	13873.8	14168.1	14263.8	13990.9	13757.7	12345.3
30°	12487.8	12539.8	12844.2	13355.4	14035.7	14645.7	15128.4	15519.4	15334.1	15031.6	13595.8
32.5°	12344.2	12397.2	12737.3	13459.3	14414.5	15399.2	16097.8	16824.9	16899.2	16620.2	15110.0
35°	11956.3	12028.6	12479.7	13425.7	14769.9	16151.8	17037.7	18202.7	18659.9	18424.7	16638.6
37.5°	11471.5	11503.1	12088.6	13217.0	14953.2	16755.7	18097.8	19864.6	20438.0	20244.5	18284.2
40°	10912.5	10936.9	11586.6	12852.4	15001.1	17257.7	19090.7	21452.2	22244.5	21908.4	19813.7
42.5°	10177.2	10326.9	10969.5	12388.0	14889.1	17630.4	20007.2	23340.2	24101.9	23856.5	21267.9
45°	9537.7	9582.5	10236.3	11658.9	14564.2	17917.6	20852.4	24984.8	25859.6	25602.9	23074.4
47.5°	8913.5	8913.5	9530.6	10833.0	13944.0	18026.5	21684.4	26690.5	27705.8	27409.5	24663.0
50°	7242.4	7568.3	8794.3	10127.3	12995.0	17834.1	22554.1	28476.7	29458.4	29166.1	26120.3
52.5°	5992.9	6030.6	7113.1	9340.2	11947.1	17230.2	23288.3	30399.3	31132.5	30691.6	27594.8
55°	5508.2	5524.5	5962.3	8167.0	10988.8	16206.8	23695.6	32017.4	32607.0	32112.1	28934.9
57.5°	5188.4	5227.1	5434.8	6569.3	9980.7	14639.6	23788.3	33529.7	33822.9	33272.0	30140.6
60°	4785.2	4814.7	5133.4	5760.7	8854.4	12638.5	23195.6	34673.2	34939.0	34416.6	31302.6
62.5°	4501.0	4528.5	4729.1	5265.8	7719.0	11052.0	21153.8	35131.5	35663.1	35226.2	32270.0
65°	4173.1	4212.8	4403.3	4882.9	6905.3	9922.6	19362.6	34512.3	35538.8	35414.6	32801.5
67.5°	3794.3	3823.8	4022.4	4430.8	6045.8	9059.1	17373.8	33485.9	34794.4	34839.2	32413.6
70°	3394.1	3404.3	3600.8	3925.7	4966.4	8009.2	14365.6	31771.0	33004.2	32997.1	30705.8
72.5°	2901.2	2936.9	3134.4	3435.9	4154.8	6716.9	11242.4	28751.6	30791.4	30918.6	27948.2
75°	2402.2	2433.8	2597.8	2881.9	3397.2	5439.9	7983.7	23069.3	27818.8	28167.1	24262.8
77.5°	1465.4	1526.5	1642.6	1959.3	2602.9	4273.9	5097.8	13726.1	21612.1	22910.5	19239.4
80°	648.7	894.1	1161.9	1334.0	1582.5	2887.0	2776.0	6151.8	9385.0	12710.8	12311.7
82.5°	199.6	256.6	728.1	857.4	945.0	1207.7	1287.2	3048.9	4334.0	4927.7	5585.6
85°	84.5	107.9	301.4	394.1	423.6	318.7	504.1	1370.7	2032.6	2307.5	2172.1
87.5°	22.4	25.5	81.5	114.1	117.1	101.8	131.4	461.3	680.2	793.3	687.4
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: P622406

CATALOG NUMBER: PRV-M-C200-D-U-T2-BZ-7050

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3	8406.3
2.5°	8445.0	8387.0	8316.7	8219.0	8143.6	8074.4	8047.9	7971.5	7945.0	7952.2	7939.9
5°	8468.5	8374.8	8206.8	8035.7	7883.9	7761.7	7691.5	7600.8	7585.6	7584.5	7537.7
7.5°	8528.5	8388.0	8125.3	7880.9	7670.1	7502.1	7382.9	7280.1	7258.7	7256.6	7222.0
10°	8585.6	8394.1	8069.3	7760.7	7468.5	7240.4	7079.5	6961.3	6911.4	6883.9	6843.2
12.5°	8664.0	8411.4	8003.1	7623.2	7275.0	6979.7	6787.2	6628.3	6563.2	6505.1	6496.0
15°	8817.8	8485.8	7932.8	7436.9	7058.1	6688.4	6435.9	6282.1	6209.8	6136.5	6095.7
17.5°	9058.1	8631.4	7892.1	7255.6	6783.1	6374.8	6057.0	5898.2	5771.9	5710.8	5685.4
20°	9364.6	8857.5	7901.3	7082.5	6479.7	6029.6	5633.4	5445.0	5285.2	5251.5	5205.7
22.5°	9844.2	9194.5	7975.6	6931.8	6205.7	5643.6	5206.7	4915.5	4722.0	4693.5	4691.5
25°	10505.1	9678.2	8091.7	6779.0	5856.4	5230.2	4702.7	4339.1	4140.5	4068.2	4072.3
27.5°	11394.1	10389.0	8319.8	6641.6	5477.6	4667.0	4057.0	3722.0	3519.4	3455.2	3432.8
30°	12451.2	11233.2	8665.0	6494.9	5028.5	3983.7	3409.4	3124.2	2917.5	2852.4	2845.2
32.5°	13757.7	12312.7	9112.1	6308.6	4515.3	3311.6	2857.4	2598.8	2392.1	2252.6	2281.1
35°	15246.5	13538.7	9645.7	6132.4	3905.3	2801.4	2425.7	2110.0	1900.2	1822.8	1820.8
37.5°	16610.0	14654.8	10184.4	5922.6	3359.5	2437.9	1966.4	1735.2	1594.7	1524.4	1533.6
40°	17946.1	15799.4	10627.3	5596.8	2792.3	2029.5	1550.9	1469.5	1430.8	1396.1	1398.2
42.5°	19294.4	16909.4	10934.9	5119.2	2363.6	1643.6	1324.9	1384.9	1426.7	1415.5	1403.3
45°	20645.7	18008.2	11139.6	4449.1	1968.4	1372.7	1290.2	1389.0	1456.2	1468.4	1456.2
47.5°	22166.1	19058.1	11160.9	3566.2	1677.2	1332.0	1306.5	1364.6	1475.6	1505.1	1485.7
50°	23712.9	20059.1	10918.6	2715.9	1556.0	1364.6	1341.1	1334.0	1443.0	1474.5	1462.3
52.5°	25006.2	20931.9	10355.4	2148.7	1520.4	1406.3	1407.3	1335.0	1392.1	1429.7	1447.1
55°	26351.4	21996.0	9383.9	1880.9	1524.4	1424.6	1463.3	1366.6	1370.7	1360.5	1378.8
57.5°	27474.6	22781.1	8241.4	1786.2	1527.5	1443.0	1455.2	1387.0	1388.0	1333.0	1303.5
60°	28493.0	23556.1	6866.6	1698.6	1520.4	1446.0	1421.6	1408.4	1391.0	1342.2	1312.6
62.5°	29255.7	23985.8	5414.5	1629.3	1498.0	1428.7	1367.6	1384.9	1355.4	1306.5	1308.6
65°	29573.4	23868.7	4072.3	1544.8	1462.3	1406.3	1327.9	1319.8	1296.3	1244.4	1248.5
67.5°	28937.0	22671.2	2962.3	1416.5	1406.3	1369.7	1288.2	1255.6	1223.0	1187.4	1203.7
70°	27065.3	20431.8	2074.3	1229.1	1315.7	1310.6	1255.6	1218.9	1170.1	1115.1	1125.3
72.5°	24024.5	17644.7	1417.5	1019.4	1152.8	1227.1	1199.6	1165.0	1075.4	928.7	905.3
75°	20085.6	14084.6	1042.8	804.5	933.8	1089.6	1059.1	1023.4	1008.2	1214.9	1210.8
77.5°	15595.8	9643.6	829.9	643.6	755.6	798.4	919.6	1009.2	1519.4	1311.6	1264.8
80°	9519.4	5701.7	671.1	477.6	503.1	560.1	782.1	1243.4	1431.8	872.7	821.8
82.5°	4771.9	2776.0	528.5	323.8	348.3	314.7	561.1	1435.9	1010.2	499.0	465.4
85°	1716.9	878.8	239.3	156.8	154.8	95.7	316.7	1118.1	649.7	373.7	351.3
87.5°	440.9	160.9	32.6	19.3	13.2	12.2	79.4	557.0	283.1	181.3	148.7
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)