

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: P622402

Luminaire Tested: **PRV-M-C200-D-U-T2-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622402
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-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: 49437 lumens
Efficiency: N/A
Efficacy: 142.9 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

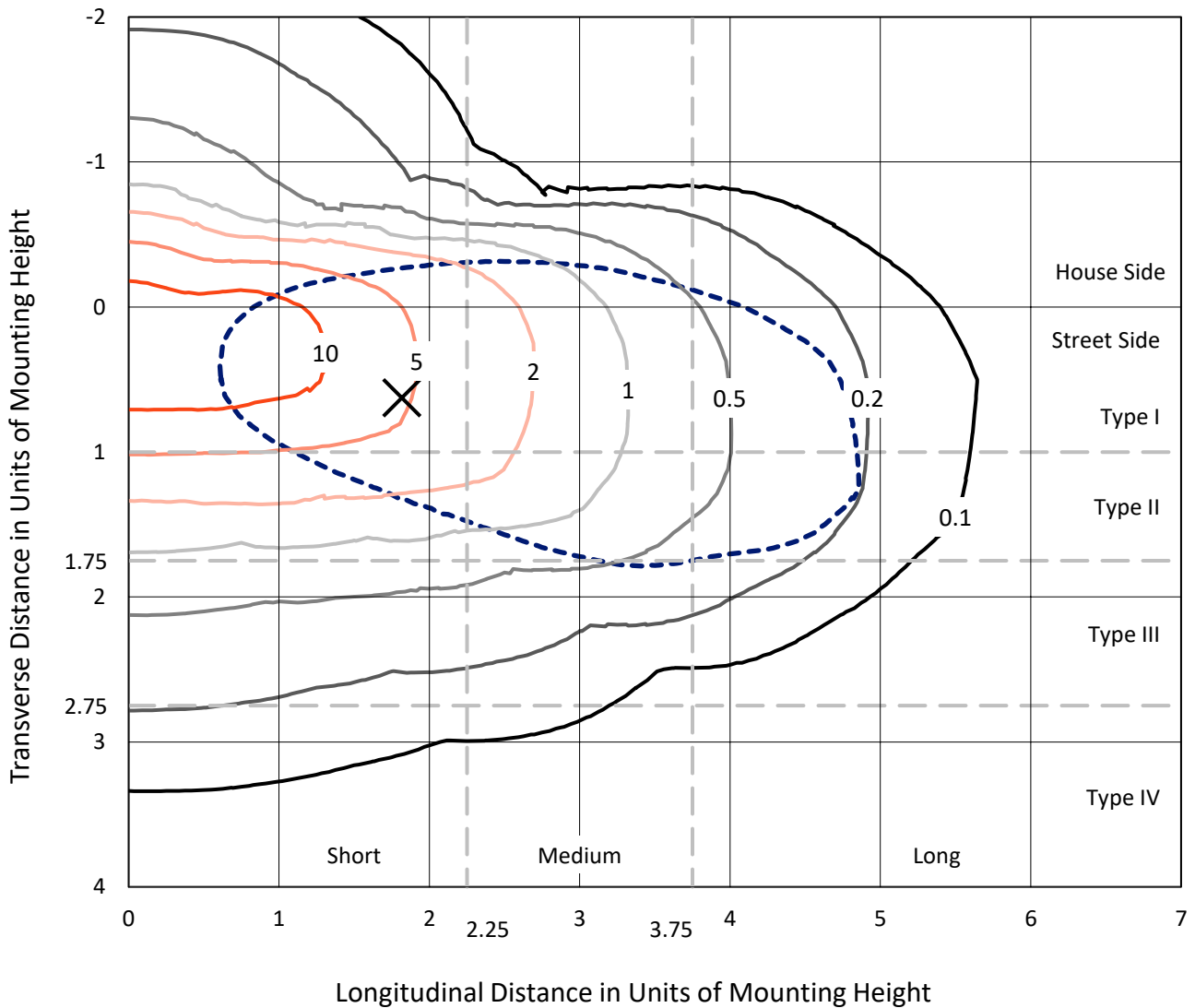
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

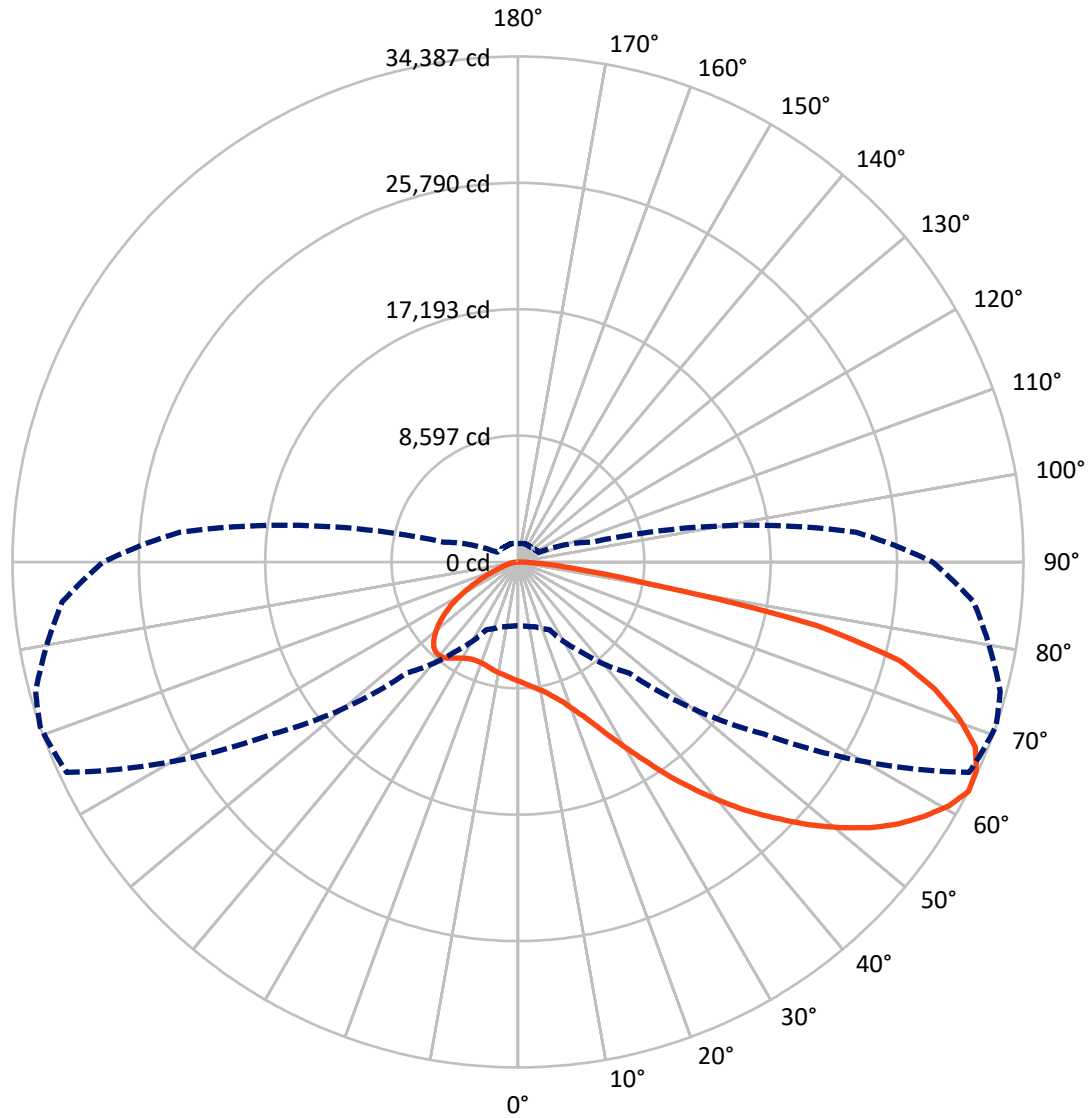
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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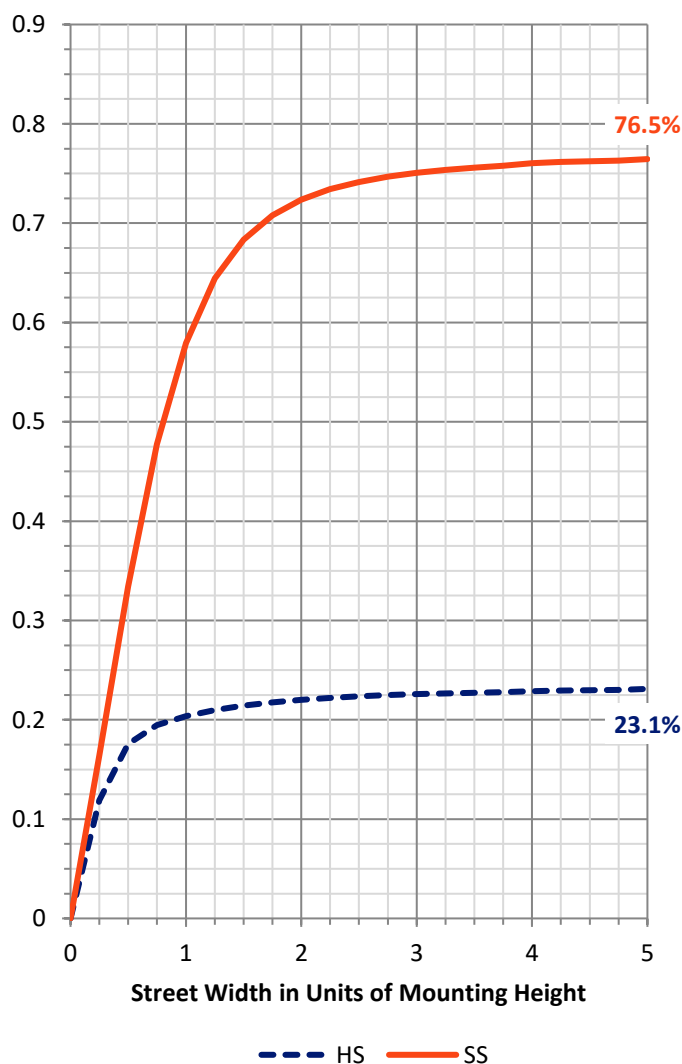
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11626.9	0.0	11626.9
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	37810.1	0.0	37810.1
	% Fixture	76.5	0.0	76.5
Total	Lumens	49437.0	0.0	49437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.0	1.6
10°-20°	2402.8	4.9
20°-30°	4161.1	8.4
30°-40°	6194.2	12.5
40°-50°	8336.0	16.9
50°-60°	9864.6	20.0
60°-70°	10001.8	20.2
70°-80°	6676.2	13.5
80°-90°	1016.3	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°	49437.0	100.0
0°-180°	49437.0	100.0

Coefficient of Utilization

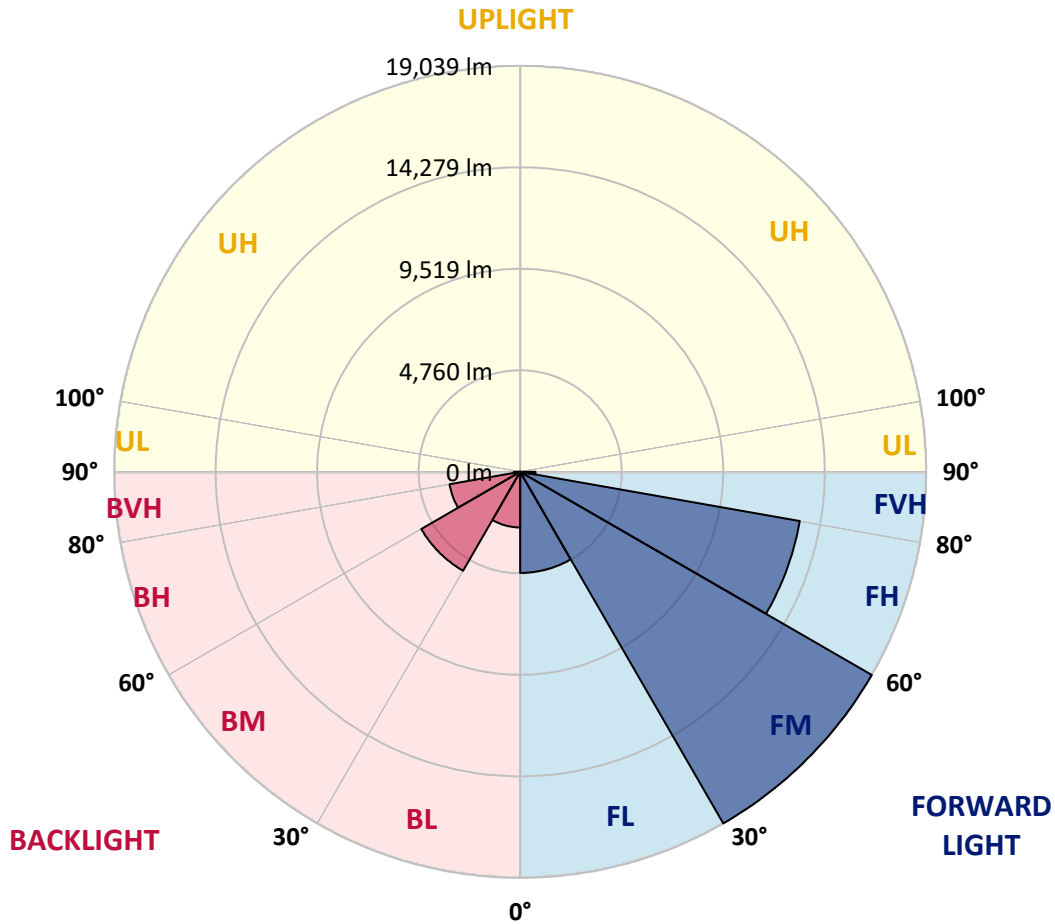


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4739.4	9.6			
FM (30°-60°)	19038.6	38.5			
FH (60°-80°)	13313.9	26.9			G5
FVH (80°-90°)	718.2	1.5			G4/750
BL (0°-30°)	2608.5	5.3	B4/5000		
BM (30°-60°)	5356.2	10.8	B4/8500		
BH (60°-80°)	3364.1	6.8	B4/5000		G4/5000
BVH (80°-90°)	298.1	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°	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5
2.5°	8539.5	8521.8	8559.1	8539.5	8498.2	8426.6	8375.5	8332.3	8265.5	8237.1	8182.1
5°	9034.4	9042.2	9079.5	8994.1	8919.5	8789.9	8682.8	8570.9	8458.0	8387.3	8250.8
7.5°	9543.0	9560.6	9563.6	9486.0	9364.3	9209.1	9020.6	8848.8	8666.1	8577.8	8353.9
10°	9983.8	9997.6	9987.8	9945.5	9815.9	9609.7	9386.9	9126.6	8893.9	8766.3	8457.0
12.5°	10408.0	10436.5	10405.1	10332.4	10197.9	9993.7	9783.5	9468.3	9195.4	9022.6	8582.7
15°	10865.6	10850.8	10802.7	10700.6	10600.5	10432.6	10191.0	9905.3	9587.2	9357.4	8798.7
17.5°	11229.9	11263.2	11236.7	11142.5	11021.7	10857.7	10697.7	10395.2	10036.9	9820.8	9123.7
20°	11564.7	11589.2	11572.5	11526.4	11496.9	11391.9	11259.3	11006.0	10665.3	10382.5	9541.0
22.5°	11801.3	11838.6	11904.4	11958.4	12000.6	11978.1	11925.0	11778.7	11392.8	11146.4	10113.4
25°	11936.8	11974.1	12155.8	12353.1	12558.3	12679.1	12740.0	12720.4	12320.7	12089.0	10924.5
27.5°	12017.3	12063.5	12315.8	12678.1	13068.9	13377.2	13661.0	13753.3	13490.2	13265.3	11903.4
30°	12040.9	12091.0	12384.6	12877.5	13533.4	14121.5	14586.9	14964.0	14785.3	14493.7	13109.2
32.5°	11902.4	11953.5	12281.5	12977.6	13898.6	14848.1	15521.7	16222.8	16294.4	16025.4	14569.3
35°	11528.3	11598.1	12033.0	12945.2	14241.3	15573.7	16428.0	17551.2	17992.1	17765.3	16043.1
37.5°	11061.0	11091.4	11656.0	12743.9	14418.0	16156.0	17450.1	19153.7	19706.5	19519.9	17629.8
40°	10521.9	10545.5	11171.9	12392.4	14464.2	16640.1	18407.5	20684.5	21448.4	21124.3	19104.6
42.5°	9813.0	9957.3	10576.9	11944.7	14356.2	16999.4	19291.2	22504.9	23239.3	23002.7	20506.7
45°	9196.4	9239.6	9869.9	11241.6	14043.0	17276.3	20106.1	24090.6	24934.1	24686.6	22248.6
47.5°	8594.5	8594.5	9189.5	10445.3	13445.0	17381.4	20908.3	25735.3	26714.2	26428.5	23780.3
50°	6983.2	7297.4	8479.6	9764.9	12529.9	17195.8	21746.9	27457.5	28404.1	28122.3	25185.4
52.5°	5778.4	5814.7	6858.5	9005.9	11519.5	16613.5	22454.8	29311.3	30018.3	29593.1	26607.2
55°	5311.0	5326.7	5749.0	7874.7	10595.6	15626.7	22847.6	30871.5	31440.1	30962.9	27899.4
57.5°	5002.7	5040.0	5240.3	6334.2	9623.5	14115.6	22936.9	32329.6	32612.4	32081.2	29061.9
60°	4613.9	4642.4	4949.7	5554.5	8537.5	12186.2	22365.4	33432.3	33688.6	33184.9	30182.3
62.5°	4339.9	4366.5	4559.9	5077.3	7442.7	10656.4	20396.8	33874.2	34386.7	33965.5	31115.1
65°	4023.8	4062.1	4245.7	4708.2	6658.2	9567.5	18669.6	33277.2	34266.9	34147.1	31627.6
67.5°	3658.5	3687.0	3878.5	4272.2	5829.5	8734.9	16752.0	32287.4	33549.2	33592.4	31253.5
70°	3272.6	3282.5	3472.0	3785.2	4788.7	7722.5	13851.5	30633.9	31823.0	31816.1	29606.9
72.5°	2797.4	2831.8	3022.3	3312.9	4006.1	6476.5	10840.0	27722.6	29689.4	29812.1	26947.9
75°	2316.3	2346.7	2504.8	2778.7	3275.6	5245.2	7698.0	22243.7	26823.2	27159.0	23394.5
77.5°	1412.9	1471.9	1583.8	1889.2	2509.7	4121.0	4915.3	13234.9	20838.6	22090.5	18550.8
80°	625.5	862.1	1120.3	1286.3	1525.9	2783.7	2676.6	5931.6	9049.1	12255.9	11871.0
82.5°	192.5	247.4	702.0	826.7	911.2	1164.5	1241.1	2939.8	4178.9	4751.4	5385.7
85°	81.5	104.1	290.6	380.0	408.5	307.3	486.0	1321.6	1959.8	2225.0	2094.4
87.5°	21.6	24.5	78.6	110.0	112.9	98.2	126.7	444.8	655.9	764.9	662.8
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°	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5	8105.5
2.5°	8142.8	8086.8	8019.1	7924.8	7852.2	7785.4	7759.9	7686.2	7660.7	7667.6	7655.8
5°	8165.4	8075.0	7913.0	7748.1	7601.8	7484.0	7416.2	7328.8	7314.1	7313.1	7267.9
7.5°	8223.3	8087.8	7834.5	7598.8	7395.6	7233.6	7118.7	7019.5	6998.9	6996.9	6963.6
10°	8278.3	8093.7	7780.5	7483.0	7201.2	6981.2	6826.1	6712.2	6664.1	6637.6	6598.3
12.5°	8353.9	8110.4	7716.7	7350.4	7014.6	6729.9	6544.3	6391.1	6328.3	6272.3	6263.5
15°	8502.2	8182.1	7648.9	7170.7	6805.5	6449.0	6205.5	6057.3	5987.6	5916.9	5877.6
17.5°	8733.9	8322.5	7609.6	6996.0	6540.4	6146.6	5840.3	5687.1	5565.3	5506.4	5481.9
20°	9029.4	8540.5	7618.5	6829.0	6247.8	5813.8	5431.8	5250.2	5096.0	5063.6	5019.4
22.5°	9491.9	8865.5	7690.1	6683.7	5983.6	5441.6	5020.4	4739.6	4553.0	4525.5	4523.6
25°	10129.2	9331.9	7802.1	6536.4	5646.8	5043.0	4534.4	4183.8	3992.4	3922.6	3926.6
27.5°	10986.3	10017.2	8022.0	6403.9	5281.6	4500.0	3911.8	3588.8	3393.4	3331.5	3309.9
30°	12005.5	10831.2	8354.9	6262.5	4848.6	3841.1	3287.4	3012.4	2813.1	2750.3	2743.4
32.5°	13265.3	11872.0	8785.9	6082.8	4353.7	3193.1	2755.2	2505.8	2306.5	2171.9	2199.4
35°	14700.8	13054.2	9300.4	5912.9	3765.5	2701.2	2338.9	2034.5	1832.2	1757.6	1755.6
37.5°	16015.6	14130.4	9819.9	5710.7	3239.2	2350.6	1896.0	1673.1	1537.6	1469.9	1478.7
40°	17303.8	15234.0	10247.0	5396.5	2692.3	1956.9	1495.4	1416.9	1379.6	1346.2	1348.1
42.5°	18603.8	16304.3	10543.5	4936.0	2279.0	1584.8	1277.4	1335.4	1375.6	1364.8	1353.0
45°	19906.8	17363.7	10740.9	4289.9	1898.0	1323.6	1244.1	1339.3	1404.1	1415.9	1404.1
47.5°	21372.8	18376.0	10761.5	3438.6	1617.2	1284.3	1259.8	1315.7	1422.8	1451.2	1432.6
50°	22864.2	19341.2	10527.8	2618.7	1500.3	1315.7	1293.1	1286.3	1391.3	1421.8	1410.0
52.5°	24111.2	20182.7	9984.8	2071.8	1466.0	1356.0	1357.0	1287.3	1342.2	1378.6	1395.3
55°	25408.3	21208.8	9048.1	1813.5	1469.9	1373.7	1411.0	1317.7	1321.6	1311.8	1329.5
57.5°	26491.3	21965.8	7946.4	1722.2	1472.8	1391.3	1403.1	1337.3	1338.3	1285.3	1256.8
60°	27473.2	22713.0	6620.9	1637.8	1466.0	1394.3	1370.7	1358.0	1341.3	1294.1	1265.7
62.5°	28208.7	23127.4	5220.7	1571.0	1444.4	1377.6	1318.7	1335.4	1306.9	1259.8	1261.7
65°	28515.0	23014.5	3926.6	1489.5	1410.0	1356.0	1280.4	1272.5	1249.9	1199.9	1203.8
67.5°	27901.3	21859.8	2856.3	1365.8	1356.0	1320.6	1242.1	1210.7	1179.2	1144.9	1160.6
70°	26096.6	19700.6	2000.1	1185.1	1268.6	1263.7	1210.7	1175.3	1128.2	1075.2	1085.0
72.5°	23164.7	17013.2	1366.8	982.9	1111.5	1183.2	1156.7	1123.3	1036.9	895.5	872.9
75°	19366.8	13580.5	1005.5	775.7	900.4	1050.6	1021.2	986.8	972.1	1171.4	1167.5
77.5°	15037.6	9298.5	800.2	620.6	728.6	769.8	886.6	973.1	1465.0	1264.7	1219.5
80°	9178.7	5497.6	647.1	460.5	485.1	540.0	754.1	1198.9	1380.5	841.5	792.4
82.5°	4601.1	2676.6	509.6	312.2	335.8	303.4	541.0	1384.5	974.0	481.1	448.7
85°	1655.5	847.4	230.7	151.2	149.2	92.3	305.4	1078.1	626.4	360.4	338.8
87.5°	425.2	155.1	31.4	18.7	12.8	11.8	76.6	537.1	273.0	174.8	143.4
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)