

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: P622456

Luminaire Tested: **PRV-M-C225-D-U-T3-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)
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-T3-BZ-7030
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58151 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

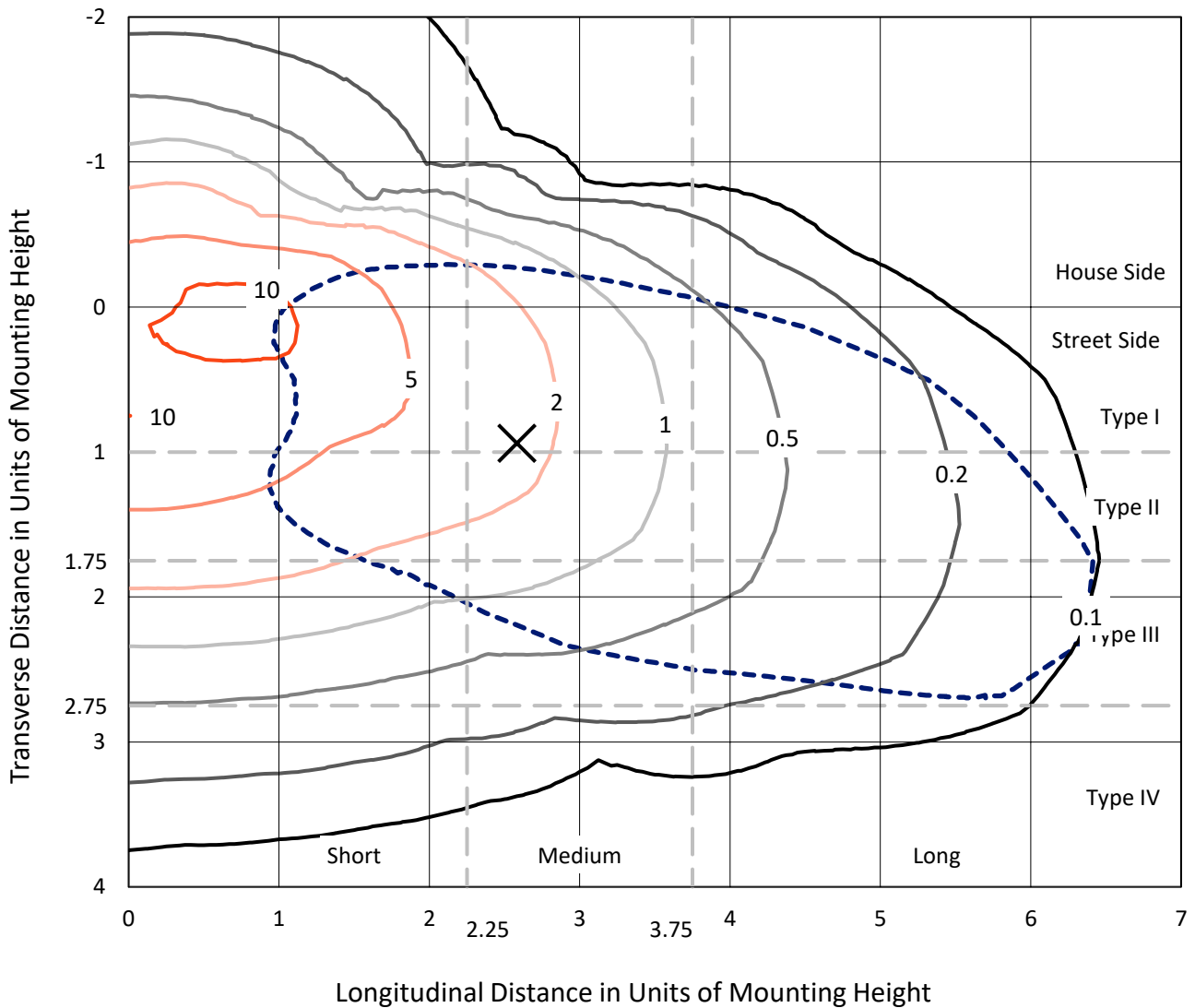
Input Watts (W): 418.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

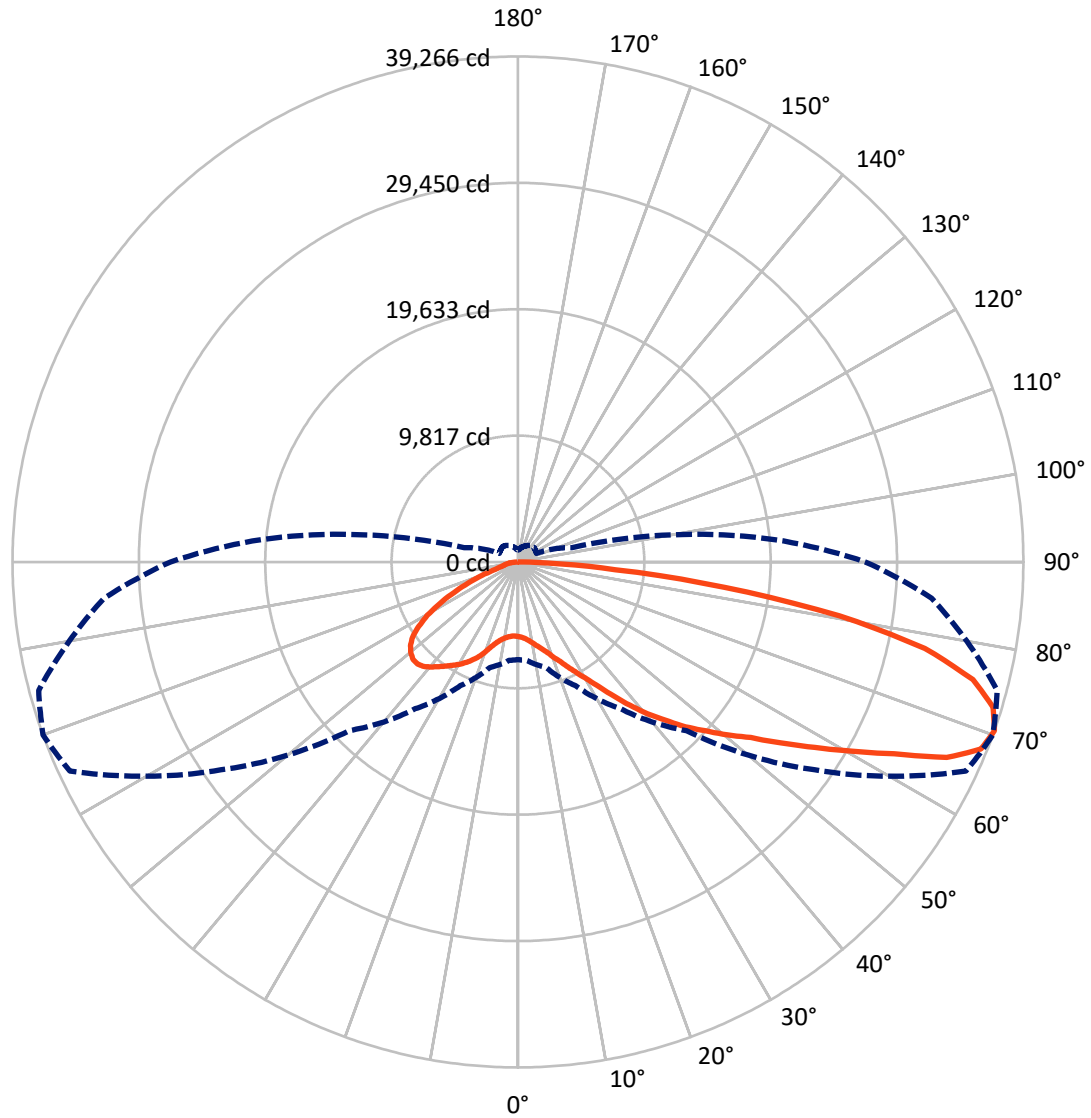
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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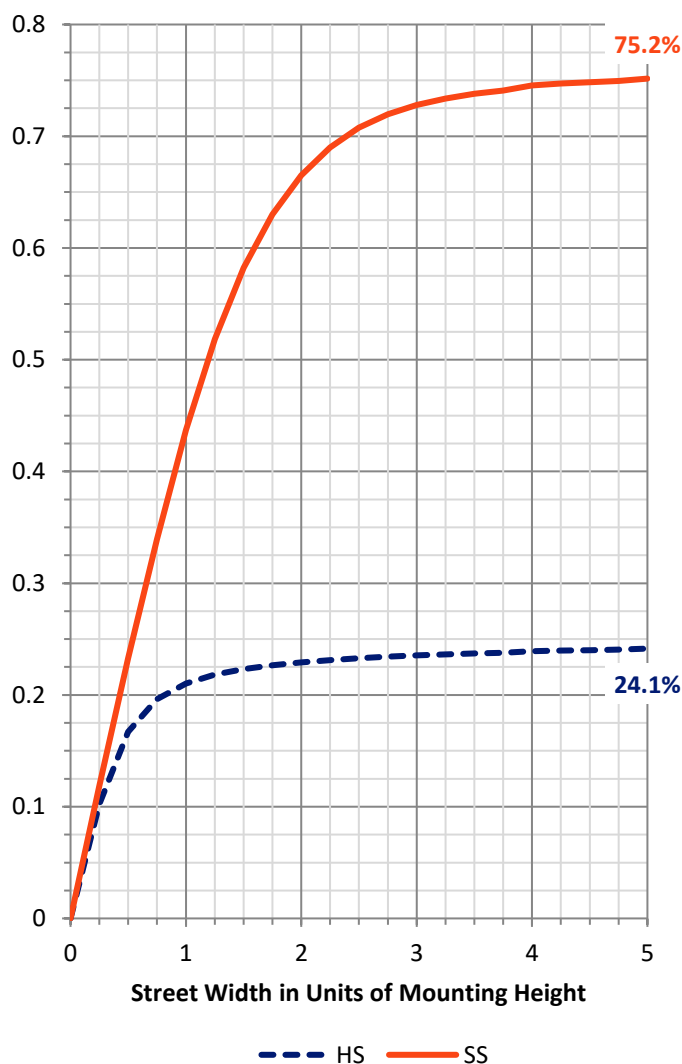
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14314.3	0.0	14314.3
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	43836.7	0.0	43836.7
	% Fixture	75.4	0.0	75.4
Total	Lumens	58151.0	0.0	58151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.3	1.0
10°-20°	1835.5	3.2
20°-30°	3466.5	6.0
30°-40°	5791.2	10.0
40°-50°	8844.4	15.2
50°-60°	11784.7	20.3
60°-70°	13599.1	23.4
70°-80°	10152.3	17.5
80°-90°	2110.0	3.6
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°	58151.0	100.0
0°-180°	58151.0	100.0

Coefficient of Utilization

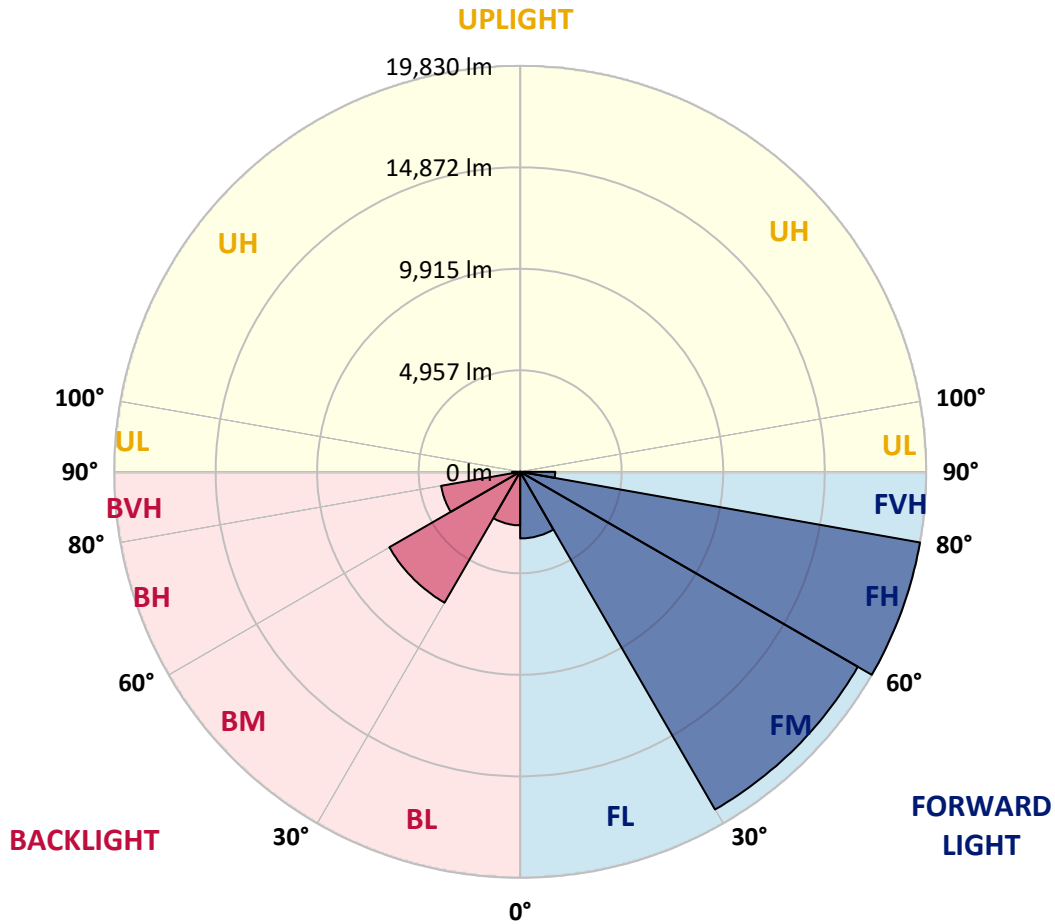


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3255.2	5.6			
FM (30°-60°)	19041.3	32.7			
FH (60°-80°)	19829.6	34.1			G5
FVH (80°-90°)	1710.6	2.9			G5
BL (0°-30°)	2614.1	4.5	B4/5000		
BM (30°-60°)	7379.0	12.7	B4/8500		
BH (60°-80°)	3921.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	399.3	0.7			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8
2.5°	5958.6	5970.2	5996.8	5955.1	5957.4	5908.7	5902.9	5889.0	5853.1	5843.8	5835.7
5°	6174.2	6200.9	6203.2	6174.2	6160.3	6081.5	6069.9	6039.7	5982.9	5957.4	5928.4
7.5°	6348.1	6372.4	6399.1	6377.1	6369.0	6301.7	6285.5	6228.7	6163.8	6126.7	6073.4
10°	6476.8	6516.2	6538.2	6545.2	6575.3	6523.1	6516.2	6474.5	6411.9	6349.3	6294.8
12.5°	6576.5	6615.9	6654.1	6690.1	6759.6	6762.0	6775.9	6756.2	6700.5	6632.1	6547.5
15°	6658.8	6692.4	6765.4	6841.9	6949.8	6995.0	7076.1	7069.2	7023.9	6949.8	6859.3
17.5°	6803.7	6851.2	6915.0	7010.0	7143.4	7234.9	7403.0	7455.2	7392.6	7368.2	7258.1
20°	7051.8	7075.0	7135.2	7215.2	7364.8	7544.5	7779.8	7917.7	7885.3	7862.1	7740.4
22.5°	7345.1	7368.2	7384.5	7461.0	7636.0	7902.7	8227.3	8426.7	8388.4	8397.7	8320.0
25°	7667.3	7699.8	7685.9	7753.1	7961.8	8247.0	8681.7	8995.8	9044.5	9073.5	9135.0
27.5°	8121.8	8164.7	8132.2	8153.1	8329.3	8686.3	9192.9	9630.0	9742.4	9792.3	10195.7
30°	8947.2	8990.1	8921.7	8714.1	8798.8	9177.9	9770.2	10355.7	10543.5	10792.7	11373.5
32.5°	10165.5	10162.1	10012.5	9647.4	9450.3	9730.8	10390.4	11175.3	11530.0	12054.0	12732.1
35°	11381.6	11315.5	11193.8	10844.9	10455.4	10373.0	11045.4	12044.7	12773.9	13592.3	14283.2
37.5°	12492.2	12500.3	12414.5	12137.4	11685.3	11337.5	11775.7	13030.1	14119.8	15243.1	15763.6
40°	13501.9	13519.3	13475.2	13268.9	12957.0	12544.3	12564.0	14061.8	15506.2	16829.0	17257.9
42.5°	14233.4	14338.9	14481.5	14275.1	14175.4	13794.0	13523.9	15000.8	16790.7	18249.0	18543.5
45°	14888.4	14901.1	15022.8	15121.4	15255.8	15116.7	14698.2	16058.1	18264.1	19670.3	19852.3
47.5°	15367.1	15328.9	15470.3	15816.9	16282.9	16318.9	16024.4	17298.5	19588.0	20981.4	21020.8
50°	15618.7	15629.1	15956.0	16470.7	17269.5	17517.6	17472.3	18834.5	21114.7	22337.8	22180.1
52.5°	15807.7	15891.1	16353.7	17053.9	18156.3	18681.5	18839.1	20696.2	22643.8	23775.2	23498.2
55°	15905.0	16037.2	16548.4	17461.9	18836.8	19780.4	20139.8	22828.1	24803.5	25581.4	24740.9
57.5°	15404.2	15538.7	16331.6	17551.2	19321.4	20597.7	21639.9	25302.0	27176.5	27526.6	26359.2
60°	14260.0	14395.7	15561.9	17324.0	19408.3	21351.2	23311.5	28245.3	29854.4	29787.1	27673.8
62.5°	13129.8	13170.3	14347.0	16518.3	19060.5	21680.5	25160.5	31479.7	32808.2	32459.2	29141.4
65°	11603.0	11693.4	12884.0	14991.5	18085.6	21479.9	26646.7	34727.9	36609.4	35592.7	30641.5
67.5°	9799.2	9944.1	10997.9	13129.8	16303.8	20551.3	27659.9	37427.8	38796.9	37965.7	31829.8
70°	7585.0	7669.7	8495.0	10600.3	13920.4	18526.1	28161.9	38409.7	39266.4	38541.9	32259.8
72.5°	5397.5	5331.4	5865.8	7320.7	10507.5	15524.8	27573.0	38197.6	38609.1	37729.2	31218.8
75°	3689.9	3538.1	3972.8	4741.4	6178.8	11044.3	24622.7	36328.8	36498.1	35347.0	28671.9
77.5°	1940.6	1963.8	2208.4	2953.8	4001.8	5248.0	17653.2	31975.8	32330.6	31617.6	24242.4
80°	419.7	456.7	1511.7	1851.3	2374.2	3108.0	7866.7	24077.8	25339.1	24873.1	17625.4
82.5°	278.2	294.5	961.0	1225.3	1380.7	1573.1	2837.9	13775.5	16177.5	15554.9	9436.4
85°	165.8	176.2	364.0	479.9	712.9	690.9	1045.7	5635.2	7572.3	7323.0	3401.3
87.5°	69.6	74.2	129.8	207.5	286.3	350.1	360.5	1498.9	2326.6	2363.7	738.4
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°	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8	5792.8
2.5°	5811.4	5799.8	5785.9	5740.6	5702.4	5685.0	5666.5	5637.5	5641.0	5652.5	5629.4
5°	5884.4	5858.9	5813.7	5743.0	5669.9	5620.1	5584.1	5536.6	5516.9	5514.6	5496.0
7.5°	6020.0	5987.6	5906.4	5795.1	5693.1	5615.4	5550.5	5479.8	5435.8	5424.2	5402.1
10°	6225.2	6169.6	6052.5	5904.1	5771.9	5660.7	5557.5	5445.0	5370.8	5336.1	5310.6
12.5°	6462.9	6402.6	6243.8	6072.2	5905.3	5744.1	5592.3	5426.5	5312.9	5252.6	5215.5
15°	6788.6	6697.0	6533.6	6338.8	6130.2	5908.7	5693.1	5446.2	5249.1	5133.2	5092.6
17.5°	7189.7	7085.4	6928.9	6707.5	6445.5	6133.6	5794.0	5424.2	5105.4	4932.6	4896.7
20°	7669.7	7632.6	7466.8	7180.4	6778.2	6340.0	5856.6	5361.6	4922.2	4668.3	4610.4
22.5°	8315.4	8318.8	8112.5	7614.0	7087.7	6466.3	5865.8	5223.6	4648.6	4355.3	4311.3
25°	9166.3	9163.9	8670.1	7972.2	7259.3	6508.1	5783.5	4968.6	4329.8	4001.8	3945.0
27.5°	10152.8	9982.4	9227.7	8245.8	7295.2	6426.9	5549.4	4588.3	3960.0	3644.7	3593.7
30°	11247.1	10924.9	9783.0	8446.4	7245.4	6198.6	5122.8	4172.2	3666.7	3363.0	3305.0
32.5°	12525.8	11975.1	10354.5	8557.6	7108.6	5878.6	4610.4	3953.1	3490.5	3150.9	3077.8
35°	13877.5	13226.0	10988.6	8608.7	6816.4	5337.2	4218.5	3797.7	3350.3	2970.0	2903.9
37.5°	15272.1	14484.9	11727.1	8627.2	6444.3	4659.1	3983.2	3625.0	3172.9	2835.5	2789.2
40°	16638.8	15656.9	12511.9	8621.4	5896.0	4160.6	3778.0	3398.9	3022.2	2720.8	2667.5
42.5°	17880.4	16744.3	13304.8	8543.7	5249.1	3904.4	3582.1	3249.4	2891.2	2551.5	2484.3
45°	19038.5	17735.5	13943.6	8298.0	4518.8	3663.3	3361.8	3069.7	2725.4	2377.6	2304.6
47.5°	20059.8	18691.9	14374.8	7866.7	3939.2	3421.0	3096.4	2854.1	2556.2	2224.6	2166.7
50°	21114.7	19588.0	14712.2	7149.1	3498.6	3134.6	2829.8	2613.0	2375.3	2107.5	2055.4
52.5°	22190.5	20649.9	15158.5	6029.3	3076.7	2843.7	2534.1	2298.8	2141.2	1964.9	1915.1
55°	23382.2	21741.9	15515.5	4604.6	2687.2	2572.4	2239.7	1990.4	1856.0	1754.0	1740.0
57.5°	24398.9	22657.7	15173.5	3185.6	2411.3	2300.0	1967.3	1711.1	1570.8	1548.8	1583.5
60°	25535.0	23395.0	13911.1	2403.1	2208.4	1973.1	1694.8	1488.5	1413.1	1349.4	1350.5
62.5°	26853.1	23800.7	11714.3	2036.8	1988.1	1736.6	1523.3	1378.4	1306.5	1202.2	1173.2
65°	27601.9	23644.2	9168.6	1827.0	1787.6	1656.6	1495.4	1343.6	1233.5	1090.9	1066.5
67.5°	27854.7	22415.4	6785.1	1676.3	1679.8	1663.5	1522.1	1332.0	1199.8	1036.4	1016.7
70°	26994.5	20013.4	4335.6	1591.7	1634.6	1680.9	1581.2	1374.9	1199.8	965.7	947.1
72.5°	24756.0	17014.4	2257.1	1467.6	1605.6	1672.8	1653.1	1463.0	1156.9	875.2	856.7
75°	21153.0	13345.4	1274.0	1341.3	1548.8	1655.4	1689.0	1457.2	1064.2	744.2	718.7
77.5°	16847.5	8344.3	1021.3	1202.2	1443.3	1533.7	1641.5	1490.8	1086.2	724.5	695.6
80°	9639.2	3230.9	830.0	1012.0	1214.9	1408.5	1572.0	1434.0	1008.6	666.6	638.8
82.5°	3800.0	991.2	658.5	804.5	990.0	1139.6	1390.0	1308.8	918.1	490.4	457.9
85°	995.8	410.4	451.0	553.0	693.2	830.0	1139.6	1060.7	745.4	380.2	358.2
87.5°	142.6	113.6	140.3	214.5	394.1	588.9	757.0	645.7	496.2	289.8	258.5
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)