

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: P622414

Luminaire Tested: **PRV-M-C200-D-U-T3-BZ-7030**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622414
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-C200-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: 49254 lumens
Efficiency: N/A
Efficacy: 142.4 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

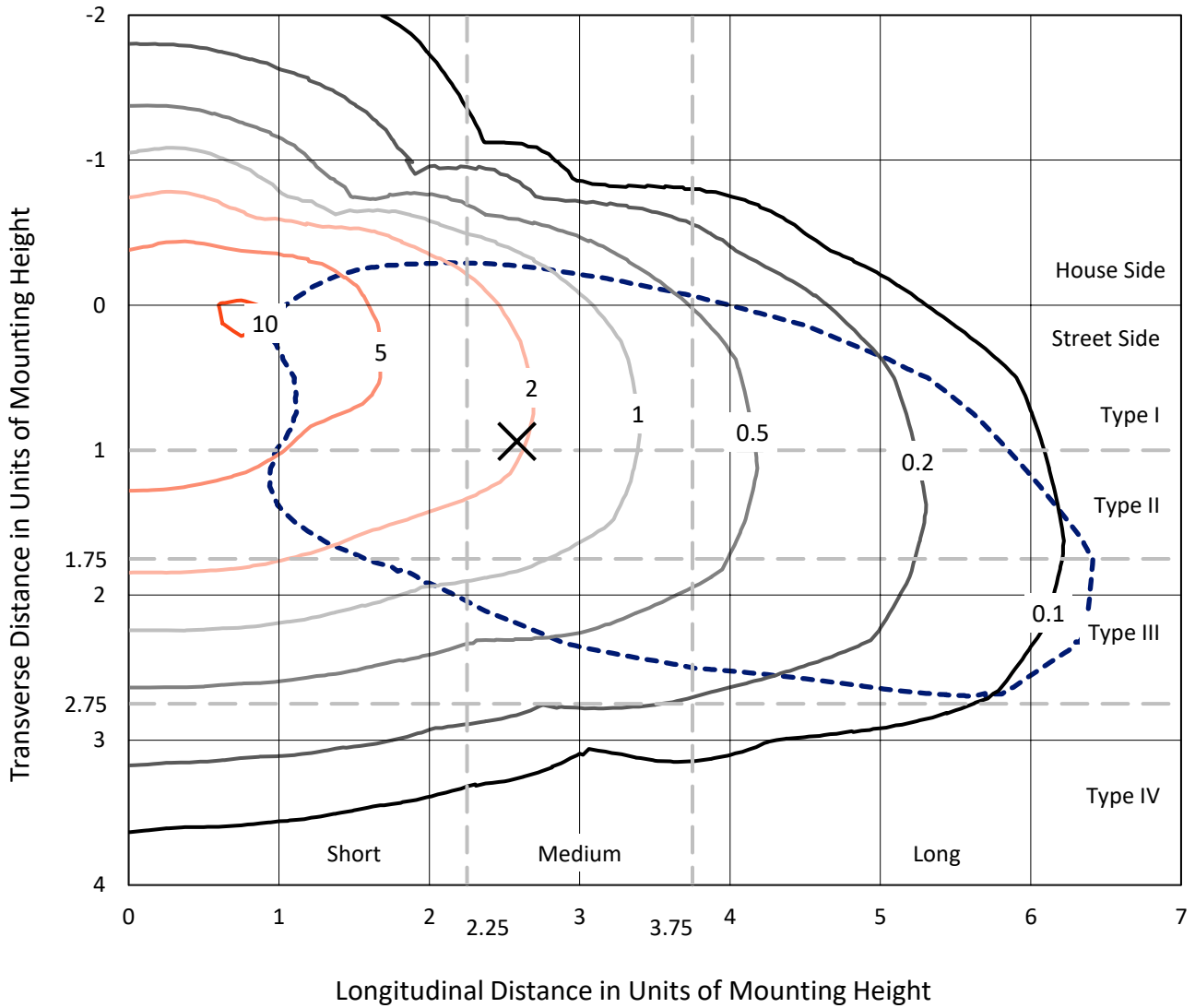
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

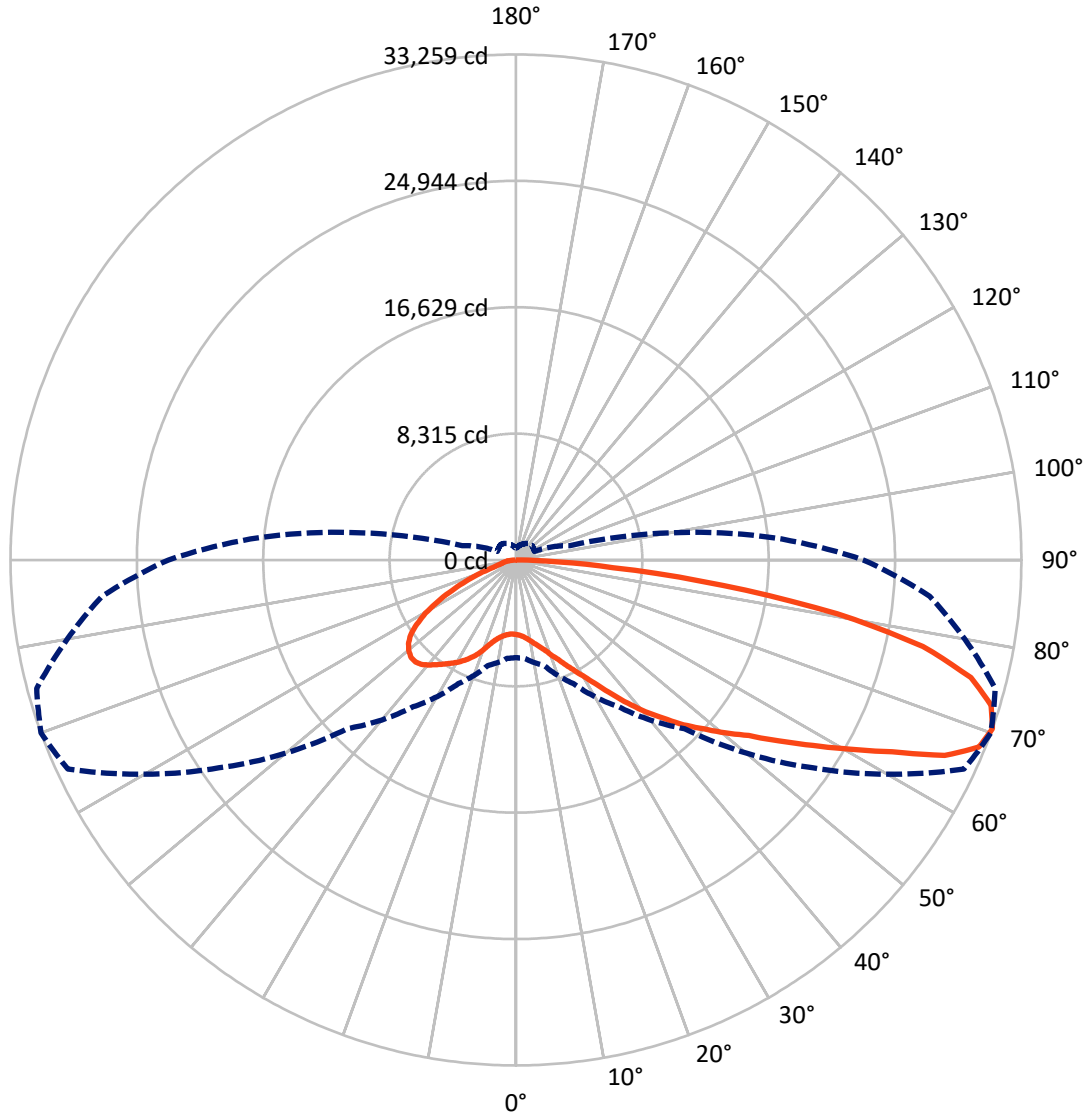
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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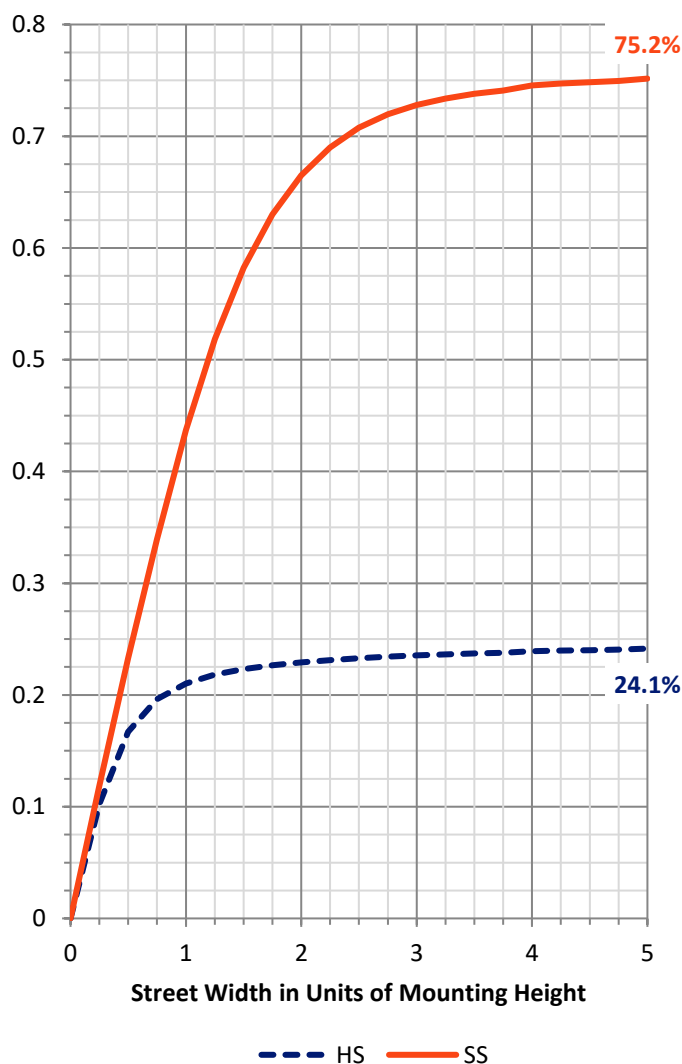
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12124.2	0.0	12124.2
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	37129.8	0.0	37129.8
	% Fixture	75.4	0.0	75.4
Total	Lumens	49254.0	0.0	49254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.5	1.0
10°-20°	1554.6	3.2
20°-30°	2936.2	6.0
30°-40°	4905.2	10.0
40°-50°	7491.2	15.2
50°-60°	9981.7	20.3
60°-70°	11518.4	23.4
70°-80°	8599.0	17.5
80°-90°	1787.2	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°	49254.0	100.0
0°-180°	49254.0	100.0

Coefficient of Utilization

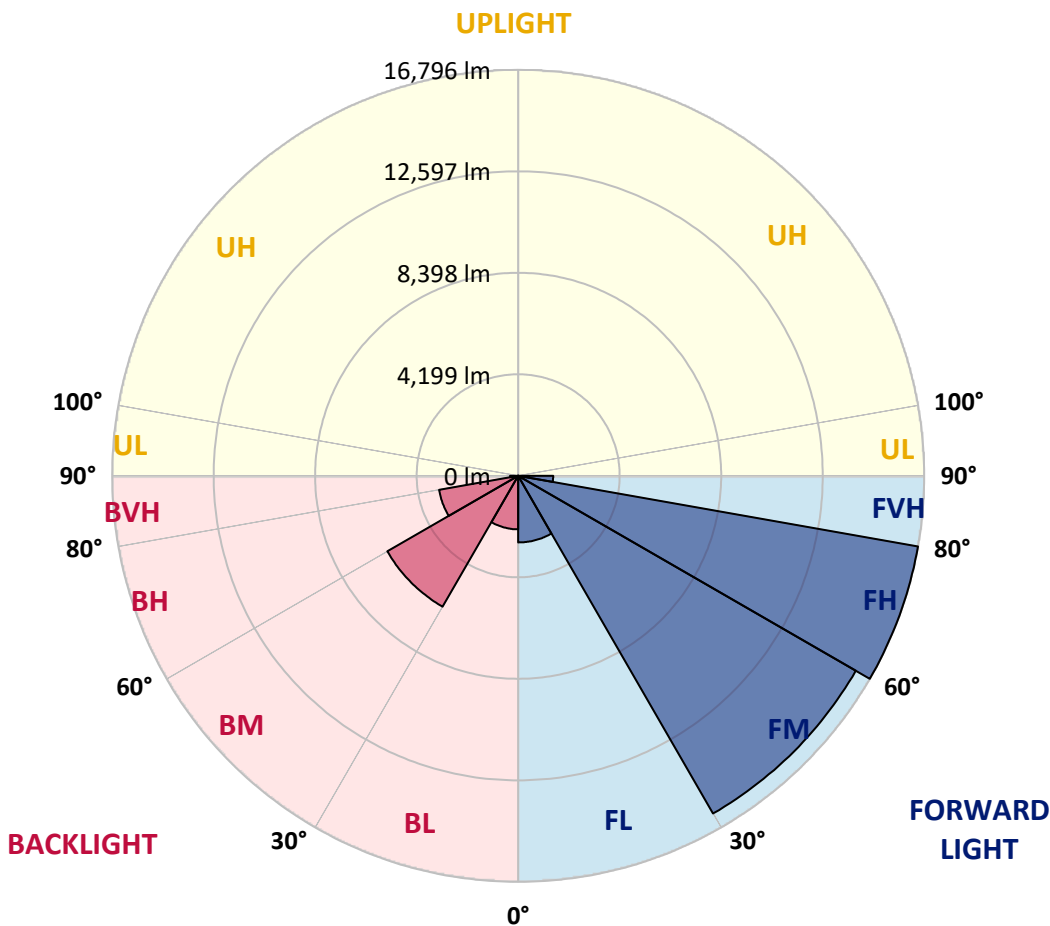


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2757.2	5.6			
FM (30°-60°)	16128.0	32.7			
FH (60°-80°)	16795.7	34.1			G5
FVH (80°-90°)	1448.9	2.9			G5
BL (0°-30°)	2214.2	4.5	B3/2500		
BM (30°-60°)	6250.0	12.7	B4/8500		
BH (60°-80°)	3321.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	338.2	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°	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5
2.5°	5046.9	5056.8	5079.3	5044.0	5046.0	5004.7	4999.8	4988.0	4957.6	4949.7	4942.9
5°	5229.6	5252.2	5254.1	5229.6	5217.8	5151.0	5141.2	5115.7	5067.6	5046.0	5021.4
7.5°	5376.9	5397.5	5420.1	5401.4	5394.5	5337.6	5323.8	5275.7	5220.7	5189.3	5144.1
10°	5485.8	5519.2	5537.9	5543.8	5569.3	5525.1	5519.2	5483.9	5430.9	5377.8	5331.7
12.5°	5570.3	5603.7	5636.1	5666.5	5725.4	5727.4	5739.2	5722.5	5675.3	5617.4	5545.7
15°	5640.0	5668.5	5730.3	5795.1	5886.5	5924.7	5993.5	5987.6	5949.3	5886.5	5809.9
17.5°	5762.7	5803.0	5857.0	5937.5	6050.4	6128.0	6270.4	6314.6	6261.5	6240.9	6147.6
20°	5972.9	5992.5	6043.6	6111.3	6238.0	6390.2	6589.5	6706.3	6678.8	6659.2	6556.1
22.5°	6221.3	6240.9	6254.7	6319.5	6467.7	6693.6	6968.5	7137.4	7105.0	7112.8	7047.1
25°	6494.2	6521.7	6510.0	6566.9	6743.6	6985.2	7353.4	7619.5	7660.7	7685.3	7737.3
27.5°	6879.2	6915.5	6888.0	6905.7	7054.9	7357.3	7786.4	8156.6	8251.8	8294.1	8635.8
30°	7578.3	7614.6	7556.7	7380.9	7452.6	7773.7	8275.4	8771.3	8930.3	9141.4	9633.4
32.5°	8610.2	8607.3	8480.6	8171.3	8004.4	8242.0	8800.7	9465.5	9765.9	10209.7	10784.1
35°	9640.2	9584.3	9481.2	9185.6	8855.7	8786.0	9355.5	10201.9	10819.5	11512.7	12097.9
37.5°	10580.9	10587.8	10515.1	10280.4	9897.5	9602.9	9974.1	11036.5	11959.5	12910.9	13351.8
40°	11436.1	11450.8	11413.5	11238.8	10974.6	10625.1	10641.8	11910.4	13133.8	14254.2	14617.5
42.5°	12055.7	12145.0	12265.8	12091.0	12006.6	11683.6	11454.8	12705.7	14221.8	15457.0	15706.4
45°	12610.5	12621.3	12724.4	12807.8	12921.7	12803.9	12449.4	13601.2	15469.7	16660.8	16814.9
47.5°	13016.0	12983.6	13103.4	13397.0	13791.7	13822.1	13572.7	14651.8	16591.1	17771.3	17804.7
50°	13229.1	13237.9	13514.8	13950.8	14627.3	14837.4	14799.1	15952.8	17884.2	18920.1	18786.6
52.5°	13389.1	13459.8	13851.6	14444.6	15378.4	15823.2	15956.8	17529.8	19179.3	20137.7	19903.0
55°	13471.6	13583.5	14016.5	14790.3	15954.8	16754.1	17058.4	19335.5	21008.6	21667.5	20955.6
57.5°	13047.4	13161.3	13832.9	14865.9	16365.2	17446.3	18329.0	21430.8	23018.5	23315.1	22326.3
60°	12078.3	12193.2	13180.9	14673.4	16438.9	18084.5	19744.9	23923.8	25286.7	25229.8	23439.8
62.5°	11120.9	11155.3	12151.9	13991.0	16144.3	18363.4	21311.0	26663.3	27788.6	27493.0	24682.9
65°	9827.8	9904.4	10912.8	12697.9	15318.5	18193.5	22569.8	29414.6	31008.2	30147.1	25953.4
67.5°	8300.0	8422.7	9315.2	11120.9	13809.4	17407.0	23428.0	31701.4	32861.0	32157.0	26959.9
70°	6424.5	6496.2	7195.3	8978.4	11790.6	15691.6	23853.2	32533.1	33258.7	32645.0	27324.1
72.5°	4571.7	4515.7	4968.4	6200.7	8899.9	13149.5	23354.4	32353.4	32702.0	31956.7	26442.4
75°	3125.4	2996.7	3365.0	4015.9	5233.5	9354.5	20855.4	30770.6	30914.0	29938.9	24285.2
77.5°	1643.7	1663.3	1870.5	2501.9	3389.5	4445.0	14952.3	27083.6	27384.0	26780.2	20533.4
80°	355.4	386.9	1280.4	1568.1	2010.9	2632.5	6663.1	20393.9	21462.2	21067.5	14928.7
82.5°	235.7	249.4	814.0	1037.9	1169.4	1332.4	2403.7	11667.8	13702.3	13175.1	7992.6
85°	140.4	149.2	308.3	406.5	603.9	585.2	885.7	4773.0	6413.7	6202.6	2880.9
87.5°	58.9	62.8	110.0	175.8	242.5	296.5	305.4	1269.6	1970.7	2002.1	625.5
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°	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5	4906.5
2.5°	4922.2	4912.4	4900.6	4862.3	4829.9	4815.2	4799.5	4775.0	4777.9	4787.7	4768.1
5°	4984.1	4962.5	4924.2	4864.3	4802.4	4760.2	4729.8	4689.5	4672.8	4670.9	4655.2
7.5°	5099.0	5071.5	5002.8	4908.5	4822.1	4756.3	4701.3	4641.4	4604.1	4594.3	4575.6
10°	5272.8	5225.6	5126.5	5000.8	4888.9	4794.6	4707.2	4612.0	4549.1	4519.7	4498.1
12.5°	5474.1	5423.0	5288.5	5143.2	5001.8	4865.3	4736.7	4596.2	4500.0	4449.0	4417.5
15°	5750.0	5672.4	5534.0	5369.0	5192.3	5004.7	4822.1	4612.9	4446.0	4347.8	4313.5
17.5°	6089.7	6001.3	5868.8	5681.2	5459.3	5195.2	4907.5	4594.3	4324.3	4178.0	4147.5
20°	6496.2	6464.8	6324.4	6081.9	5741.1	5370.0	4960.5	4541.3	4169.1	3954.1	3905.0
22.5°	7043.1	7046.1	6871.3	6449.1	6003.3	5477.0	4968.4	4424.4	3937.4	3689.0	3651.7
25°	7763.8	7761.9	7343.6	6752.5	6148.6	5512.4	4898.7	4208.4	3667.4	3389.5	3341.4
27.5°	8599.4	8455.1	7815.9	6984.2	6179.1	5443.6	4700.3	3886.3	3354.2	3087.1	3043.9
30°	9526.3	9253.4	8286.2	7154.1	6136.8	5250.2	4339.0	3533.8	3105.7	2848.5	2799.4
32.5°	10609.4	10143.0	8770.3	7248.3	6021.0	4979.2	3905.0	3348.3	2956.5	2668.8	2606.9
35°	11754.3	11202.4	9307.4	7291.5	5773.5	4520.6	3573.1	3216.7	2837.7	2515.6	2459.6
37.5°	12935.5	12268.8	9932.8	7307.3	5458.3	3946.2	3373.8	3070.4	2687.4	2401.7	2362.4
40°	14093.1	13261.5	10597.6	7302.3	4993.9	3524.0	3200.0	2878.9	2559.8	2304.5	2259.3
42.5°	15144.7	14182.5	11269.2	7236.6	4446.0	3307.0	3034.1	2752.2	2448.8	2161.1	2104.2
45°	16125.6	15022.0	11810.2	7028.4	3827.4	3102.8	2847.5	2600.1	2308.4	2013.9	1952.0
47.5°	16990.7	15832.1	12175.5	6663.1	3336.5	2897.6	2622.6	2417.4	2165.1	1884.3	1835.2
50°	17884.2	16591.1	12461.2	6055.3	2963.4	2655.0	2396.8	2213.2	2011.9	1785.1	1740.9
52.5°	18795.4	17490.5	12839.2	5106.8	2605.9	2408.6	2146.4	1947.1	1813.6	1664.3	1622.1
55°	19804.8	18415.4	13141.7	3900.1	2276.0	2178.8	1897.0	1685.9	1572.0	1485.6	1473.8
57.5°	20665.9	19191.1	12852.0	2698.2	2042.3	1948.1	1666.3	1449.3	1330.5	1311.8	1341.3
60°	21628.2	19815.6	11782.7	2035.5	1870.5	1671.2	1435.5	1260.8	1196.9	1142.9	1143.9
62.5°	22744.6	20159.3	9922.0	1725.2	1683.9	1470.9	1290.2	1167.5	1106.6	1018.2	993.7
65°	23378.9	20026.7	7765.8	1547.5	1514.1	1403.1	1266.6	1138.0	1044.7	924.0	903.3
67.5°	23593.0	18985.9	5747.0	1419.8	1422.8	1409.0	1289.2	1128.2	1016.3	877.8	861.1
70°	22864.4	16951.4	3672.3	1348.1	1384.5	1423.7	1339.3	1164.5	1016.3	817.9	802.2
72.5°	20968.3	14411.3	1911.7	1243.1	1359.9	1416.9	1400.2	1239.2	979.9	741.3	725.6
75°	17916.6	11303.6	1079.1	1136.1	1311.8	1402.1	1430.6	1234.2	901.4	630.4	608.8
77.5°	14269.9	7067.7	865.0	1018.2	1222.5	1299.0	1390.4	1262.7	920.0	613.7	589.1
80°	8164.4	2736.5	703.0	857.2	1029.0	1193.0	1331.4	1214.6	854.2	564.6	541.0
82.5°	3218.6	839.5	557.7	681.4	838.5	965.2	1177.3	1108.6	777.7	415.3	387.8
85°	843.4	347.6	382.0	468.4	587.2	703.0	965.2	898.4	631.4	322.1	303.4
87.5°	120.8	96.2	118.8	181.7	333.8	498.8	641.2	546.9	420.3	245.5	219.0
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)