

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: P381131

Luminaire Tested: **PRV-XL-PA4B-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39647 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

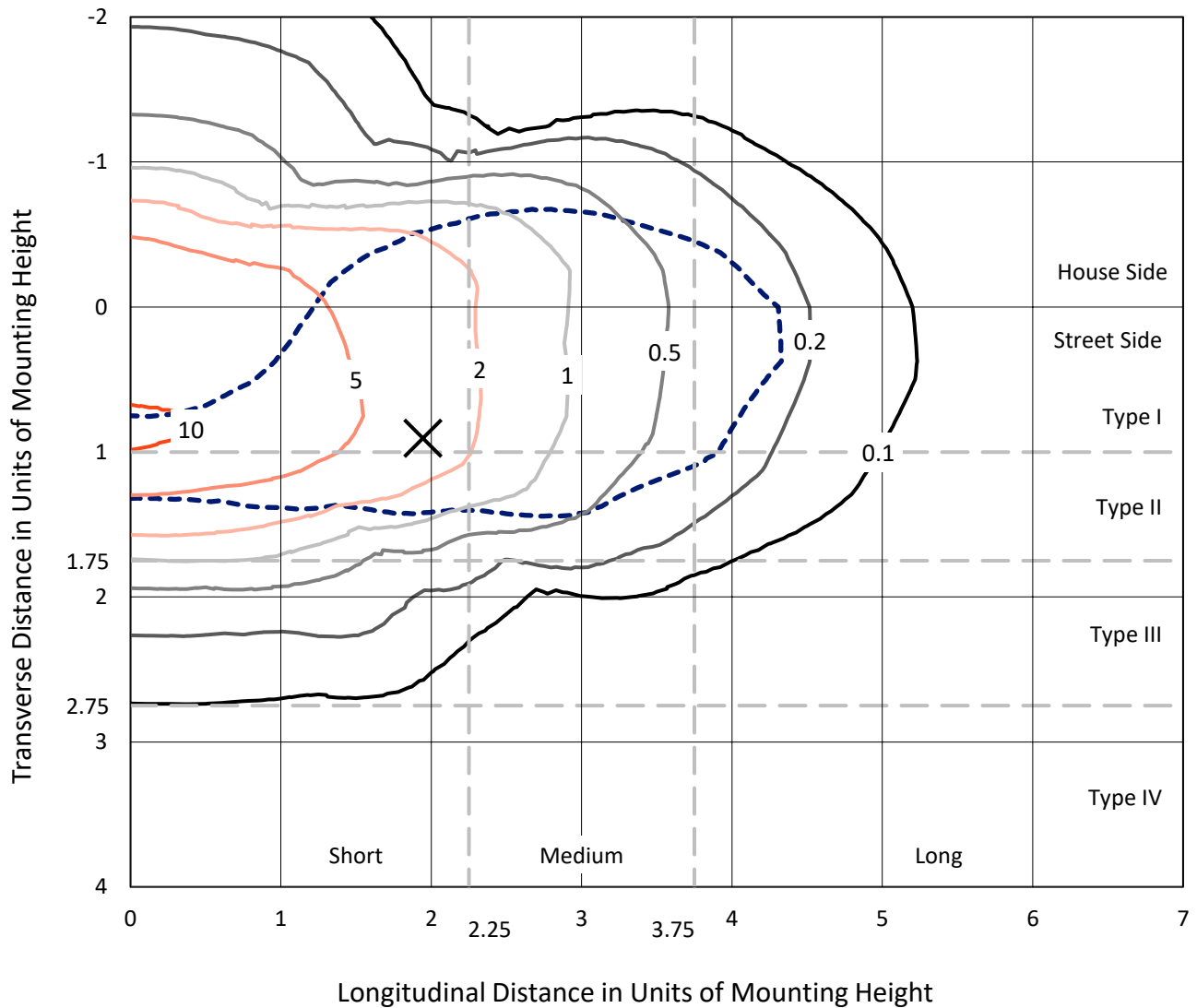
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

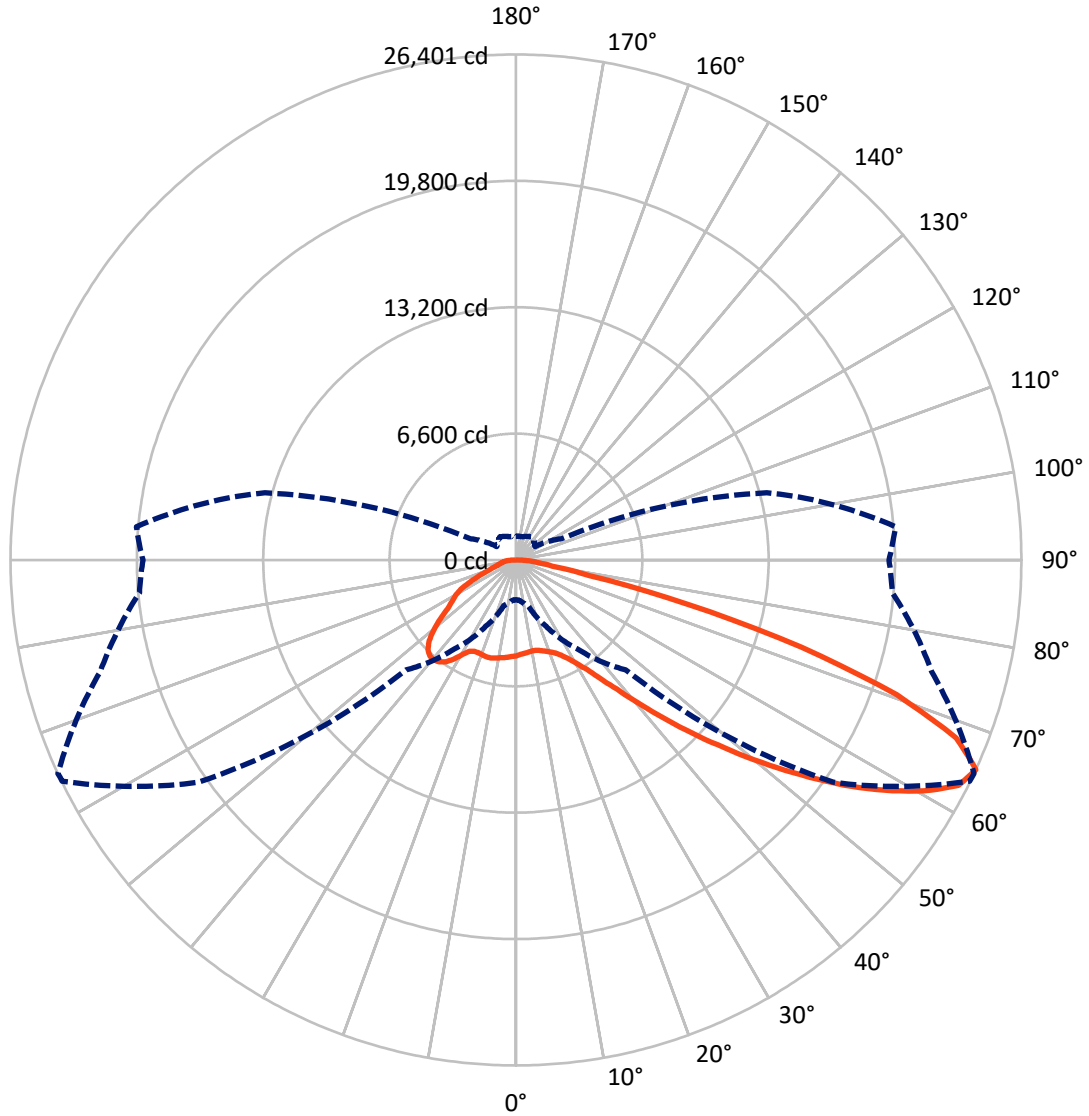
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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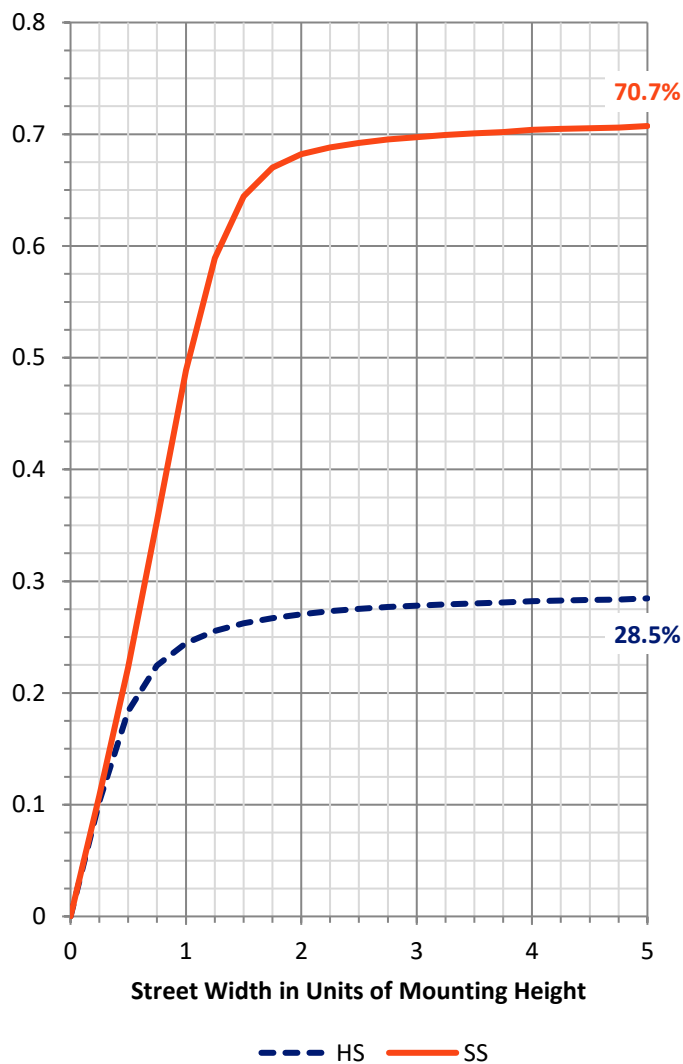
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11462.5	0.0	11462.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	28184.5	0.0	28184.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	39647.0	0.0	39647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.3	1.2
10°-20°	1425.0	3.6
20°-30°	2531.2	6.4
30°-40°	4282.1	10.8
40°-50°	7454.4	18.8
50°-60°	9633.5	24.3
60°-70°	8429.8	21.3
70°-80°	4585.2	11.6
80°-90°	828.5	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°	39647.0	100.0
0°-180°	39647.0	100.0

Coefficient of Utilization

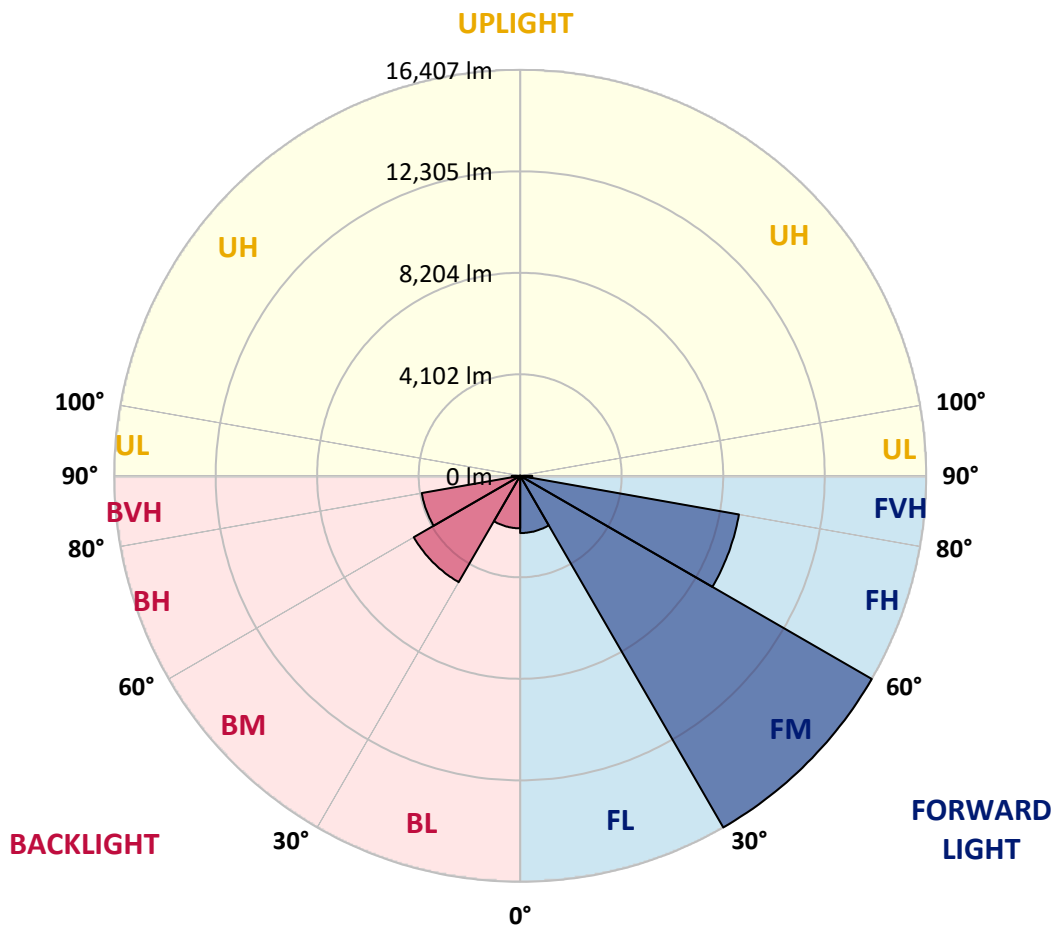


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.3	5.8			
FM (30°-60°)	16407.0	41.4			
FH (60°-80°)	8976.6	22.6			G4/12000
FVH (80°-90°)	487.5	1.2			G3/500
BL (0°-30°)	2120.2	5.3	B3/2500		
BM (30°-60°)	4963.0	12.5	B3/5000		
BH (60°-80°)	4038.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	341.0	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8
2.5°	4921.1	4915.8	4905.4	4915.8	4921.1	4931.5	4926.3	4936.7	4931.5	4947.2	4973.3
5°	4795.8	4785.4	4780.2	4806.3	4821.9	4848.0	4858.4	4895.0	4889.8	4915.8	4957.6
7.5°	4654.9	4654.9	4649.7	4681.0	4701.9	4748.9	4785.4	4848.0	4853.2	4900.2	4947.2
10°	4545.3	4550.6	4545.3	4571.4	4602.7	4660.1	4722.8	4811.5	4816.7	4884.5	4931.5
12.5°	4503.6	4503.6	4503.6	4540.1	4581.9	4660.1	4733.2	4827.1	4837.6	4910.6	4952.4
15°	4561.0	4566.2	4555.8	4592.3	4639.3	4733.2	4801.0	4900.2	4910.6	4978.5	5004.6
17.5°	4764.5	4785.4	4759.3	4780.2	4769.7	4842.8	4905.4	5004.6	5009.8	5067.2	5077.6
20°	5166.3	5187.2	5145.5	5119.4	5025.4	5020.2	5046.3	5124.6	5124.6	5161.1	5135.0
22.5°	5787.3	5808.2	5735.2	5636.0	5411.6	5302.0	5244.6	5281.1	5275.9	5291.6	5223.7
25°	6611.9	6606.6	6517.9	6335.3	5975.2	5709.1	5568.2	5510.8	5510.8	5479.4	5396.0
27.5°	7634.7	7556.4	7399.9	7180.7	6679.7	6309.2	6006.5	5860.4	5834.3	5740.4	5583.8
30°	8725.4	8668.0	8443.6	8125.2	7546.0	7071.1	6570.1	6277.9	6262.2	6058.7	5823.9
32.5°	10009.1	9915.2	9664.7	9283.7	8589.7	7921.7	7295.5	6851.9	6825.8	6502.3	6178.7
35°	11658.2	11579.9	11094.6	10713.6	9821.3	8944.5	8203.5	7613.8	7592.9	7196.3	6784.1
37.5°	13636.0	13432.5	12962.8	12247.9	11308.5	10270.0	9330.7	8589.7	8563.6	8125.2	7603.4
40°	15399.9	15217.2	14799.7	14142.2	13135.0	11981.7	10708.4	9810.8	9784.7	9252.4	8594.9
42.5°	16704.5	16579.2	16307.9	15926.9	15206.8	14507.5	12467.0	11287.7	11240.7	10551.8	9732.5
45°	17461.2	17362.0	17205.5	17299.4	17289.0	17158.5	14564.9	13046.3	12895.0	12002.6	11000.6
47.5°	17278.5	17189.8	17252.4	17983.0	18990.2	19746.9	17007.2	14846.7	14643.2	13479.4	12352.2
50°	15958.2	15994.8	16323.5	17722.1	19981.7	21662.1	19715.6	16897.6	16626.2	14966.7	13636.0
52.5°	13552.5	13641.2	14439.6	16396.6	19872.1	22904.1	22163.1	19016.3	18656.2	16417.5	14804.9
55°	10765.8	10990.2	12023.5	14079.6	18442.3	22992.8	24010.4	21145.4	20748.8	17779.5	15822.6
57.5°	7963.5	8297.4	9492.5	11381.6	15702.5	21589.0	24934.1	23180.7	22700.6	19131.1	16897.6
60°	5051.5	5255.1	6632.7	8861.0	12018.3	18155.2	24814.1	24913.2	24495.7	20477.5	18019.6
62.5°	3225.0	3324.2	4018.3	6319.6	8401.8	13442.9	23504.2	26223.1	25941.3	21703.8	19084.1
65°	2071.8	2113.5	2468.4	3887.8	5719.5	8114.8	20242.6	26364.0	26400.5	22471.0	19741.7
67.5°	1685.6	1706.5	1836.9	2400.5	4044.4	4482.7	14100.4	24360.1	24803.6	22272.6	19517.3
70°	1534.2	1560.3	1696.0	1915.2	3131.1	3094.6	6825.8	20383.5	21108.9	21129.8	18520.5
72.5°	1294.2	1330.7	1513.4	1810.8	2421.4	2442.3	2891.1	14517.9	15587.7	18885.8	17022.8
75°	1080.2	1101.1	1257.7	1596.9	2050.9	1951.7	2030.0	7697.3	9242.0	15144.1	15431.2
77.5°	876.7	897.6	1012.4	1273.3	1821.3	1518.6	1596.9	3188.5	3940.0	10280.5	12613.2
80°	626.2	647.1	777.6	991.5	1377.7	1367.3	1184.6	1758.6	1910.0	5557.7	8193.1
82.5°	448.8	464.4	589.7	709.7	955.0	1372.5	892.4	1195.0	1252.4	2463.1	3303.3
85°	302.7	302.7	407.0	469.7	615.8	866.3	720.2	808.9	845.4	1168.9	892.4
87.5°	130.5	130.5	219.2	240.1	323.5	401.8	537.5	407.0	417.5	631.4	365.3
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°	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8	5009.8
2.5°	4988.9	4994.1	5004.6	5035.9	5056.7	5088.1	5103.7	5124.6	5124.6	5114.2	5119.4
5°	4978.5	4994.1	5030.7	5088.1	5124.6	5182.0	5223.7	5255.1	5265.5	5255.1	5260.3
7.5°	4973.3	4999.3	5062.0	5145.5	5197.6	5270.7	5328.1	5364.6	5390.7	5380.3	5385.5
10°	4957.6	4999.3	5077.6	5182.0	5260.3	5333.3	5385.5	5401.2	5416.8	5406.4	5401.2
12.5°	4978.5	5025.4	5108.9	5234.2	5322.9	5380.3	5396.0	5369.9	5333.3	5312.5	5307.2
15°	5020.2	5067.2	5150.7	5281.1	5359.4	5380.3	5343.8	5260.3	5176.8	5129.8	5124.6
17.5°	5077.6	5108.9	5176.8	5291.6	5354.2	5328.1	5255.1	5155.9	5093.3	5056.7	5062.0
20°	5114.2	5114.2	5166.3	5255.1	5307.2	5286.4	5197.6	5088.1	4988.9	4941.9	4926.3
22.5°	5166.3	5140.2	5145.5	5223.7	5296.8	5265.5	5077.6	4884.5	4743.6	4691.5	4686.2
25°	5307.2	5234.2	5187.2	5234.2	5406.4	5150.7	4774.9	4550.6	4420.1	4373.1	4378.3
27.5°	5479.4	5380.3	5281.1	5359.4	5495.1	4889.8	4388.8	4133.1	4054.8	4018.3	4033.9
30°	5651.7	5521.2	5390.7	5672.5	5432.5	4482.7	3893.0	3642.5	3574.7	3548.6	3569.5
32.5°	5970.0	5756.0	5599.5	6090.0	5239.4	4018.3	3355.5	3125.9	3063.3	3032.0	3021.5
35°	6502.3	6230.9	6074.4	6455.3	4968.0	3501.6	2865.0	2703.2	2635.4	2567.5	2557.1
37.5°	7269.4	6940.6	6799.7	6664.1	4587.1	2990.2	2489.2	2379.6	2280.5	2176.1	2170.9
40°	8187.9	7759.9	7655.6	6758.0	4060.0	2510.1	2228.3	2123.9	1998.7	1899.5	1904.8
42.5°	9247.2	8699.3	8474.9	6731.9	3407.7	2254.4	2040.4	1925.6	1816.0	1727.3	1722.1
45°	10379.6	9758.6	9242.0	6549.2	2760.6	2077.0	1925.6	1790.0	1680.4	1581.2	1570.8
47.5°	11632.1	10938.0	9951.7	6194.4	2280.5	1951.7	1857.8	1664.7	1565.6	1502.9	1502.9
50°	12895.0	12065.2	10604.0	5656.9	1998.7	1857.8	1758.6	1596.9	1518.6	1466.4	1466.4
52.5°	13975.2	13239.4	11141.5	5015.0	1821.3	1779.5	1690.8	1565.6	1482.1	1435.1	1429.9
55°	15024.1	14330.1	11621.6	4378.3	1675.1	1675.1	1675.1	1539.5	1445.5	1403.8	1398.6
57.5°	16067.8	15478.1	12122.6	3960.9	1544.7	1586.4	1643.8	1508.2	1414.2	1377.7	1372.5
60°	17247.2	16855.8	12701.9	3668.6	1429.9	1492.5	1602.1	1471.6	1362.0	1330.7	1325.5
62.5°	18499.7	18499.7	13229.0	3256.4	1325.5	1414.2	1539.5	1424.7	1315.1	1289.0	1283.8
65°	19480.7	19903.4	13568.2	2640.6	1221.1	1335.9	1466.4	1362.0	1252.4	1247.2	1236.8
67.5°	19595.5	20258.3	13354.2	1993.5	1127.2	1252.4	1393.3	1294.2	1189.8	1189.8	1174.2
70°	18771.0	19444.2	12686.2	1492.5	1059.4	1168.9	1299.4	1210.7	1111.5	1122.0	1095.9
72.5°	17393.3	17560.3	11026.7	1179.4	981.1	1080.2	1184.6	1116.8	1028.0	1028.0	991.5
75°	15577.3	14648.4	8010.4	986.3	887.1	975.9	1069.8	1012.4	934.1	908.0	887.1
77.5°	12399.2	10614.5	4654.9	850.6	808.9	876.7	939.3	897.6	829.7	772.3	772.3
80°	7556.4	6220.5	2056.1	735.8	714.9	767.1	808.9	761.9	704.5	647.1	631.4
82.5°	2875.4	2400.5	996.7	631.4	626.2	657.5	688.8	641.9	600.1	574.0	495.8
85°	788.0	725.4	683.6	527.1	516.6	511.4	547.9	527.1	469.7	386.2	344.4
87.5°	297.5	339.2	370.5	323.5	344.4	318.3	365.3	334.0	297.5	193.1	172.2
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)