

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: P380939

Luminaire Tested: **PRV-XL-PA4B-740-U-T3**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39532 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

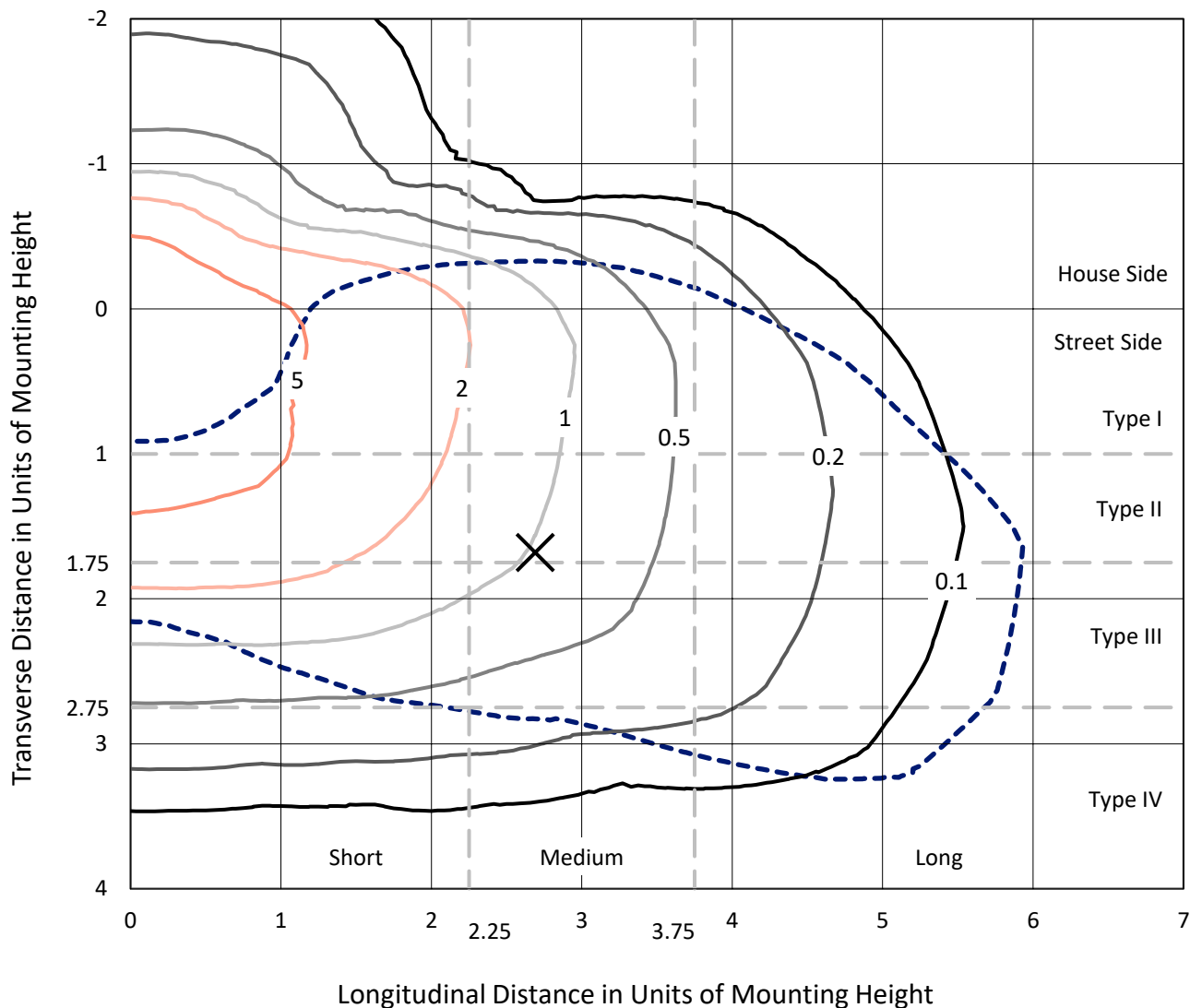
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

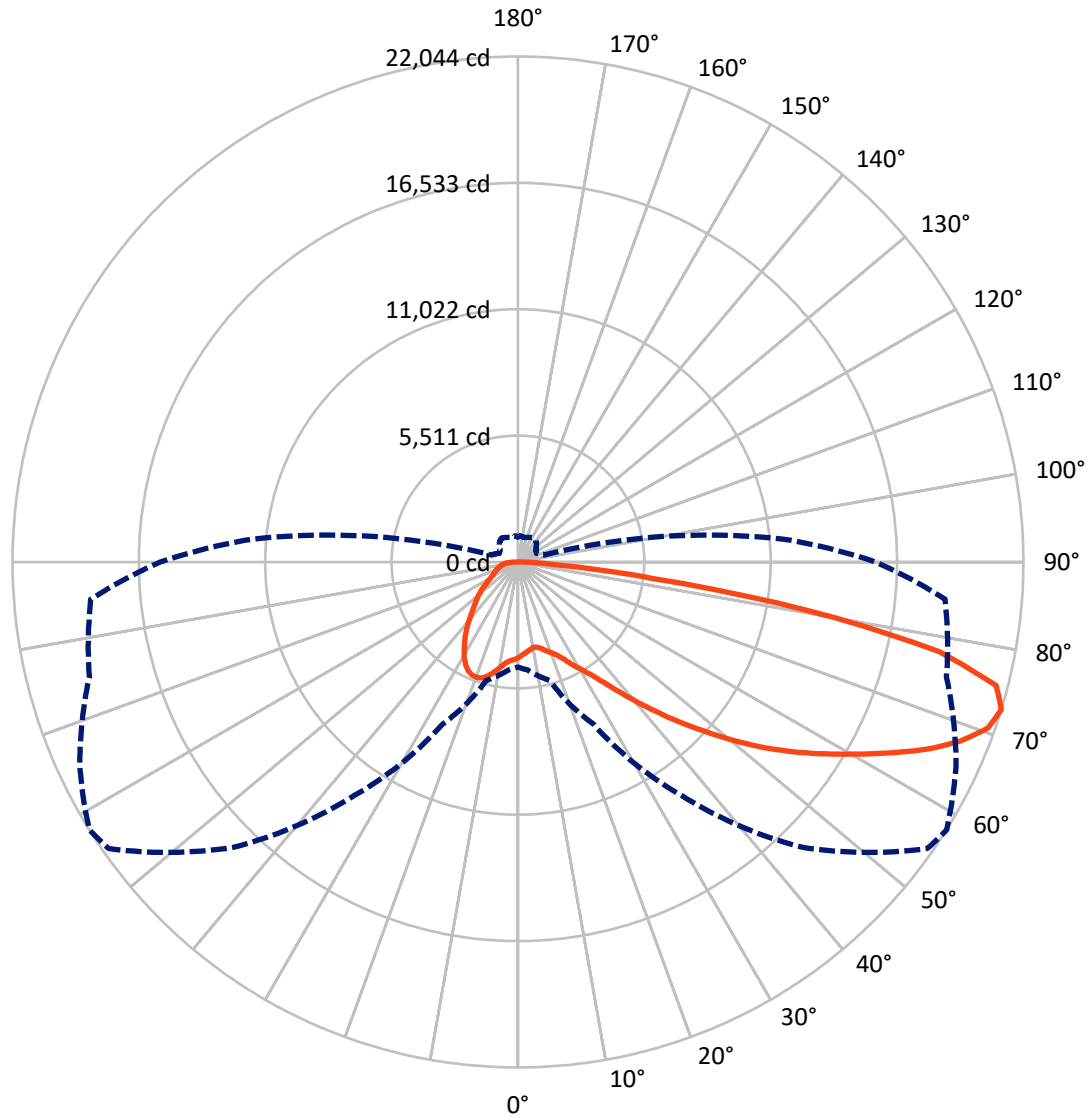
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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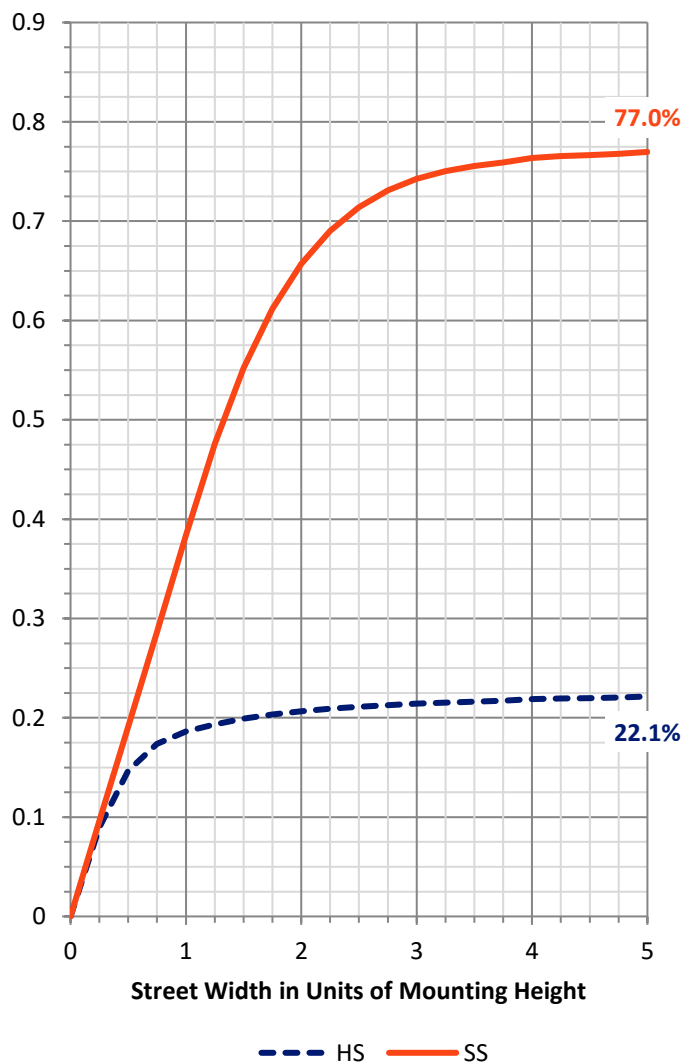
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8965.4	0.0	8965.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	30566.6	0.0	30566.6
	% Fixture	77.3	0.0	77.3
Total	Lumens	39532.0	0.0	39532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.7	1.0
10°-20°	1275.6	3.2
20°-30°	2285.1	5.8
30°-40°	3437.4	8.7
40°-50°	5566.4	14.1
50°-60°	8379.2	21.2
60°-70°	9861.5	24.9
70°-80°	6992.7	17.7
80°-90°	1332.4	3.4
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°	39532.0	100.0
0°-180°	39532.0	100.0

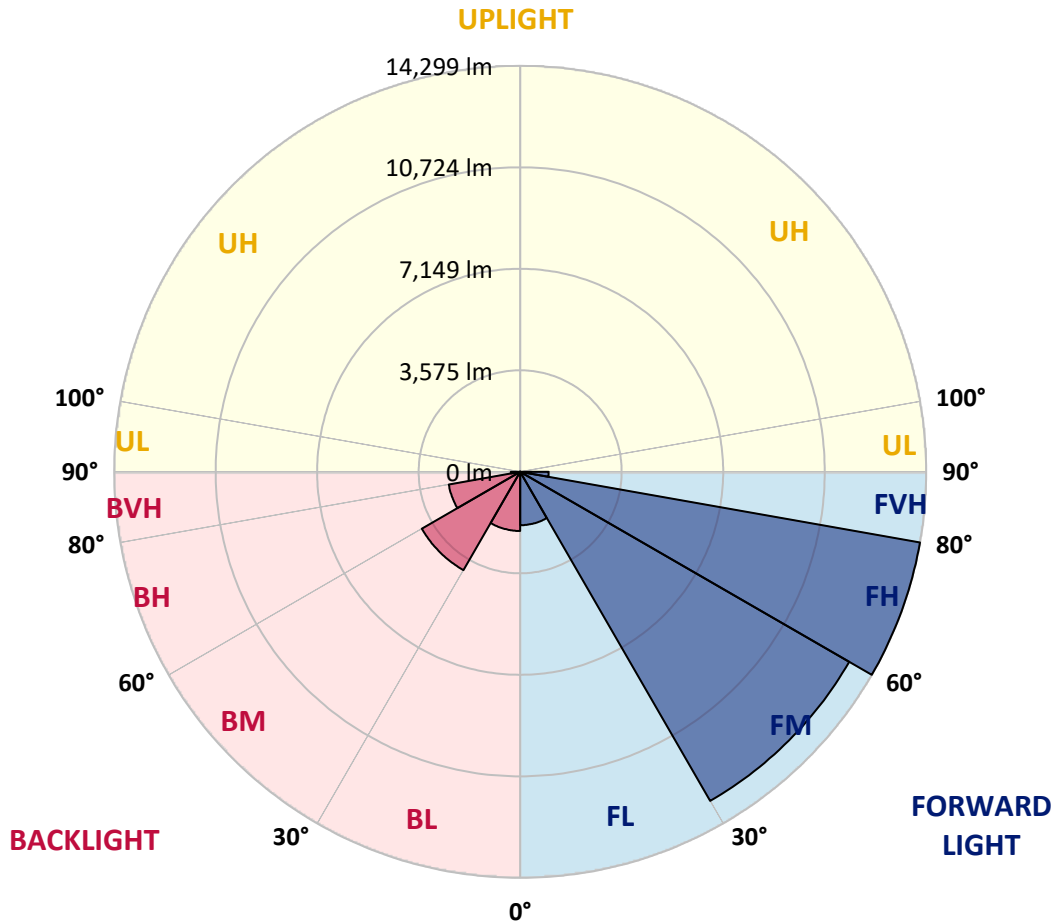


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.9	4.8			
FM (30°-60°)	13382.7	33.9			
FH (60°-80°)	14298.9	36.2			G5
FVH (80°-90°)	1005.1	2.5			G5
BL (0°-30°)	2082.5	5.3	B3/2500		
BM (30°-60°)	4000.3	10.1	B3/5000		
BH (60°-80°)	2555.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	327.4	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8
2.5°	4013.2	3992.3	3997.6	3997.6	4018.4	4028.9	4034.1	4049.8	4060.2	4086.3	4122.8
5°	3825.3	3809.7	3814.9	3820.1	3856.7	3893.2	3924.5	3945.4	3976.7	4018.4	4070.6
7.5°	3689.7	3679.2	3684.4	3694.9	3726.2	3767.9	3820.1	3851.4	3898.4	3976.7	4065.4
10°	3590.5	3590.5	3595.7	3616.6	3647.9	3700.1	3741.8	3778.4	3872.3	4013.2	4148.9
12.5°	3512.2	3512.2	3527.9	3569.6	3621.8	3674.0	3773.2	3814.9	3940.2	4133.3	4295.0
15°	3507.0	3512.2	3517.4	3554.0	3611.4	3726.2	3872.3	3934.9	4086.3	4315.9	4503.8
17.5°	3590.5	3595.7	3574.8	3585.3	3653.1	3814.9	4008.0	4081.1	4274.2	4524.7	4717.8
20°	3846.2	3846.2	3783.6	3726.2	3773.2	3950.6	4169.8	4242.8	4456.8	4733.4	4926.5
22.5°	4368.1	4394.2	4248.1	4122.8	4049.8	4148.9	4347.2	4425.5	4665.6	4963.0	5156.1
25°	4999.6	5025.7	4827.3	4649.9	4514.2	4498.6	4629.0	4712.5	4910.8	5218.8	5380.5
27.5°	5610.2	5563.2	5380.5	5213.5	5041.3	4900.4	4999.6	5072.6	5302.3	5537.1	5636.3
30°	6090.3	6053.8	5876.3	5756.3	5594.5	5411.8	5354.4	5432.7	5620.6	5839.8	5892.0
32.5°	6622.6	6596.5	6419.1	6262.5	6126.8	5954.6	5829.3	5865.9	5970.3	6126.8	6158.1
35°	7301.0	7358.4	7170.6	6852.2	6700.9	6533.9	6445.2	6455.6	6533.9	6633.0	6580.9
37.5°	8016.0	8083.9	8094.3	7593.3	7389.8	7238.4	7144.5	7181.0	7274.9	7342.8	7181.0
40°	9341.6	9273.7	9002.4	8631.8	8318.7	8172.6	8042.1	8036.9	8104.7	8224.8	7932.5
42.5°	11100.3	11037.7	10489.7	10009.6	9513.8	9346.8	9091.1	8981.5	9012.8	9164.1	8757.1
45°	12786.0	12759.9	12321.5	11763.1	11168.1	10844.6	10260.1	9993.9	9967.8	10087.9	9602.5
47.5°	14283.7	14168.9	13850.6	13417.4	13354.8	12509.4	11434.3	11074.2	10948.9	11016.8	10474.0
50°	15885.9	15494.5	15056.1	14790.0	15244.0	14456.0	12619.0	12243.2	11935.3	11982.3	11418.6
52.5°	16736.5	16079.0	15792.0	15870.2	16480.8	16178.1	13908.0	13448.7	12953.0	13020.8	12358.0
55°	16005.9	16000.7	16126.0	16611.3	17462.0	17112.3	15134.4	14617.7	14075.0	14090.6	13438.3
57.5°	15003.9	15207.5	15854.6	16924.4	18677.9	18093.4	16339.9	15792.0	15296.2	15217.9	14664.7
60°	14090.6	14315.0	15254.4	16872.2	19100.6	18991.1	17488.0	17007.9	16606.1	16376.5	15953.7
62.5°	12702.5	12869.5	14200.2	16538.2	18745.8	19638.2	18651.8	18323.1	18020.4	17545.5	17341.9
65°	11069.0	11126.4	12530.2	15437.1	18302.2	19888.7	19810.4	19664.3	19372.0	18672.7	18714.5
67.5°	9299.8	9414.6	10646.3	13678.4	17331.5	19773.9	20708.0	20828.1	20483.6	19434.6	19591.2
70°	7415.9	7556.8	8490.9	11246.4	15682.4	19278.1	21537.8	21730.9	21068.1	19685.1	19753.0
72.5°	4587.3	4723.0	5349.2	7812.5	12431.1	17613.3	21793.5	22044.0	21083.8	19351.1	18698.8
75°	1586.5	1602.2	2092.7	3747.1	7379.3	13297.4	20958.5	21548.2	20421.0	18135.2	16272.1
77.5°	725.4	751.5	928.9	1544.8	3272.2	7175.8	17305.4	18782.3	18406.6	16235.5	12525.0
80°	501.0	511.4	641.9	923.7	1889.2	2525.9	10922.9	12848.6	13506.1	12572.0	8026.4
82.5°	375.8	386.2	495.8	626.3	1362.1	1226.4	4159.3	5970.3	7421.1	7285.4	3355.7
85°	360.1	354.9	386.2	417.5	908.1	730.6	1346.4	1847.4	2896.4	2478.9	845.4
87.5°	156.6	172.2	396.6	234.8	474.9	339.2	584.5	683.7	882.0	767.2	302.7
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°	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8	4169.8
2.5°	4138.5	4148.9	4180.2	4227.2	4253.3	4305.5	4342.0	4362.9	4378.5	4383.8	4383.8
5°	4101.9	4122.8	4190.7	4268.9	4342.0	4451.6	4550.8	4608.2	4649.9	4665.6	4670.8
7.5°	4112.4	4164.6	4263.7	4378.5	4472.5	4613.4	4733.4	4848.2	4942.2	4978.7	4978.7
10°	4211.5	4284.6	4420.3	4571.6	4691.7	4837.8	4963.0	5062.2	5171.8	5234.4	5244.8
12.5°	4362.9	4451.6	4629.0	4796.0	4931.7	5046.5	5161.3	5234.4	5286.6	5333.6	5344.0
15°	4576.8	4686.4	4863.9	5036.1	5156.1	5229.2	5260.5	5260.5	5255.3	5260.5	5270.9
17.5°	4790.8	4895.2	5072.6	5244.8	5302.3	5260.5	5224.0	5213.5	5208.3	5197.9	5203.1
20°	4999.6	5098.7	5250.1	5380.5	5333.6	5187.4	5140.5	5135.3	5119.6	5109.2	5098.7
22.5°	5208.3	5281.4	5406.6	5453.6	5265.7	5057.0	4999.6	4968.3	4947.4	4921.3	4895.2
25°	5448.4	5469.3	5563.2	5490.1	5098.7	4816.9	4733.4	4686.4	4665.6	4639.5	4618.6
27.5°	5672.8	5672.8	5688.4	5432.7	4853.4	4498.6	4373.3	4289.8	4284.6	4279.4	4274.2
30°	5876.3	5850.2	5798.0	5260.5	4535.1	4107.2	3919.3	3835.8	3867.1	3893.2	3898.4
32.5°	6116.4	6064.2	5918.1	5025.7	4154.1	3668.8	3439.2	3402.6	3439.2	3470.5	3449.6
35°	6492.1	6398.2	6043.3	4754.3	3788.8	3266.9	3047.8	2995.6	2985.1	2979.9	2938.2
37.5°	7029.7	6867.9	6142.5	4462.0	3428.7	2912.1	2750.3	2640.7	2541.5	2437.2	2421.5
40°	7687.2	7410.6	6210.3	4128.0	3047.8	2614.6	2442.4	2301.5	2134.5	1951.8	1930.9
42.5°	8407.4	7995.1	6241.6	3757.5	2713.8	2369.3	2155.3	1977.9	1790.0	1649.1	1623.0
45°	9185.0	8626.6	6215.5	3402.6	2442.4	2160.6	1920.5	1727.4	1576.1	1476.9	1456.0
47.5°	9941.7	9352.0	6142.5	3120.8	2233.6	1983.1	1737.8	1560.4	1445.6	1336.0	1309.9
50°	10912.4	10046.1	6053.8	2901.6	2004.0	1805.7	1623.0	1435.2	1304.7	1252.5	1242.1
52.5°	11987.5	10740.2	5949.4	2625.0	1779.6	1664.8	1550.0	1383.0	1341.2	1242.1	1226.4
55°	13151.3	11564.8	5928.5	2275.4	1581.3	1565.6	1476.9	1429.9	1440.4	1242.1	1216.0
57.5°	14377.7	12446.7	5975.5	1925.7	1419.5	1476.9	1508.2	1471.7	1456.0	1268.2	1216.0
60°	15656.3	13297.4	5834.6	1602.2	1294.3	1403.8	1544.8	1450.8	1336.0	1257.7	1221.2
62.5°	16898.3	14012.4	5224.0	1372.5	1200.3	1383.0	1523.9	1372.5	1242.1	1242.1	1226.4
65°	17801.2	14330.7	4086.3	1205.5	1137.7	1356.9	1487.3	1320.3	1216.0	1252.5	1231.6
67.5°	17905.5	14001.9	2745.1	1075.1	1085.5	1309.9	1403.8	1273.4	1189.9	1283.8	1252.5
70°	17263.6	13146.0	1680.4	975.9	1017.7	1226.4	1330.8	1226.4	1153.3	1257.7	1210.8
72.5°	15598.9	11549.1	1184.7	892.4	944.6	1148.1	1262.9	1184.7	1101.2	1137.7	1090.7
75°	12796.4	8950.2	939.4	814.1	871.5	1075.1	1205.5	1122.0	1038.5	1022.9	991.6
77.5°	9065.0	5735.4	756.7	751.5	793.3	986.3	1127.3	1049.0	965.5	934.2	913.3
80°	5213.5	2812.9	652.3	678.4	720.2	897.6	1033.3	965.5	887.2	840.2	808.9
82.5°	1993.6	981.1	574.1	589.7	636.7	803.7	939.4	882.0	803.7	845.4	709.8
85°	647.1	537.5	469.7	485.3	532.3	668.0	829.8	782.8	694.1	615.8	568.8
87.5°	287.0	292.3	250.5	276.6	334.0	443.6	605.4	574.1	506.2	422.7	407.1
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)