

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: P381130

Luminaire Tested: **PRV-XL-PA4A-740-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381130
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-PA4A-740-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34031 lumens
Efficiency: N/A
Efficacy: 138.9 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

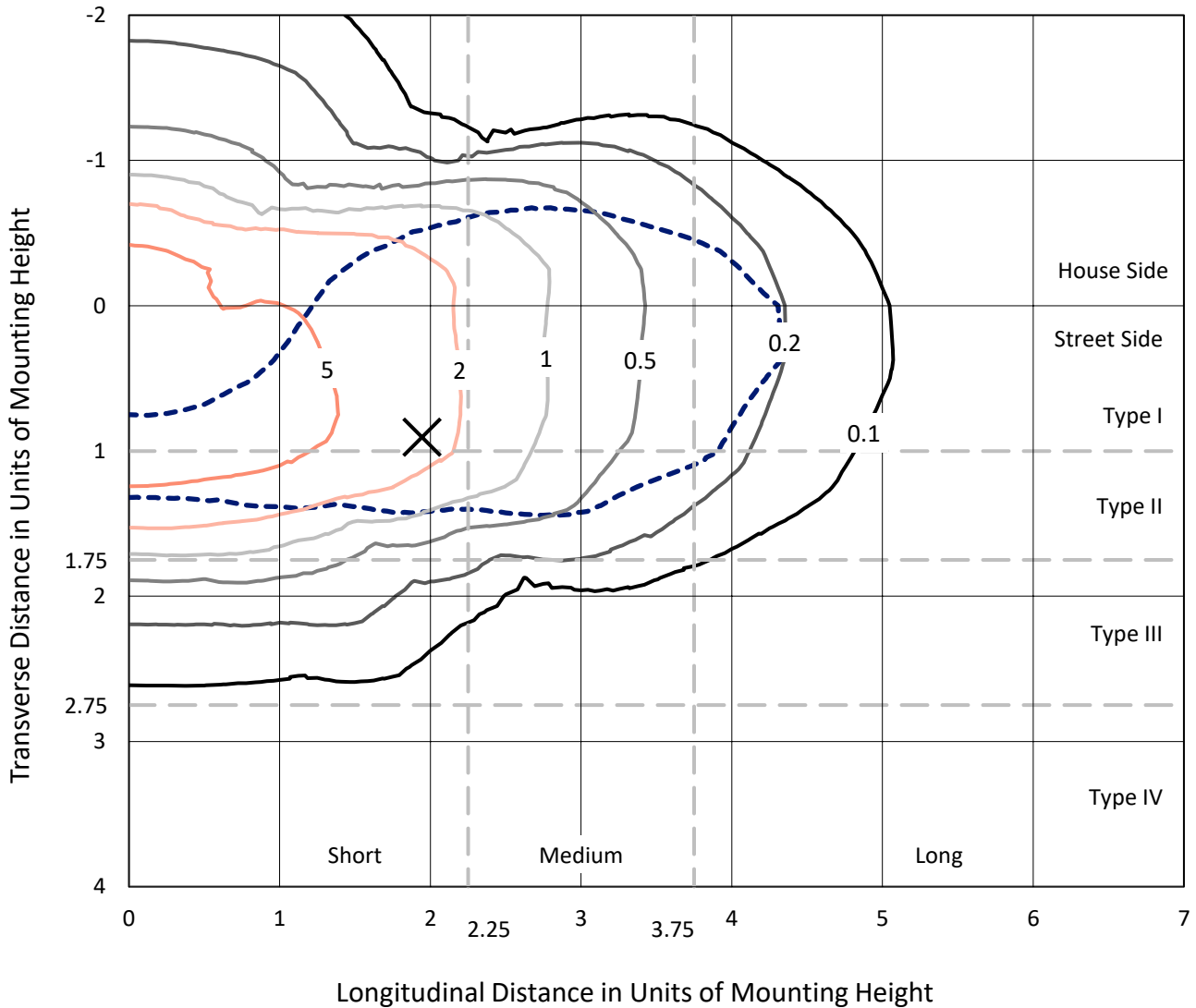
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

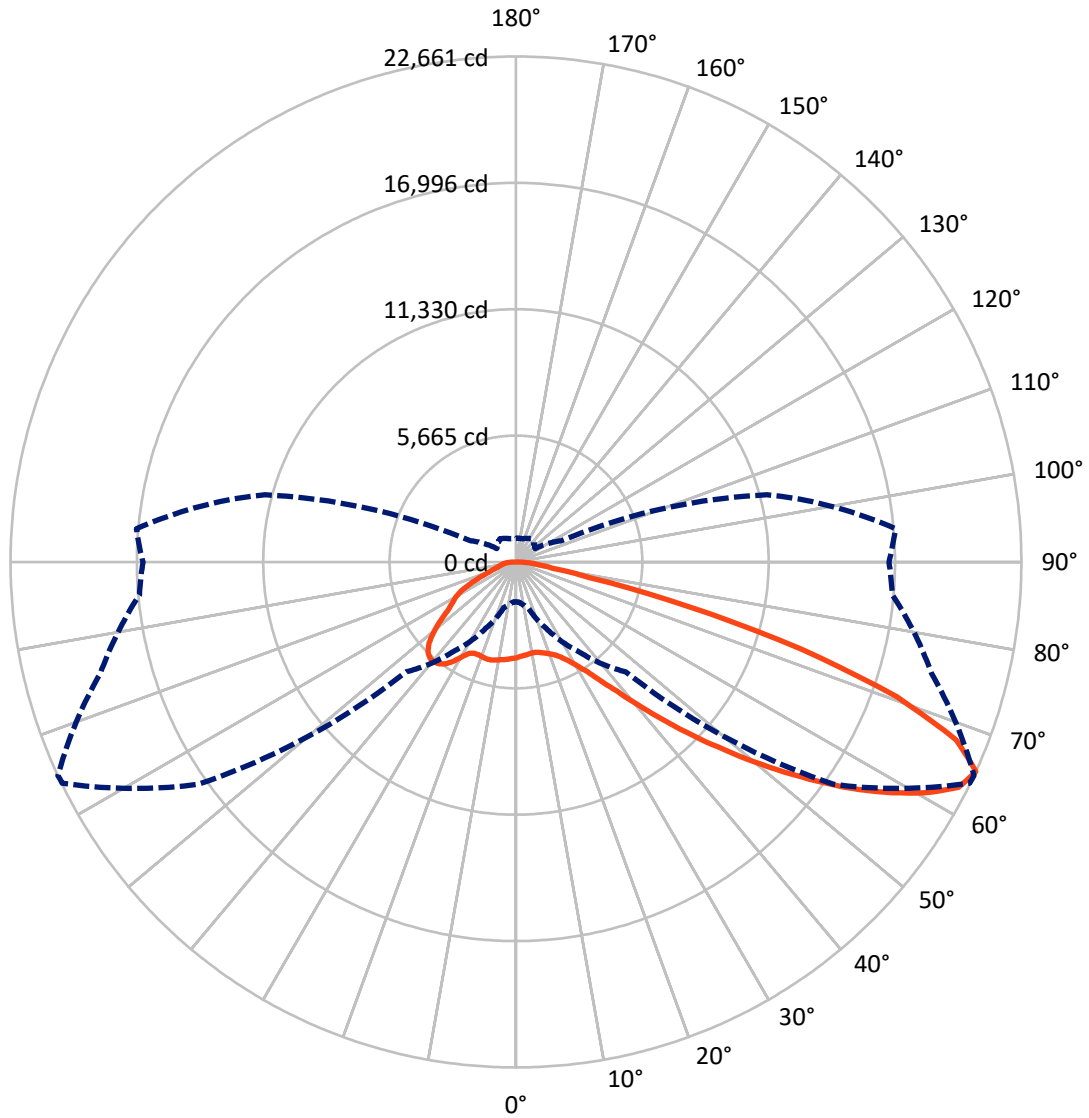
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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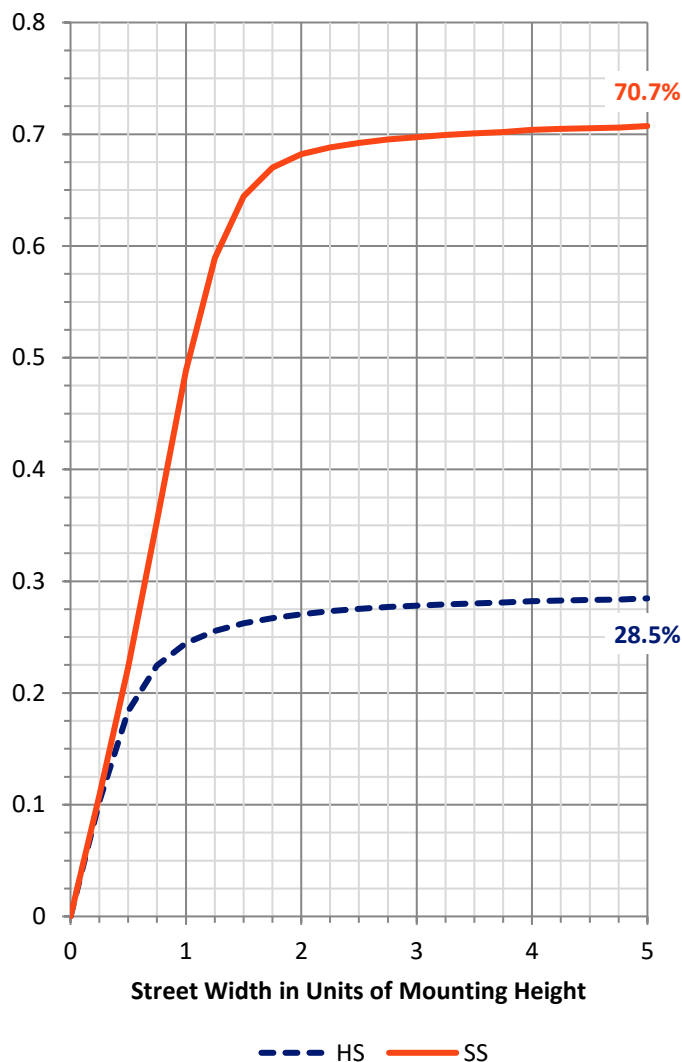
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.9	0.0	9838.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	24192.1	0.0	24192.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	34031.0	0.0	34031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.7	1.2
10°-20°	1223.1	3.6
20°-30°	2172.7	6.4
30°-40°	3675.6	10.8
40°-50°	6398.5	18.8
50°-60°	8268.9	24.3
60°-70°	7235.7	21.3
70°-80°	3935.7	11.6
80°-90°	711.1	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°	34031.0	100.0
0°-180°	34031.0	100.0

Coefficient of Utilization



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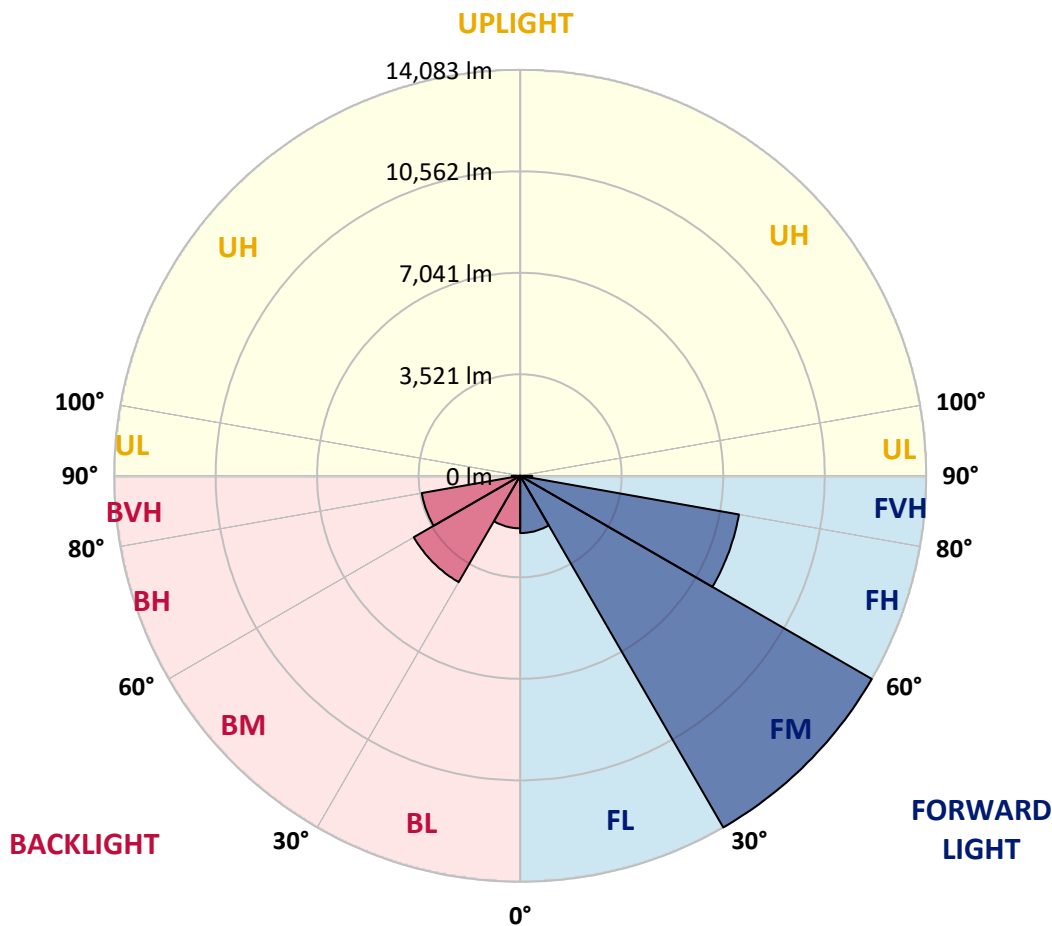
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.6	5.8			
FM (30°-60°)	14083.0	41.4			
FH (60°-80°)	7705.1	22.6			G4/12000
FVH (80°-90°)	418.5	1.2			G3/500
BL (0°-30°)	1819.8	5.3	B3/2500		
BM (30°-60°)	4260.0	12.5	B3/5000		
BH (60°-80°)	3466.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	292.7	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°	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1
2.5°	4224.0	4219.5	4210.6	4219.5	4224.0	4233.0	4228.5	4237.4	4233.0	4246.4	4268.8
5°	4116.5	4107.5	4103.1	4125.5	4138.9	4161.3	4170.2	4201.6	4197.1	4219.5	4255.4
7.5°	3995.6	3995.6	3991.1	4017.9	4035.9	4076.2	4107.5	4161.3	4165.8	4206.1	4246.4
10°	3901.5	3906.0	3901.5	3923.9	3950.8	4000.0	4053.8	4129.9	4134.4	4192.6	4233.0
12.5°	3865.7	3865.7	3865.7	3897.0	3932.8	4000.0	4062.7	4143.4	4152.3	4215.0	4250.9
15°	3914.9	3919.4	3910.4	3941.8	3982.1	4062.7	4121.0	4206.1	4215.0	4273.3	4295.7
17.5°	4089.6	4107.5	4085.1	4103.1	4094.1	4156.8	4210.6	4295.7	4300.1	4349.4	4358.4
20°	4434.5	4452.4	4416.6	4394.2	4313.6	4309.1	4331.5	4398.7	4398.7	4430.0	4407.6
22.5°	4967.6	4985.5	4922.8	4837.7	4645.1	4551.0	4501.7	4533.1	4528.6	4542.0	4483.8
25°	5675.3	5670.8	5594.7	5437.9	5128.8	4900.4	4779.4	4730.2	4730.2	4703.3	4631.6
27.5°	6553.2	6486.1	6351.7	6163.5	5733.5	5415.5	5155.7	5030.3	5007.9	4927.2	4792.9
30°	7489.4	7440.1	7247.5	6974.3	6477.1	6069.5	5639.5	5388.6	5375.2	5200.5	4998.9
32.5°	8591.3	8510.7	8295.7	7968.7	7373.0	6799.6	6262.1	5881.3	5858.9	5581.2	5303.5
35°	10006.8	9939.6	9523.0	9196.0	8430.1	7677.5	7041.5	6535.3	6517.4	6177.0	5823.1
37.5°	11704.5	11529.8	11126.6	10513.0	9706.7	8815.3	8009.0	7373.0	7350.6	6974.3	6526.4
40°	13218.5	13061.7	12703.3	12139.0	11274.4	10284.5	9191.6	8421.1	8398.7	7941.8	7377.4
42.5°	14338.3	14230.8	13997.9	13670.9	13052.7	12452.5	10701.1	9688.8	9648.4	9057.2	8353.9
45°	14987.8	14902.7	14768.3	14848.9	14840.0	14728.0	12501.8	11198.3	11068.4	10302.4	9442.4
47.5°	14831.0	14754.9	14808.6	15435.7	16300.2	16949.7	14598.1	12743.7	12569.0	11570.1	10602.5
50°	13697.8	13729.1	14011.3	15211.8	17151.3	18593.6	16922.9	14504.0	14271.1	12846.7	11704.5
52.5°	11632.8	11708.9	12394.3	14074.0	17057.2	19659.7	19023.7	16322.6	16013.6	14091.9	12707.8
55°	9240.8	9433.4	10320.3	12085.2	15829.9	19735.9	20609.3	18150.2	17809.8	15261.0	13581.3
57.5°	6835.4	7122.1	8147.9	9769.4	13478.3	18530.9	21402.2	19897.1	19485.0	16421.2	14504.0
60°	4336.0	4510.7	5693.2	7605.9	10315.9	15583.5	21299.2	21384.3	21025.9	17576.8	15467.1
62.5°	2768.2	2853.3	3449.1	5424.5	7211.7	11538.7	20174.8	22508.6	22266.7	18629.5	16380.9
65°	1778.3	1814.1	2118.7	3337.1	4909.3	6965.3	17375.3	22629.5	22660.9	19287.9	16945.3
67.5°	1446.8	1464.7	1576.7	2060.5	3471.5	3847.7	12103.1	20909.5	21290.2	19117.7	16752.6
70°	1316.9	1339.3	1455.8	1643.9	2687.6	2656.2	5858.9	17496.2	18118.8	18136.8	15897.1
72.5°	1110.9	1142.2	1299.0	1554.3	2078.4	2096.3	2481.5	12461.5	13379.7	16210.6	14611.5
75°	927.2	945.1	1079.5	1370.7	1760.4	1675.3	1742.5	6607.0	7932.9	12999.0	13245.3
77.5°	752.5	770.4	869.0	1093.0	1563.3	1303.5	1370.7	2736.9	3381.9	8824.3	10826.5
80°	537.5	555.4	667.4	851.1	1182.5	1173.6	1016.8	1509.5	1639.4	4770.5	7032.5
82.5°	385.2	398.7	506.2	609.2	819.7	1178.1	766.0	1025.8	1075.0	2114.2	2835.4
85°	259.8	259.8	349.4	403.1	528.6	743.6	618.1	694.3	725.6	1003.4	766.0
87.5°	112.0	112.0	188.1	206.0	277.7	344.9	461.4	349.4	358.3	542.0	313.6
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°	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1	4300.1
2.5°	4282.2	4286.7	4295.7	4322.5	4340.5	4367.3	4380.8	4398.7	4398.7	4389.7	4394.2
5°	4273.3	4286.7	4318.1	4367.3	4398.7	4448.0	4483.8	4510.7	4519.6	4510.7	4515.2
7.5°	4268.8	4291.2	4344.9	4416.6	4461.4	4524.1	4573.4	4604.7	4627.1	4618.2	4622.7
10°	4255.4	4291.2	4358.4	4448.0	4515.2	4577.9	4622.7	4636.1	4649.5	4640.6	4636.1
12.5°	4273.3	4313.6	4385.3	4492.8	4568.9	4618.2	4631.6	4609.2	4577.9	4559.9	4555.5
15°	4309.1	4349.4	4421.1	4533.1	4600.3	4618.2	4586.8	4515.2	4443.5	4403.2	4398.7
17.5°	4358.4	4385.3	4443.5	4542.0	4595.8	4573.4	4510.7	4425.6	4371.8	4340.5	4344.9
20°	4389.7	4389.7	4434.5	4510.7	4555.5	4537.5	4461.4	4367.3	4282.2	4241.9	4228.5
22.5°	4434.5	4412.1	4416.6	4483.8	4546.5	4519.6	4358.4	4192.6	4071.7	4026.9	4022.4
25°	4555.5	4492.8	4452.4	4492.8	4640.6	4421.1	4098.6	3906.0	3794.0	3753.7	3758.1
27.5°	4703.3	4618.2	4533.1	4600.3	4716.7	4197.1	3767.1	3547.6	3480.4	3449.1	3462.5
30°	4851.1	4739.1	4627.1	4869.0	4663.0	3847.7	3341.6	3126.6	3068.3	3045.9	3063.9
32.5°	5124.3	4940.7	4806.3	5227.4	4497.2	3449.1	2880.2	2683.1	2629.4	2602.5	2593.5
35°	5581.2	5348.3	5213.9	5540.9	4264.3	3005.6	2459.1	2320.3	2262.1	2203.8	2194.9
37.5°	6239.7	5957.5	5836.6	5720.1	3937.3	2566.6	2136.6	2042.6	1957.5	1867.9	1863.4
40°	7028.0	6660.7	6571.2	5800.7	3484.9	2154.6	1912.7	1823.1	1715.6	1630.5	1635.0
42.5°	7937.4	7467.0	7274.4	5778.3	2925.0	1935.1	1751.4	1652.9	1558.8	1482.7	1478.2
45°	8909.4	8376.3	7932.9	5621.5	2369.6	1782.8	1652.9	1536.4	1442.3	1357.2	1348.3
47.5°	9984.4	9388.6	8542.1	5316.9	1957.5	1675.3	1594.6	1428.9	1343.8	1290.0	1290.0
50°	11068.4	10356.2	9102.0	4855.6	1715.6	1594.6	1509.5	1370.7	1303.5	1258.7	1258.7
52.5°	11995.6	11364.0	9563.3	4304.6	1563.3	1527.4	1451.3	1343.8	1272.1	1231.8	1227.3
55°	12896.0	12300.2	9975.4	3758.1	1437.9	1437.9	1437.9	1321.4	1240.8	1204.9	1200.5
57.5°	13791.8	13285.7	10405.5	3399.8	1325.9	1361.7	1411.0	1294.5	1213.9	1182.5	1178.1
60°	14804.1	14468.2	10902.7	3149.0	1227.3	1281.1	1375.2	1263.2	1169.1	1142.2	1137.7
62.5°	15879.2	15879.2	11355.1	2795.1	1137.7	1213.9	1321.4	1222.9	1128.8	1106.4	1101.9
65°	16721.3	17084.1	11646.2	2266.5	1048.2	1146.7	1258.7	1169.1	1075.0	1070.6	1061.6
67.5°	16819.8	17388.7	11462.6	1711.1	967.5	1075.0	1196.0	1110.9	1021.3	1021.3	1007.8
70°	16112.1	16689.9	10889.2	1281.1	909.3	1003.4	1115.4	1039.2	954.1	963.1	940.7
72.5°	14929.6	15072.9	9464.8	1012.3	842.1	927.2	1016.8	958.6	882.4	882.4	851.1
75°	13370.8	12573.4	6875.8	846.6	761.5	837.6	918.3	869.0	801.8	779.4	761.5
77.5°	10642.9	9110.9	3995.6	730.1	694.3	752.5	806.3	770.4	712.2	662.9	662.9
80°	6486.1	5339.3	1764.9	631.6	613.7	658.5	694.3	654.0	604.7	555.4	542.0
82.5°	2468.1	2060.5	855.5	542.0	537.5	564.4	591.3	551.0	515.1	492.7	425.5
85°	676.4	622.6	586.8	452.4	443.5	439.0	470.3	452.4	403.1	331.5	295.6
87.5°	255.3	291.2	318.0	277.7	295.6	273.2	313.6	286.7	255.3	165.7	147.8
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)