

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: P381123

Luminaire Tested: **PRV-XL-PA4B-730-U-T2U**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381123
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-730-U-T2U
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 36107 lumens
Efficiency: N/A
Efficacy: 119.2 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

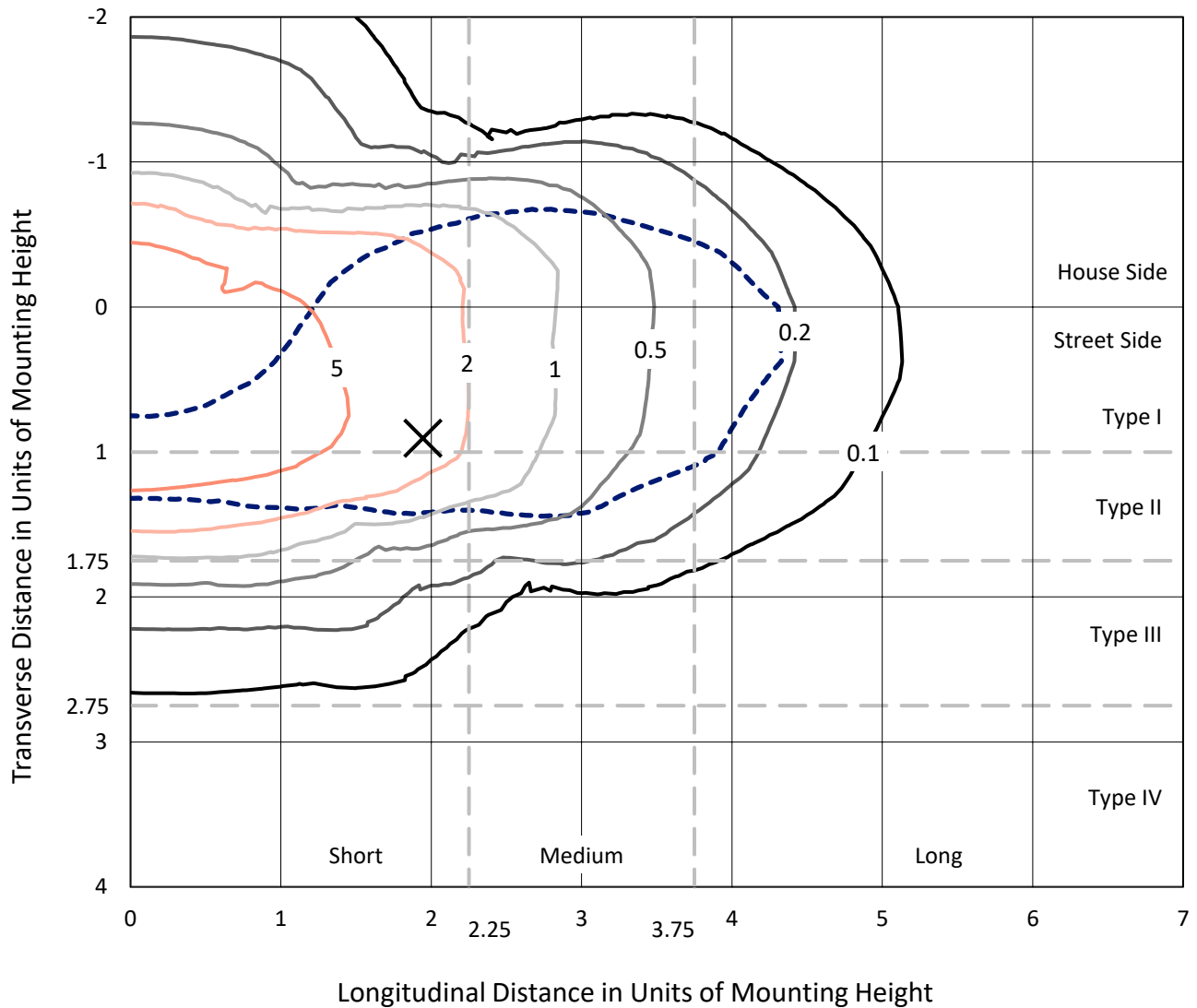
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

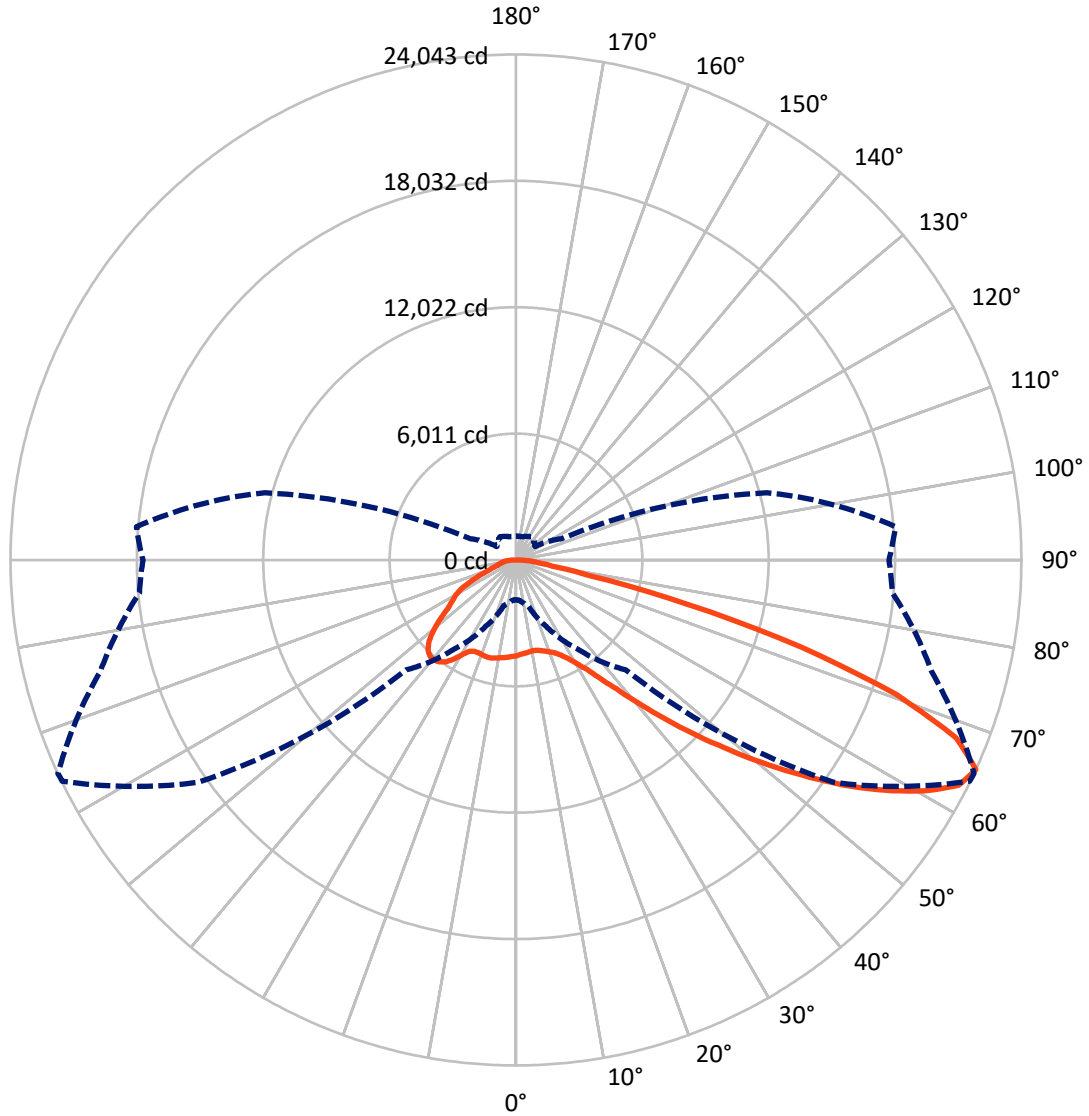
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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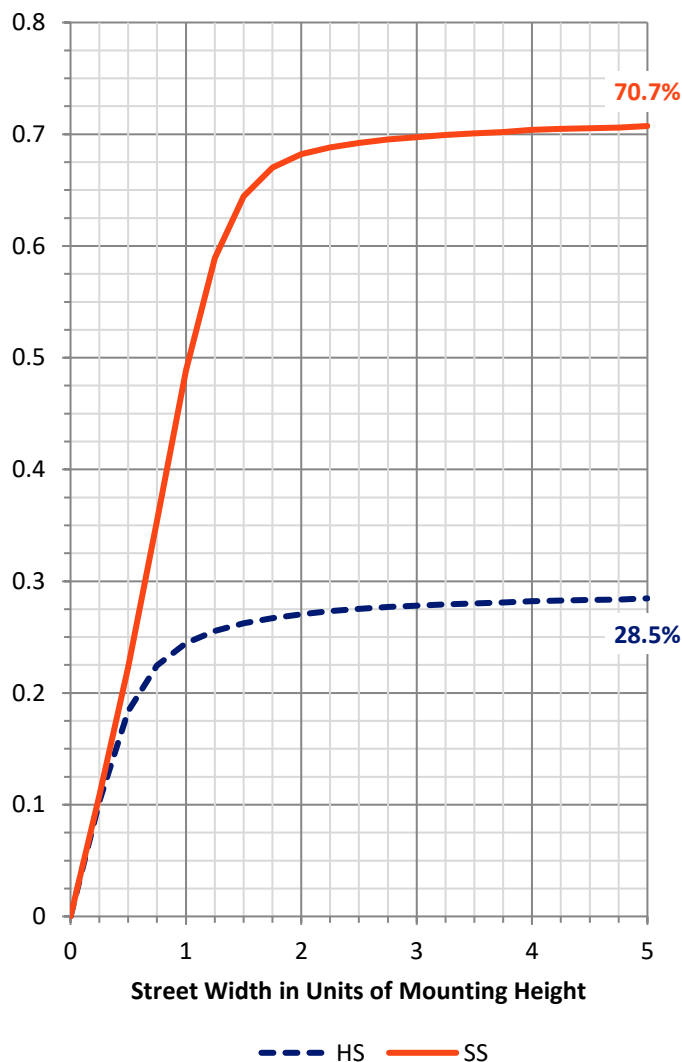
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10439.1	0.0	10439.1
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	25667.9	0.0	25667.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	36107.0	0.0	36107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.7	1.2
10°-20°	1297.7	3.6
20°-30°	2305.2	6.4
30°-40°	3899.8	10.8
40°-50°	6788.8	18.8
50°-60°	8773.3	24.3
60°-70°	7677.1	21.3
70°-80°	4175.8	11.6
80°-90°	754.5	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°	36107.0	100.0
0°-180°	36107.0	100.0

Coefficient of Utilization



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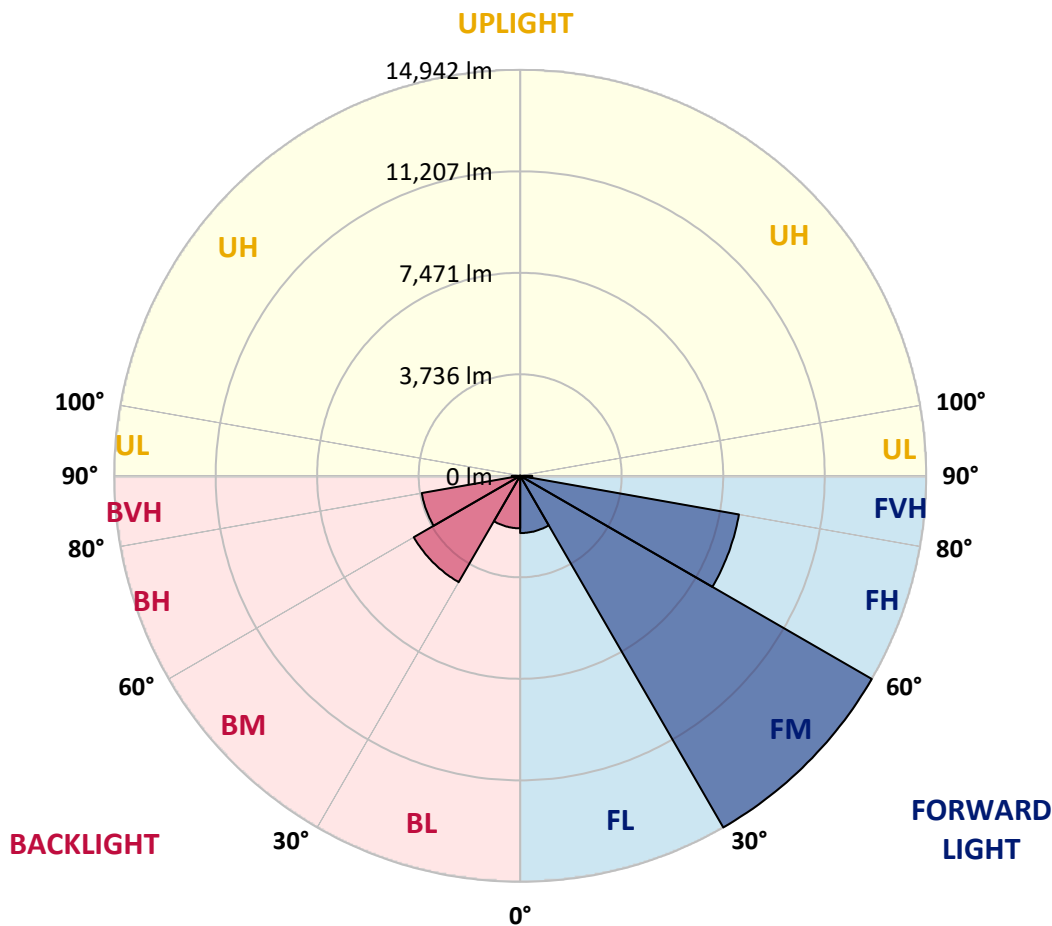
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.7	5.8			
FM (30°-60°)	14942.1	41.4			
FH (60°-80°)	8175.1	22.6			G4/12000
FVH (80°-90°)	444.0	1.2			G3/500
BL (0°-30°)	1930.9	5.3	B3/2500		
BM (30°-60°)	4519.9	12.5	B3/5000		
BH (60°-80°)	3677.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	310.5	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°	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5
2.5°	4481.7	4476.9	4467.4	4476.9	4481.7	4491.2	4486.4	4495.9	4491.2	4505.4	4529.2
5°	4367.6	4358.1	4353.4	4377.1	4391.4	4415.1	4424.6	4457.9	4453.2	4476.9	4514.9
7.5°	4239.3	4239.3	4234.5	4263.1	4282.1	4324.8	4358.1	4415.1	4419.9	4462.7	4505.4
10°	4139.5	4144.2	4139.5	4163.3	4191.8	4244.0	4301.1	4381.9	4386.6	4448.4	4491.2
12.5°	4101.5	4101.5	4101.5	4134.7	4172.8	4244.0	4310.6	4396.1	4405.6	4472.2	4510.2
15°	4153.7	4158.5	4149.0	4182.3	4225.0	4310.6	4372.4	4462.7	4472.2	4534.0	4557.7
17.5°	4339.1	4358.1	4334.3	4353.4	4343.8	4410.4	4467.4	4557.7	4562.5	4614.7	4624.3
20°	4705.0	4724.1	4686.0	4662.3	4576.7	4572.0	4595.7	4667.0	4667.0	4700.3	4676.5
22.5°	5270.6	5289.6	5223.1	5132.8	4928.4	4828.6	4776.3	4809.6	4804.8	4819.1	4757.3
25°	6021.5	6016.8	5936.0	5769.6	5441.7	5199.3	5071.0	5018.7	5018.7	4990.2	4914.2
27.5°	6953.0	6881.7	6739.1	6539.5	6083.3	5745.9	5470.2	5337.1	5313.4	5227.8	5085.2
30°	7946.3	7894.0	7689.7	7399.8	6872.2	6439.7	5983.5	5717.3	5703.1	5517.7	5303.9
32.5°	9115.4	9029.9	8801.8	8454.8	7822.7	7214.4	6644.1	6240.1	6216.4	5921.7	5627.0
35°	10617.2	10546.0	10104.0	9757.0	8944.3	8145.9	7471.0	6934.0	6915.0	6553.8	6178.3
37.5°	12418.5	12233.1	11805.4	11154.3	10298.8	9353.1	8497.6	7822.7	7799.0	7399.8	6924.5
40°	14024.8	13858.5	13478.3	12879.5	11962.2	10911.9	9752.3	8934.8	8911.1	8426.3	7827.5
42.5°	15213.0	15098.9	14851.8	14504.8	13849.0	13212.1	11353.9	10279.8	10237.0	9609.7	8863.5
45°	15902.1	15811.8	15669.2	15754.8	15745.3	15626.5	13264.4	11881.4	11743.6	10930.9	10018.4
47.5°	15735.8	15655.0	15712.0	16377.4	17294.6	17983.7	15488.6	13521.1	13335.7	12275.9	11249.3
50°	14533.4	14566.6	14866.0	16139.7	18197.6	19727.9	17955.2	15388.8	15141.7	13630.4	12418.5
52.5°	12342.4	12423.2	13150.4	14932.6	18097.8	20859.0	20184.2	17318.4	16990.4	14951.6	13483.0
55°	9804.6	10008.9	10949.9	12822.4	16795.6	20939.8	21866.6	19257.4	18896.2	16192.0	14409.8
57.5°	7252.4	7556.6	8644.9	10365.4	14300.5	19661.4	22707.8	21110.9	20673.7	17422.9	15388.8
60°	4600.5	4785.8	6040.5	8069.9	10945.2	16534.2	22598.5	22688.8	22308.6	18649.1	16410.6
62.5°	2937.1	3027.4	3659.5	5755.4	7651.6	12242.6	21405.6	23881.7	23625.0	19765.9	17380.1
65°	1886.8	1924.8	2248.0	3540.7	5208.8	7390.2	18435.2	24010.0	24043.3	20464.6	17979.0
67.5°	1535.1	1554.1	1672.9	2186.2	3683.2	4082.5	12841.4	22185.0	22589.0	20284.0	17774.6
70°	1397.3	1421.0	1544.6	1744.2	2851.5	2818.3	6216.4	18563.5	19224.1	19243.2	16866.9
72.5°	1178.6	1211.9	1378.2	1649.1	2205.2	2224.2	2632.9	13221.6	14195.9	17199.6	15502.9
75°	983.8	1002.8	1145.4	1454.3	1867.8	1777.5	1848.7	7010.0	8416.8	13792.0	14053.3
77.5°	798.4	817.4	922.0	1159.6	1658.6	1383.0	1454.3	2903.8	3588.2	9362.6	11487.0
80°	570.3	589.3	708.1	903.0	1254.7	1245.2	1078.8	1601.6	1739.4	5061.5	7461.5
82.5°	408.7	423.0	537.0	646.3	869.7	1249.9	812.7	1088.3	1140.6	2243.2	3008.4
85°	275.6	275.6	370.7	427.7	560.8	788.9	655.9	736.6	769.9	1064.6	812.7
87.5°	118.8	118.8	199.6	218.6	294.7	365.9	489.5	370.7	380.2	575.1	332.7
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°	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5	4562.5
2.5°	4543.5	4548.2	4557.7	4586.2	4605.2	4633.8	4648.0	4667.0	4667.0	4657.5	4662.3
5°	4534.0	4548.2	4581.5	4633.8	4667.0	4719.3	4757.3	4785.8	4795.3	4785.8	4790.6
7.5°	4529.2	4553.0	4610.0	4686.0	4733.6	4800.1	4852.4	4885.6	4909.4	4899.9	4904.7
10°	4514.9	4553.0	4624.3	4719.3	4790.6	4857.1	4904.7	4918.9	4933.2	4923.7	4918.9
12.5°	4534.0	4576.7	4652.8	4766.8	4847.6	4899.9	4914.2	4890.4	4857.1	4838.1	4833.4
15°	4572.0	4614.7	4690.8	4809.6	4880.9	4899.9	4866.6	4790.6	4714.5	4671.8	4667.0
17.5°	4624.3	4652.8	4714.5	4819.1	4876.1	4852.4	4785.8	4695.5	4638.5	4605.2	4610.0
20°	4657.5	4657.5	4705.0	4785.8	4833.4	4814.4	4733.6	4633.8	4543.5	4500.7	4486.4
22.5°	4705.0	4681.3	4686.0	4757.3	4823.9	4795.3	4624.3	4448.4	4320.1	4272.6	4267.8
25°	4833.4	4766.8	4724.1	4766.8	4923.7	4690.8	4348.6	4144.2	4025.4	3982.7	3987.4
27.5°	4990.2	4899.9	4809.6	4880.9	5004.5	4453.2	3996.9	3764.0	3692.7	3659.5	3673.7
30°	5147.0	5028.2	4909.4	5166.0	4947.4	4082.5	3545.4	3317.3	3255.5	3231.7	3250.8
32.5°	5436.9	5242.1	5099.5	5546.2	4771.6	3659.5	3055.9	2846.8	2789.8	2761.2	2751.7
35°	5921.7	5674.6	5532.0	5878.9	4524.4	3189.0	2609.2	2461.8	2400.0	2338.3	2328.8
37.5°	6620.3	6320.9	6192.6	6069.0	4177.5	2723.2	2267.0	2167.2	2076.9	1981.8	1977.1
40°	7456.8	7067.1	6972.0	6154.6	3697.5	2286.0	2029.3	1934.3	1820.2	1729.9	1734.7
42.5°	8421.6	7922.5	7718.2	6130.8	3103.4	2053.1	1858.3	1753.7	1653.9	1573.1	1568.3
45°	9452.9	8887.3	8416.8	5964.5	2514.1	1891.5	1753.7	1630.1	1530.3	1440.0	1430.5
47.5°	10593.5	9961.4	9063.2	5641.3	2076.9	1777.5	1691.9	1516.1	1425.8	1368.7	1368.7
50°	11743.6	10987.9	9657.2	5151.8	1820.2	1691.9	1601.6	1454.3	1383.0	1335.5	1335.5
52.5°	12727.4	12057.3	10146.7	4567.2	1658.6	1620.6	1539.8	1425.8	1349.7	1307.0	1302.2
55°	13682.6	13050.6	10584.0	3987.4	1525.6	1525.6	1525.6	1402.0	1316.5	1278.4	1273.7
57.5°	14633.2	14096.1	11040.2	3607.2	1406.8	1444.8	1497.1	1373.5	1287.9	1254.7	1249.9
60°	15707.2	15350.8	11567.8	3341.1	1302.2	1359.2	1459.0	1340.2	1240.4	1211.9	1207.2
62.5°	16847.9	16847.9	12047.8	2965.6	1207.2	1287.9	1402.0	1297.5	1197.6	1173.9	1169.1
65°	17741.3	18126.3	12356.7	2404.8	1112.1	1216.7	1335.5	1240.4	1140.6	1135.9	1126.4
67.5°	17845.9	18449.5	12161.8	1815.5	1026.6	1140.6	1268.9	1178.6	1083.6	1083.6	1069.3
70°	17095.0	17708.1	11553.5	1359.2	964.8	1064.6	1183.4	1102.6	1012.3	1021.8	998.0
72.5°	15840.3	15992.4	10042.2	1074.1	893.5	983.8	1078.8	1017.0	936.3	936.3	903.0
75°	14186.4	13340.5	7295.2	898.2	807.9	888.7	974.3	922.0	850.7	826.9	807.9
77.5°	11292.1	9666.7	4239.3	774.7	736.6	798.4	855.5	817.4	755.7	703.4	703.4
80°	6881.7	5665.1	1872.5	670.1	651.1	698.6	736.6	693.9	641.6	589.3	575.1
82.5°	2618.7	2186.2	907.7	575.1	570.3	598.8	627.3	584.6	546.5	522.8	451.5
85°	717.6	660.6	622.6	480.0	470.5	465.8	499.0	480.0	427.7	351.7	313.7
87.5°	270.9	308.9	337.4	294.7	313.7	289.9	332.7	304.2	270.9	175.8	156.8
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)