

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: P380865

Luminaire Tested: **PRV-XL-PA3B-730-U-T2R**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-730-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27912 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

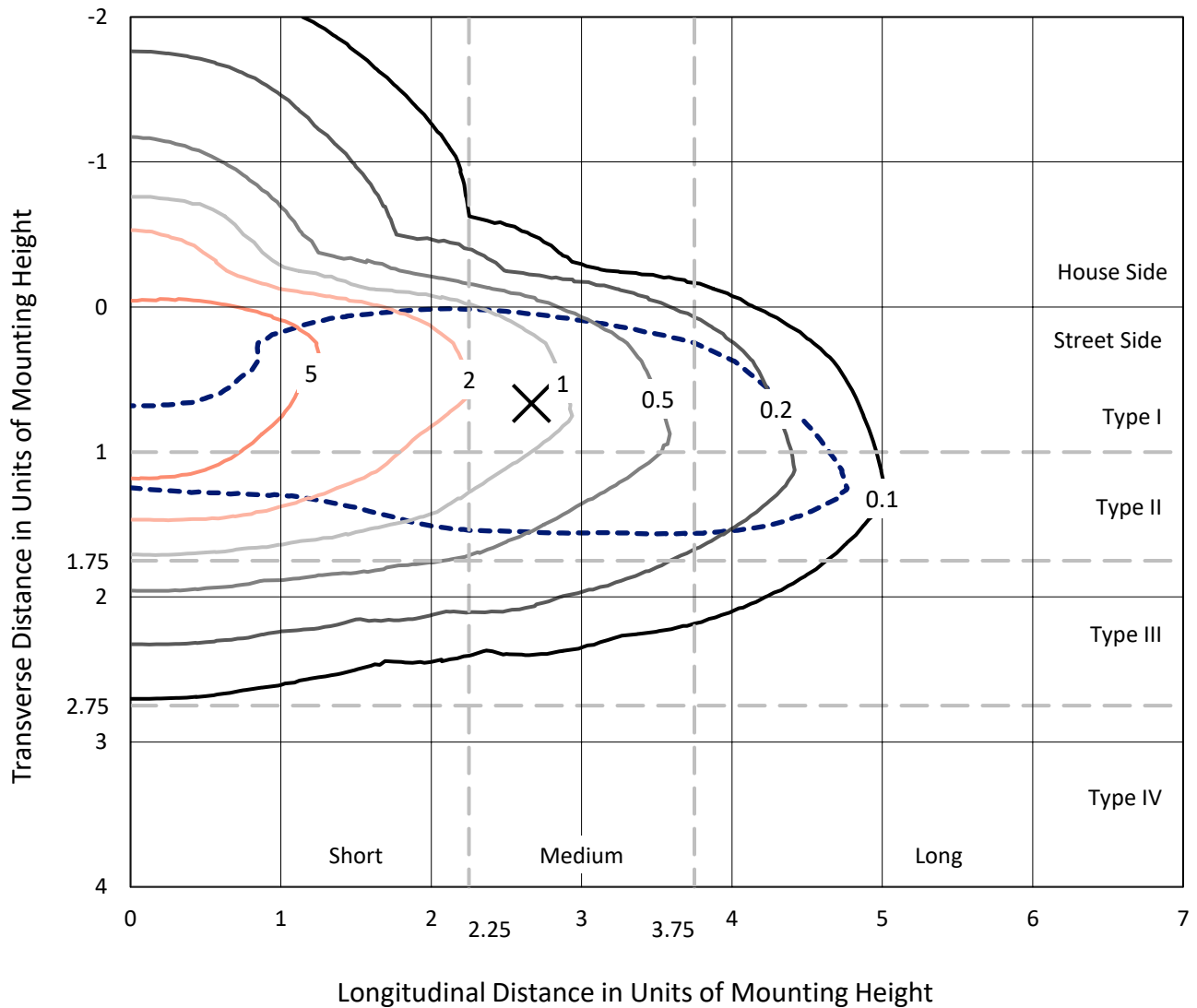
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

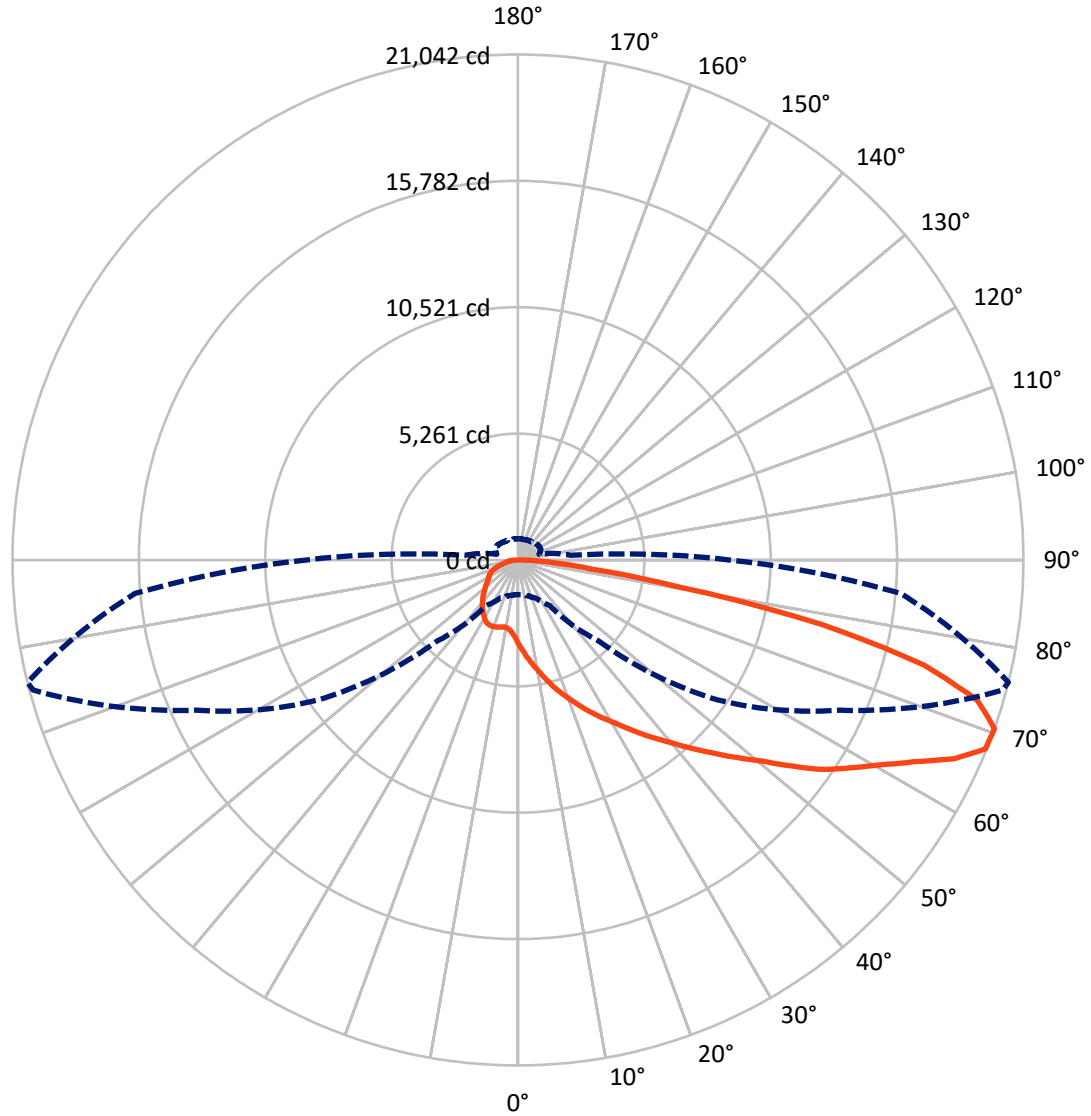
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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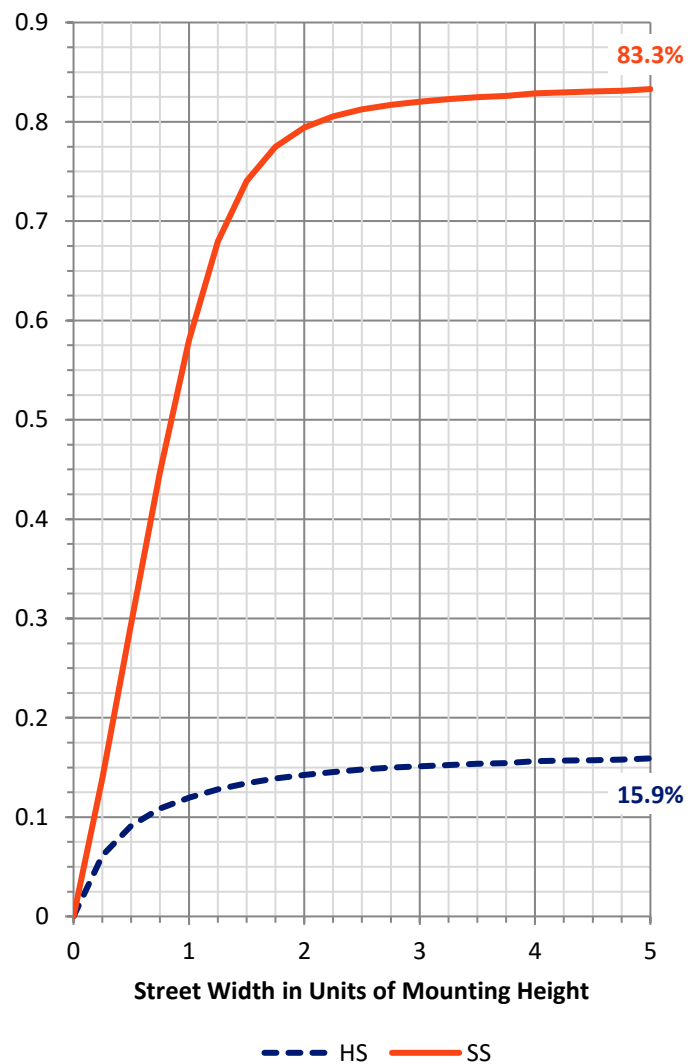
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4556.9	0.0	4556.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	23355.1	0.0	23355.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	27912.0	0.0	27912.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	1.3
10°-20°	1232.6	4.4
20°-30°	2205.3	7.9
30°-40°	3567.5	12.8
40°-50°	5160.9	18.5
50°-60°	5906.9	21.2
60°-70°	5433.7	19.5
70°-80°	3360.1	12.0
80°-90°	682.3	2.4
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°	27912.0	100.0
0°-180°	27912.0	100.0



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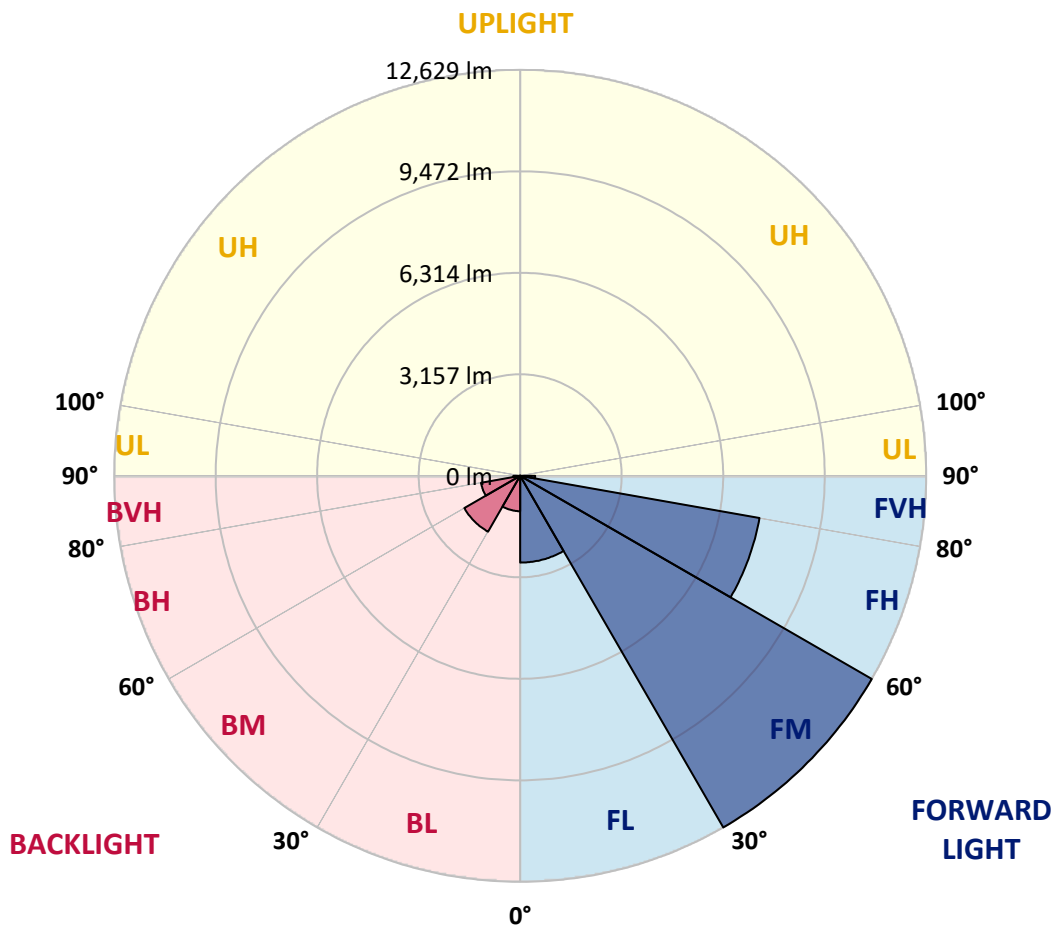
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.0	9.7			
FM (30°-60°)	12628.9	45.2			
FH (60°-80°)	7557.8	27.1			G4/12000
FVH (80°-90°)	468.4	1.7			G3/500
BL (0°-30°)	1100.6	3.9	B3/2500		
BM (30°-60°)	2006.4	7.2	B2/2500		
BH (60°-80°)	1236.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	213.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	4448.5	4415.4	4411.8	4360.4	4312.7	4184.2	4092.5	3931.0	3769.5	3765.8	3604.3
5°	5142.2	5109.1	5090.8	5028.4	4947.6	4778.8	4613.6	4364.1	4088.8	4070.4	3765.8
7.5°	5612.0	5582.6	5545.9	5520.2	5443.1	5292.7	5090.8	4793.5	4415.4	4378.7	3953.0
10°	5927.6	5909.3	5901.9	5883.6	5835.9	5714.8	5520.2	5204.6	4742.1	4701.7	4151.2
12.5°	6063.4	6056.1	6089.1	6140.5	6158.9	6111.2	5924.0	5626.7	5101.8	5057.8	4389.8
15°	5905.6	5913.0	5997.4	6173.6	6360.7	6463.5	6353.4	6063.4	5509.2	5446.8	4668.7
17.5°	5832.2	5843.2	5901.9	6070.8	6335.0	6654.4	6705.8	6478.2	5901.9	5813.9	4962.3
20°	5960.7	5975.4	6019.4	6151.5	6335.0	6676.4	6944.3	6874.6	6287.3	6195.6	5244.9
22.5°	6287.3	6305.7	6302.0	6386.4	6511.2	6746.1	7076.5	7249.0	6691.1	6588.3	5538.6
25°	6984.7	6970.0	6845.2	6804.9	6837.9	6988.4	7252.6	7608.7	7113.2	7010.4	5846.9
27.5°	7931.7	7913.3	7685.7	7480.2	7296.7	7362.7	7502.2	7898.6	7542.6	7425.1	6140.5
30°	8944.7	8922.7	8658.4	8324.4	7917.0	7821.5	7803.2	8151.9	7975.7	7850.9	6452.5
32.5°	9932.0	9913.6	9631.0	9242.0	8680.4	8394.1	8217.9	8434.5	8467.5	8346.4	6793.8
35°	10831.2	10831.2	10589.0	10126.5	9491.6	9058.5	8768.5	8783.2	9032.8	8893.3	7182.9
37.5°	11631.4	11627.7	11363.4	10908.3	10299.0	9803.5	9443.8	9205.3	9572.3	9451.2	7590.3
40°	12266.4	12240.7	12046.1	11649.7	11036.8	10545.0	10181.6	9700.8	10174.2	10064.1	8023.4
42.5°	12728.8	12714.1	12582.0	12237.0	11653.4	11190.9	10941.4	10324.7	10856.9	10746.8	8529.9
45°	12908.7	12938.0	12938.0	12611.4	12148.9	11726.8	11616.7	11011.1	11594.7	11484.6	9073.1
47.5°	12618.7	12695.8	12853.6	12875.6	12468.2	12181.9	12218.6	11701.1	12354.4	12295.7	9667.7
50°	11712.1	11855.3	12200.3	12824.2	12596.7	12530.6	12732.5	12405.8	13169.3	13150.9	10390.8
52.5°	9374.1	9722.8	10798.2	11917.7	12508.6	12692.1	13242.7	13198.6	14219.0	14248.3	11334.1
55°	7190.2	7322.4	8566.6	10471.5	11969.1	12640.7	13584.0	13973.1	15356.8	15393.5	12200.3
57.5°	5813.9	5901.9	6581.0	8566.6	10739.5	12361.8	13851.9	14424.5	16230.3	16325.8	12971.1
60°	4606.3	4734.8	5189.9	6555.3	9018.1	11690.1	14039.1	14927.4	17170.0	17313.1	13892.3
62.5°	3424.4	3486.8	3916.3	4855.9	7138.9	10482.6	13940.0	15474.2	18322.5	18495.0	15000.8
65°	2437.1	2492.2	2796.8	3453.8	5278.0	8849.2	13363.8	15881.7	19768.6	19944.8	16116.6
67.5°	1824.2	1846.2	2018.7	2415.1	3556.6	6874.6	12196.6	15811.9	20825.6	20983.5	16564.3
70°	1442.5	1449.8	1534.2	1747.1	2312.3	4786.2	10152.2	14787.9	20902.7	21042.2	15999.1
72.5°	1196.5	1192.9	1240.6	1343.4	1611.3	3028.0	7520.6	12886.6	19911.7	20007.1	14420.9
75°	987.3	994.7	1027.7	1086.4	1229.6	1996.7	4874.2	10280.7	17566.4	17463.6	12101.2
77.5°	829.5	825.8	840.5	891.9	994.7	1435.1	2855.5	7428.8	13018.8	12967.4	7942.7
80°	668.0	675.3	697.4	741.4	836.8	1093.8	1688.4	4635.7	6984.7	6797.5	3795.2
82.5°	447.8	517.5	561.6	613.0	723.1	807.5	1071.7	2356.4	3123.5	3075.8	1721.4
85°	212.9	282.6	418.4	477.1	587.3	506.5	726.7	1123.1	1563.6	1545.2	620.3
87.5°	44.0	44.0	223.9	267.9	363.4	216.6	403.7	488.2	756.1	708.4	253.3
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°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3508.9	3409.8	3211.6	3053.7	2892.2	2800.5	2686.7	2631.7	2620.6	2591.3	2613.3
5°	3571.3	3376.7	3002.4	2756.4	2591.3	2510.5	2470.2	2455.5	2451.8	2444.5	2444.5
7.5°	3655.7	3358.4	2870.2	2620.6	2514.2	2488.5	2499.5	2521.5	2525.2	2532.6	2528.9
10°	3758.5	3362.1	2796.8	2587.6	2536.2	2539.9	2576.6	2606.0	2620.6	2631.7	2628.0
12.5°	3901.6	3406.1	2785.8	2609.6	2587.6	2602.3	2639.0	2668.4	2683.0	2686.7	2686.7
15°	4088.8	3497.9	2811.5	2657.3	2639.0	2650.0	2672.0	2683.0	2686.7	2683.0	2683.0
17.5°	4294.3	3608.0	2848.2	2686.7	2657.3	2646.3	2639.0	2628.0	2606.0	2591.3	2591.3
20°	4492.5	3707.1	2866.6	2683.0	2631.7	2587.6	2543.6	2488.5	2451.8	2422.4	2422.4
22.5°	4690.7	3798.8	2866.6	2642.7	2561.9	2477.5	2385.7	2297.6	2242.6	2205.9	2205.9
25°	4899.9	3886.9	2844.5	2572.9	2451.8	2330.7	2205.9	2095.8	2040.7	2004.0	1996.7
27.5°	5076.1	3938.3	2785.8	2473.8	2316.0	2161.8	2018.7	1904.9	1864.5	1831.5	1831.5
30°	5263.3	3971.3	2675.7	2345.4	2161.8	1985.7	1838.9	1747.1	1703.0	1655.3	1651.7
32.5°	5472.5	3993.4	2550.9	2209.6	2004.0	1816.8	1692.0	1618.6	1523.2	1471.8	1464.5
35°	5714.8	4022.7	2418.8	2055.4	1846.2	1677.4	1603.9	1482.8	1391.1	1347.0	1343.4
37.5°	5971.7	4044.7	2275.6	1919.6	1703.0	1585.6	1512.2	1369.0	1288.3	1222.2	1214.9
40°	6243.3	4044.7	2128.8	1787.5	1589.3	1545.2	1405.7	1277.3	1141.5	1108.4	1101.1
42.5°	6544.3	4037.4	1982.0	1659.0	1482.8	1453.5	1343.4	1207.5	1137.8	1108.4	1101.1
45°	6863.6	4011.7	1842.5	1512.2	1372.7	1314.0	1229.6	1192.9	1163.5	1163.5	1163.5
47.5°	7226.9	3989.7	1684.7	1380.1	1292.0	1225.9	1163.5	1141.5	1137.8	1148.8	1159.8
50°	7693.1	3982.3	1552.6	1284.6	1229.6	1152.5	1145.2	1126.8	1130.5	1130.5	1130.5
52.5°	8258.3	3916.3	1427.8	1214.9	1167.2	1075.4	1097.4	1115.8	1123.1	1119.5	1115.8
55°	8673.1	3798.8	1321.3	1167.2	1123.1	1046.1	1075.4	1104.8	1112.1	1101.1	1101.1
57.5°	9047.4	3633.7	1236.9	1130.5	1093.8	1027.7	1060.7	1090.1	1082.8	1079.1	1075.4
60°	9476.9	3475.8	1170.8	1112.1	1064.4	1020.4	1049.7	1068.1	1057.1	1049.7	1046.1
62.5°	9943.0	3321.7	1123.1	1112.1	1042.4	1016.7	1038.7	1046.1	1024.0	1016.7	1016.7
65°	10159.6	3079.4	1071.7	1112.1	1031.4	1009.3	1016.7	1009.3	987.3	987.3	983.7
67.5°	9803.5	2679.4	1005.7	1097.4	1046.1	998.3	983.7	972.6	947.0	947.0	939.6
70°	8819.9	2202.2	910.2	1049.7	1049.7	994.7	939.6	913.9	884.6	895.6	880.9
72.5°	7535.3	1747.1	792.8	969.0	1027.7	991.0	891.9	851.5	825.8	836.8	814.8
75°	6103.8	1354.4	653.3	840.5	972.6	972.6	844.2	789.1	759.8	759.8	734.1
77.5°	3890.6	1002.0	532.2	697.4	873.5	947.0	803.8	719.4	675.3	664.3	646.0
80°	1926.9	704.7	436.8	554.2	745.1	888.2	774.4	638.6	576.2	554.2	521.2
82.5°	1024.0	488.2	348.7	433.1	594.6	800.1	737.7	550.6	473.5	440.4	403.7
85°	458.8	301.0	278.9	330.3	451.5	657.0	664.3	451.5	363.4	433.1	319.3
87.5°	168.8	135.8	135.8	168.8	260.6	275.3	469.8	290.0	231.2	157.8	124.8
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)