

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: P380873

Luminaire Tested: **PRV-XL-PA3B-740-U-T2R**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380873
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-740-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 30648 lumens
Efficiency: N/A
Efficacy: 131.0 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

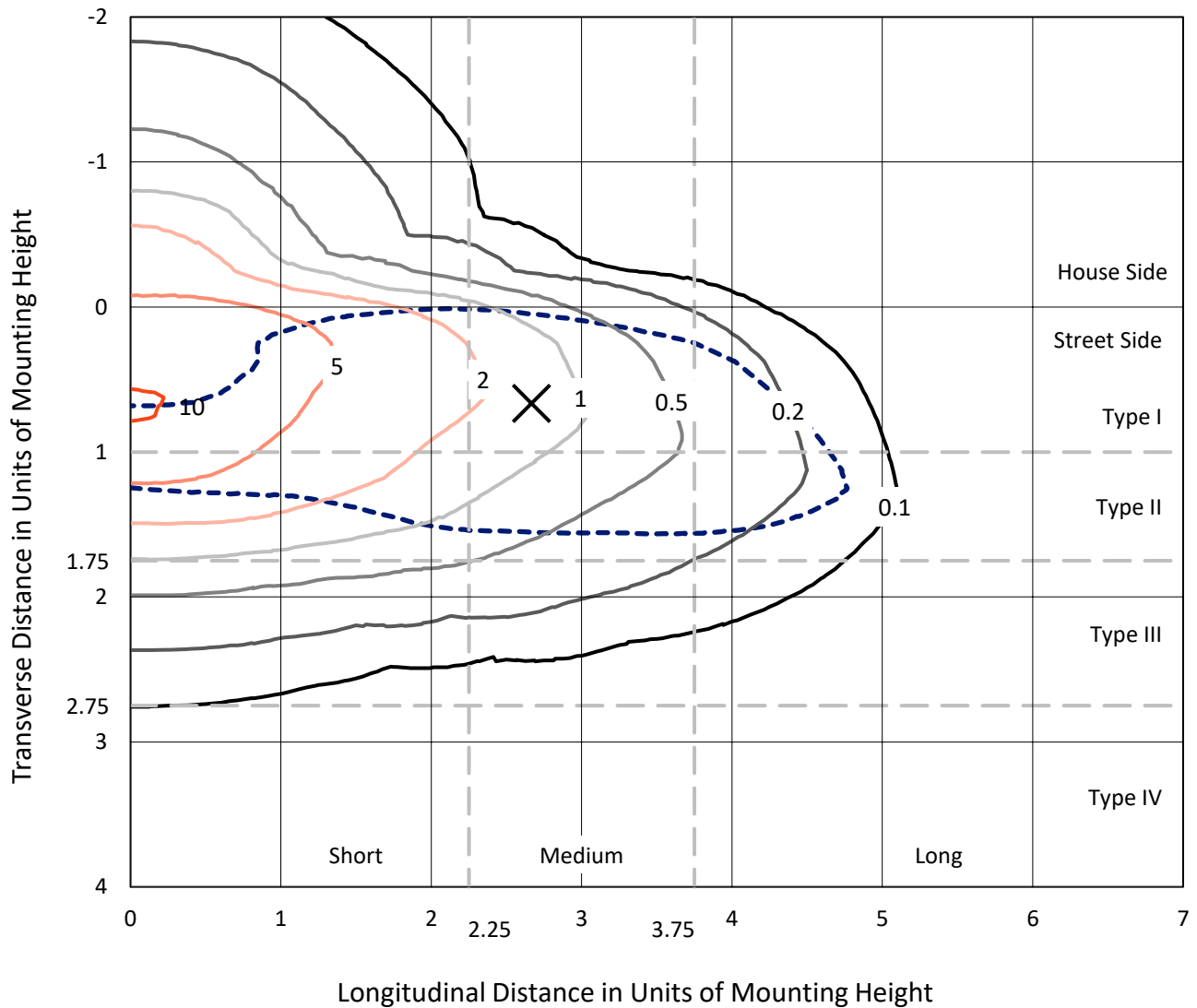
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

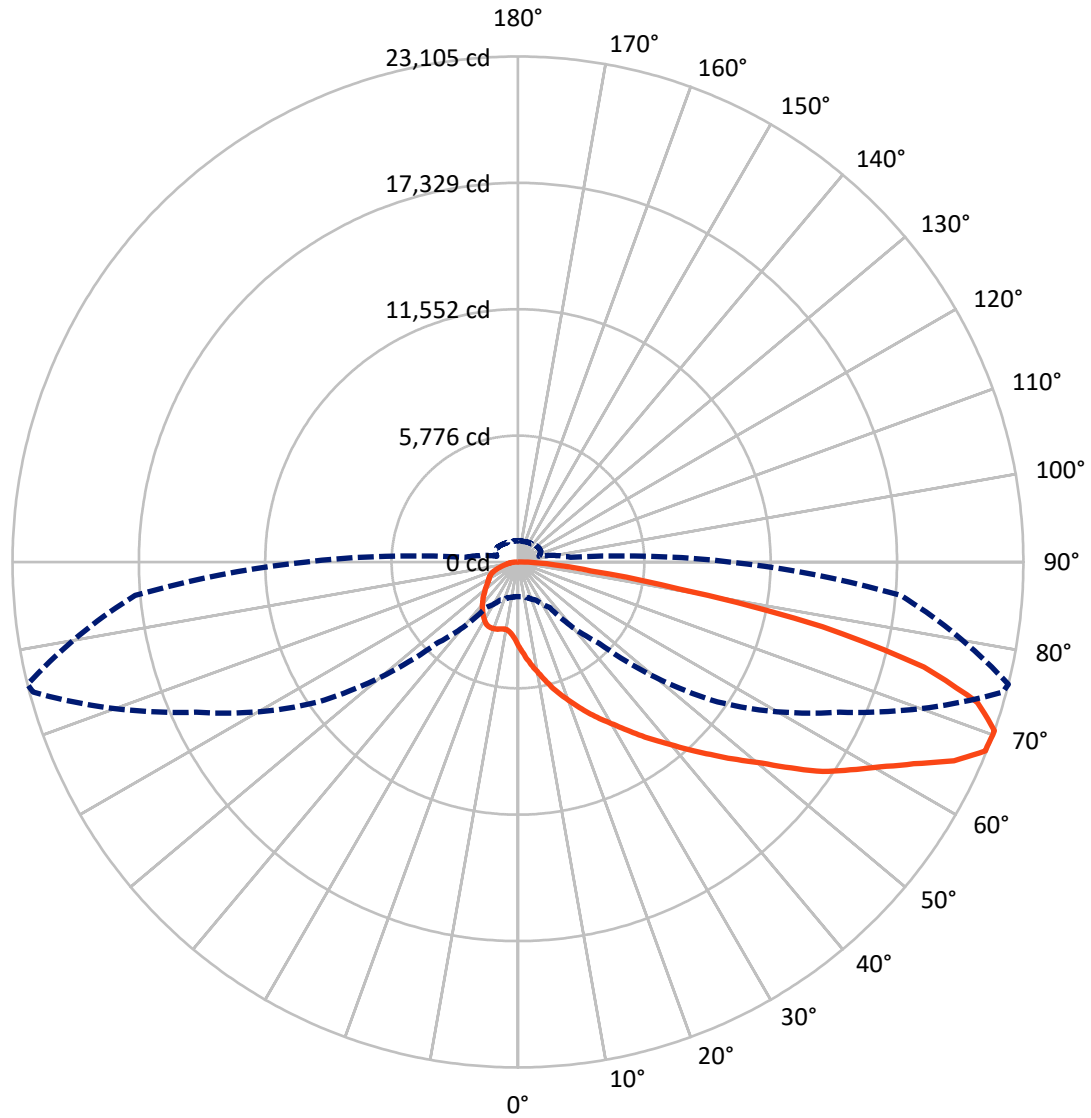
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	5003.6	0.0	5003.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	25644.4	0.0	25644.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	30648.0	0.0	30648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	1.3
10°-20°	1353.5	4.4
20°-30°	2421.5	7.9
30°-40°	3917.1	12.8
40°-50°	5666.7	18.5
50°-60°	6485.9	21.2
60°-70°	5966.3	19.5
70°-80°	3689.5	12.0
80°-90°	749.2	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°	30648.0	100.0
0°-180°	30648.0	100.0

Coefficient of Utilization



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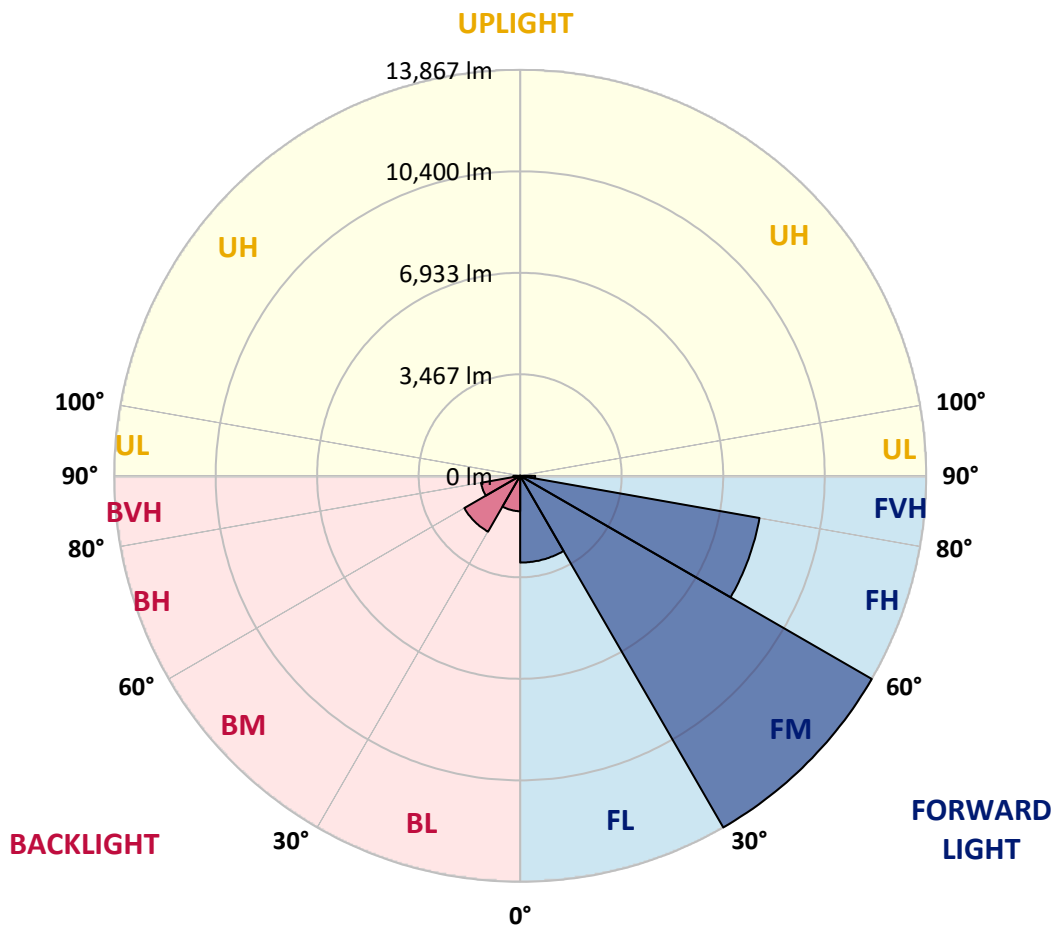
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2964.7	9.7			
FM (30°-60°)	13866.8	45.2			
FH (60°-80°)	8298.6	27.1			G4/12000
FVH (80°-90°)	514.3	1.7			G4/750
BL (0°-30°)	1208.5	3.9	B3/2500		
BM (30°-60°)	2203.0	7.2	B2/2500		
BH (60°-80°)	1357.1	4.4	B3/2500		G3/2500
BVH (80°-90°)	234.9	0.8			G3/500
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°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	4884.5	4848.3	4844.2	4787.8	4735.4	4594.4	4493.6	4316.3	4139.0	4134.9	3957.6
5°	5646.2	5610.0	5589.8	5521.3	5432.6	5247.2	5065.9	4791.8	4489.6	4469.4	4134.9
7.5°	6162.1	6129.8	6089.5	6061.3	5976.7	5811.5	5589.8	5263.4	4848.3	4808.0	4340.5
10°	6508.7	6488.5	6480.5	6460.3	6407.9	6274.9	6061.3	5714.7	5206.9	5162.6	4558.1
12.5°	6657.8	6649.7	6686.0	6742.4	6762.6	6710.2	6504.6	6178.2	5601.9	5553.5	4820.0
15°	6484.5	6492.6	6585.2	6778.7	6984.2	7097.1	6976.2	6657.8	6049.2	5980.7	5126.3
17.5°	6403.9	6416.0	6480.5	6665.9	6956.0	7306.6	7363.1	7113.2	6480.5	6383.7	5448.7
20°	6544.9	6561.1	6609.4	6754.5	6956.0	7330.8	7625.0	7548.5	6903.6	6802.9	5759.1
22.5°	6903.6	6923.8	6919.8	7012.4	7149.5	7407.4	7770.1	7959.5	7346.9	7234.1	6081.5
25°	7669.4	7653.2	7516.2	7471.9	7508.2	7673.4	7963.6	8354.5	7810.4	7697.6	6420.0
27.5°	8709.1	8689.0	8439.1	8213.4	8011.9	8084.5	8237.6	8672.9	8281.9	8153.0	6742.4
30°	9821.5	9797.3	9507.1	9140.4	8693.0	8588.2	8568.1	8950.9	8757.5	8620.5	7085.0
32.5°	10905.6	10885.4	10575.1	10147.9	9531.3	9216.9	9023.5	9261.3	9297.5	9164.5	7459.8
35°	11892.9	11892.9	11627.0	11119.2	10421.9	9946.4	9628.0	9644.1	9918.2	9765.0	7887.0
37.5°	12771.5	12767.5	12477.3	11977.6	11308.6	10764.5	10369.6	10107.6	10510.6	10377.6	8334.3
40°	13468.7	13440.5	13226.9	12791.7	12118.6	11578.6	11179.6	10651.7	11171.5	11050.6	8809.9
42.5°	13976.5	13960.4	13815.3	13436.5	12795.7	12287.9	12013.8	11336.8	11921.2	11800.3	9366.0
45°	14174.0	14206.2	14206.2	13847.6	13339.8	12876.3	12755.4	12090.4	12731.2	12610.3	9962.5
47.5°	13855.6	13940.3	14113.6	14137.7	13690.4	13376.0	13416.3	12848.1	13565.5	13501.0	10615.4
50°	12860.2	13017.4	13396.2	14081.3	13831.4	13758.9	13980.6	13621.9	14460.1	14440.0	11409.3
52.5°	10293.0	10675.8	11856.7	13085.9	13734.7	13936.2	14540.7	14492.4	15612.8	15645.0	12445.1
55°	7895.0	8040.1	9406.3	11498.0	13142.3	13879.8	14915.5	15342.7	16862.1	16902.4	13396.2
57.5°	6383.7	6480.5	7226.0	9406.3	11792.2	13573.5	15209.7	15838.5	17821.3	17926.1	14242.5
60°	5057.8	5198.9	5698.6	7197.8	9902.1	12836.0	15415.3	16390.6	18853.0	19010.2	15254.1
62.5°	3760.1	3828.6	4300.2	5331.9	7838.6	11510.1	15306.5	16991.1	20118.5	20307.9	16471.2
65°	2676.0	2736.5	3071.0	3792.4	5795.3	9716.7	14673.7	17438.4	21706.3	21899.8	17696.3
67.5°	2003.0	2027.2	2216.6	2651.8	3905.2	7548.5	13392.2	17361.8	22867.0	23040.3	18188.0
70°	1583.8	1591.9	1684.6	1918.3	2539.0	5255.3	11147.4	16237.4	22951.6	23104.8	17567.4
72.5°	1313.8	1309.8	1362.2	1475.0	1769.2	3324.9	8257.8	14149.8	21863.5	21968.3	15834.4
75°	1084.1	1092.2	1128.4	1192.9	1350.1	2192.4	5352.0	11288.4	19288.3	19175.4	13287.4
77.5°	910.8	906.8	922.9	979.3	1092.2	1575.8	3135.4	8157.0	14294.9	14238.5	8721.2
80°	733.5	741.5	765.7	814.1	918.9	1201.0	1853.9	5090.1	7669.4	7463.8	4167.2
82.5°	491.7	568.2	616.6	673.0	793.9	886.6	1176.8	2587.4	3429.6	3377.3	1890.1
85°	233.7	310.3	459.4	523.9	644.8	556.2	798.0	1233.2	1716.8	1696.7	681.1
87.5°	48.4	48.4	245.8	294.2	399.0	237.8	443.3	536.0	830.2	777.8	278.1
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°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3852.8	3744.0	3526.4	3353.1	3175.8	3075.0	2950.1	2889.6	2877.5	2845.3	2869.5
5°	3921.3	3707.7	3296.7	3026.6	2845.3	2756.6	2712.3	2696.2	2692.1	2684.1	2684.1
7.5°	4014.0	3687.6	3151.6	2877.5	2760.6	2732.4	2744.5	2768.7	2772.7	2780.8	2776.8
10°	4126.9	3691.6	3071.0	2841.2	2784.8	2788.9	2829.2	2861.4	2877.5	2889.6	2885.6
12.5°	4284.0	3740.0	3058.9	2865.4	2841.2	2857.4	2897.7	2929.9	2946.0	2950.1	2950.1
15°	4489.6	3840.7	3087.1	2917.8	2897.7	2909.8	2933.9	2946.0	2950.1	2946.0	2946.0
17.5°	4715.3	3961.6	3127.4	2950.1	2917.8	2905.7	2897.7	2885.6	2861.4	2845.3	2845.3
20°	4932.9	4070.4	3147.5	2946.0	2889.6	2841.2	2792.9	2732.4	2692.1	2659.9	2659.9
22.5°	5150.5	4171.2	3147.5	2901.7	2813.0	2720.3	2619.6	2522.9	2462.4	2422.1	2422.1
25°	5380.2	4267.9	3123.4	2825.1	2692.1	2559.1	2422.1	2301.2	2240.8	2200.5	2192.4
27.5°	5573.7	4324.3	3058.9	2716.3	2543.0	2373.8	2216.6	2091.6	2047.3	2011.0	2011.0
30°	5779.2	4360.6	2938.0	2575.3	2373.8	2180.3	2019.1	1918.3	1870.0	1817.6	1813.6
32.5°	6008.9	4384.8	2800.9	2426.1	2200.5	1994.9	1857.9	1777.3	1672.5	1616.1	1608.0
35°	6274.9	4417.0	2655.9	2256.9	2027.2	1841.8	1761.2	1628.2	1527.4	1479.1	1475.0
37.5°	6557.0	4441.2	2498.7	2107.8	1870.0	1741.0	1660.4	1503.2	1414.6	1342.0	1334.0
40°	6855.3	4441.2	2337.5	1962.7	1745.1	1696.7	1543.5	1402.5	1253.4	1217.1	1209.0
42.5°	7185.7	4433.2	2176.3	1821.6	1628.2	1595.9	1475.0	1325.9	1249.3	1217.1	1209.0
45°	7536.4	4404.9	2023.1	1660.4	1507.3	1442.8	1350.1	1309.8	1277.6	1277.6	1277.6
47.5°	7935.3	4380.8	1849.8	1515.3	1418.6	1346.1	1277.6	1253.4	1249.3	1261.4	1273.5
50°	8447.2	4372.7	1704.7	1410.5	1350.1	1265.5	1257.4	1237.3	1241.3	1241.3	1241.3
52.5°	9067.8	4300.2	1567.7	1334.0	1281.6	1180.8	1205.0	1225.2	1233.2	1229.2	1225.2
55°	9523.2	4171.2	1450.9	1281.6	1233.2	1148.6	1180.8	1213.1	1221.1	1209.0	1209.0
57.5°	9934.3	3989.8	1358.2	1241.3	1201.0	1128.4	1164.7	1197.0	1188.9	1184.9	1180.8
60°	10405.8	3816.5	1285.6	1221.1	1168.7	1120.4	1152.6	1172.8	1160.7	1152.6	1148.6
62.5°	10917.7	3647.3	1233.2	1221.1	1144.6	1116.3	1140.5	1148.6	1124.4	1116.3	1116.3
65°	11155.4	3381.3	1176.8	1221.1	1132.5	1108.3	1116.3	1108.3	1084.1	1084.1	1080.1
67.5°	10764.5	2942.0	1104.3	1205.0	1148.6	1096.2	1080.1	1068.0	1039.8	1039.8	1031.7
70°	9684.4	2418.1	999.5	1152.6	1152.6	1092.2	1031.7	1003.5	971.3	983.4	967.2
72.5°	8273.9	1918.3	870.5	1064.0	1128.4	1088.1	979.3	935.0	906.8	918.9	894.7
75°	6702.1	1487.1	717.4	922.9	1068.0	1068.0	926.9	866.5	834.2	834.2	806.0
77.5°	4271.9	1100.2	584.4	765.7	959.2	1039.8	882.6	789.9	741.5	729.5	709.3
80°	2115.8	773.8	479.6	608.6	818.1	975.3	850.4	701.2	632.7	608.6	572.3
82.5°	1124.4	536.0	382.9	475.6	652.9	878.6	810.1	604.5	519.9	483.6	443.3
85°	503.8	330.5	306.3	362.7	495.7	721.4	729.5	495.7	399.0	475.6	350.6
87.5°	185.4	149.1	149.1	185.4	286.1	302.3	515.9	318.4	253.9	173.3	137.0
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)