

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: P380867

Luminaire Tested: **PRV-XL-PA4B-730-U-T2R**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380867
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-PA4B-730-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36145 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

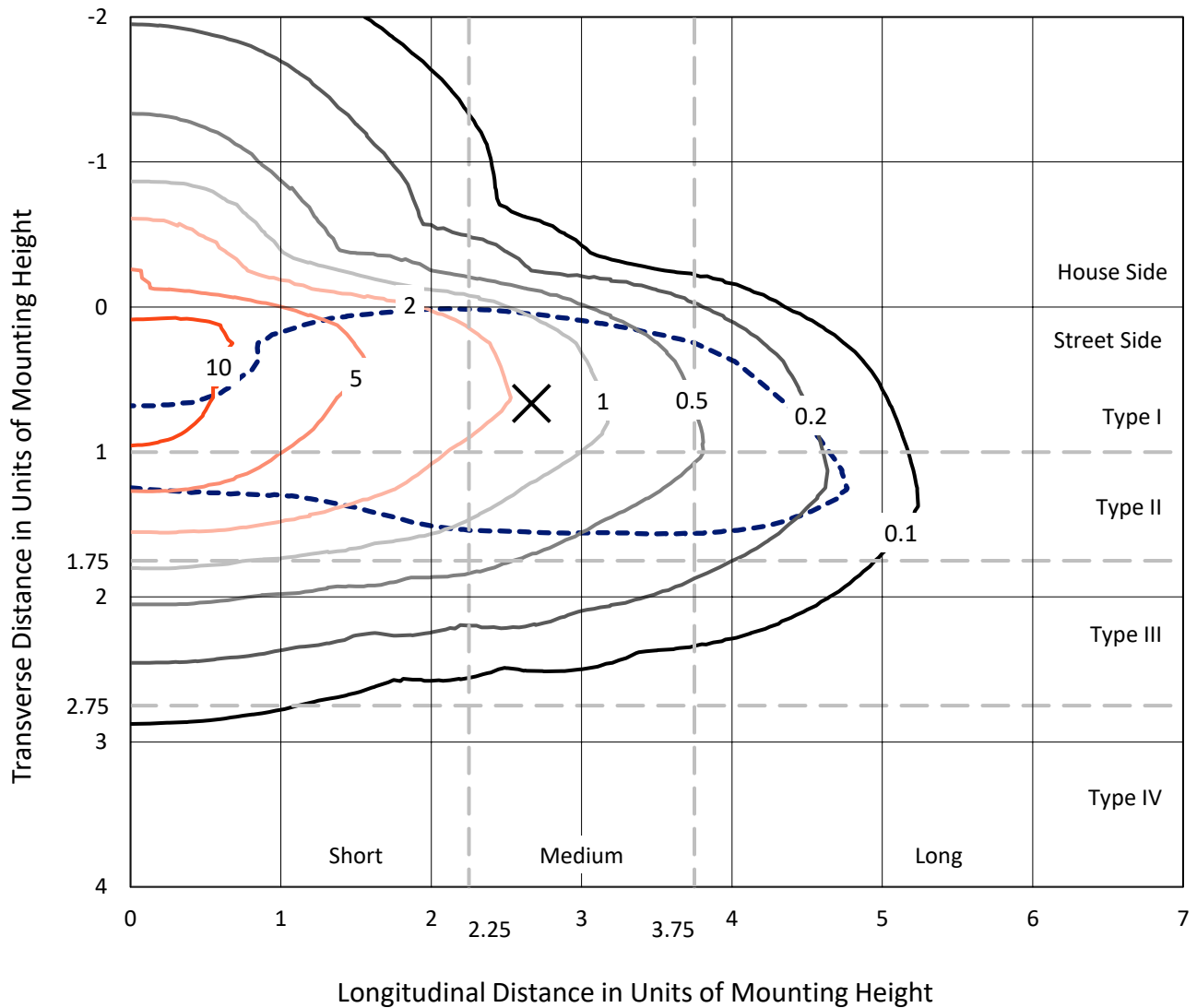
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

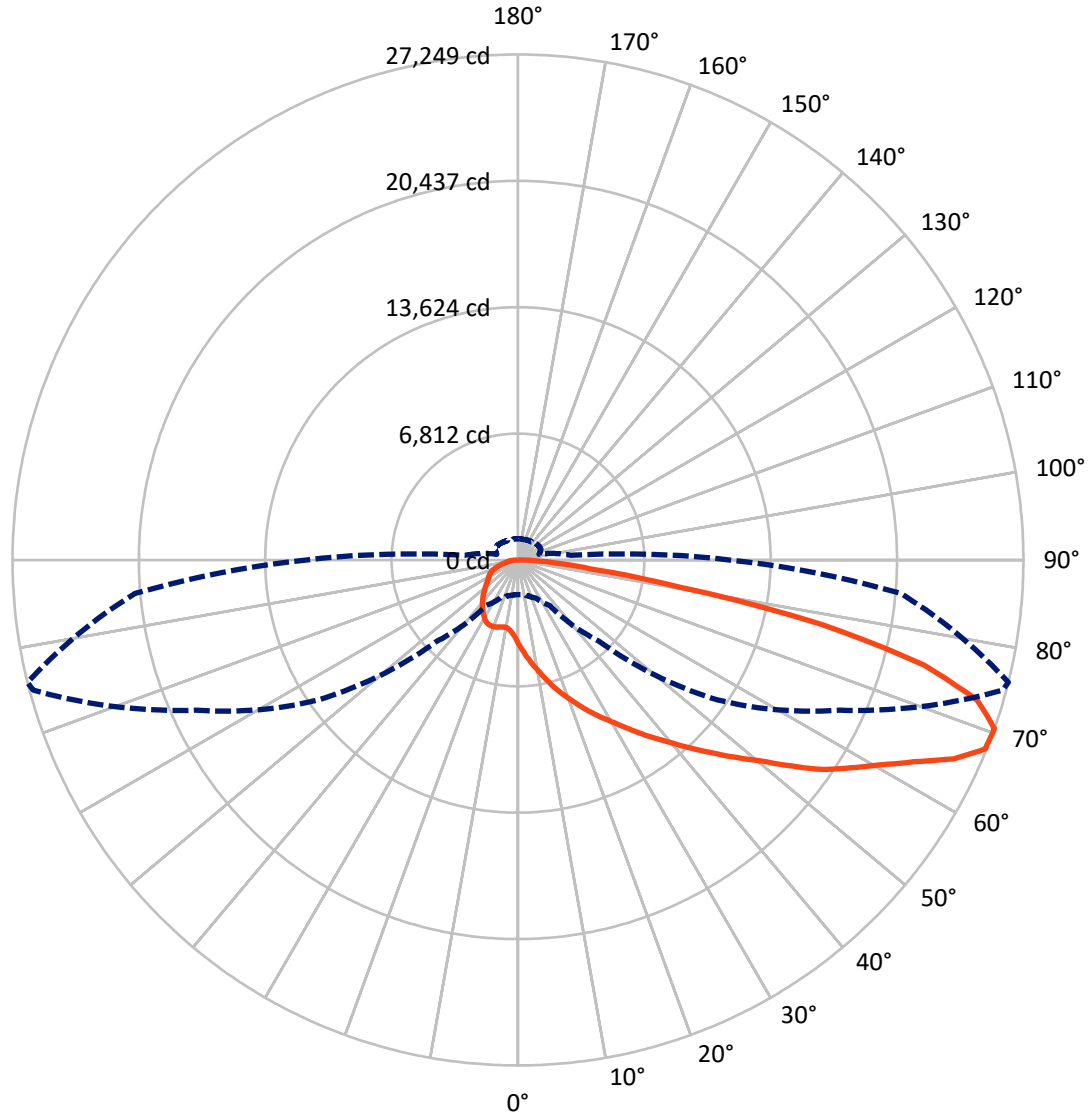
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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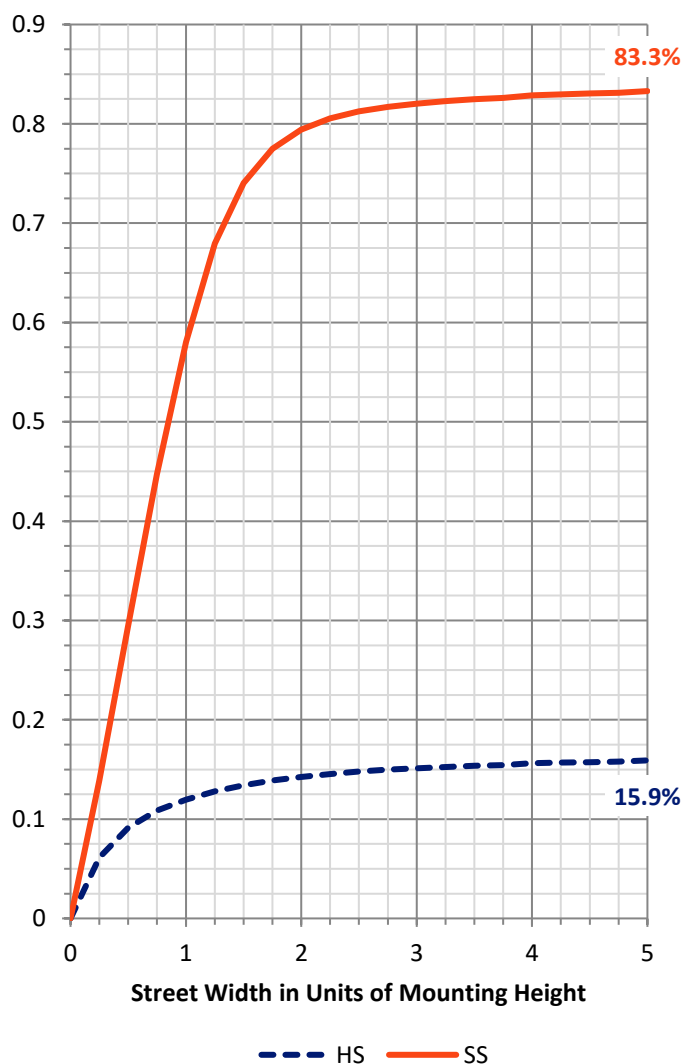
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5901.0	0.0	5901.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	30244.0	0.0	30244.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	36145.0	0.0	36145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.7	1.3
10°-20°	1596.2	4.4
20°-30°	2855.8	7.9
30°-40°	4619.7	12.8
40°-50°	6683.1	18.5
50°-60°	7649.2	21.2
60°-70°	7036.4	19.5
70°-80°	4351.2	12.0
80°-90°	883.6	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°	36145.0	100.0
0°-180°	36145.0	100.0

Coefficient of Utilization



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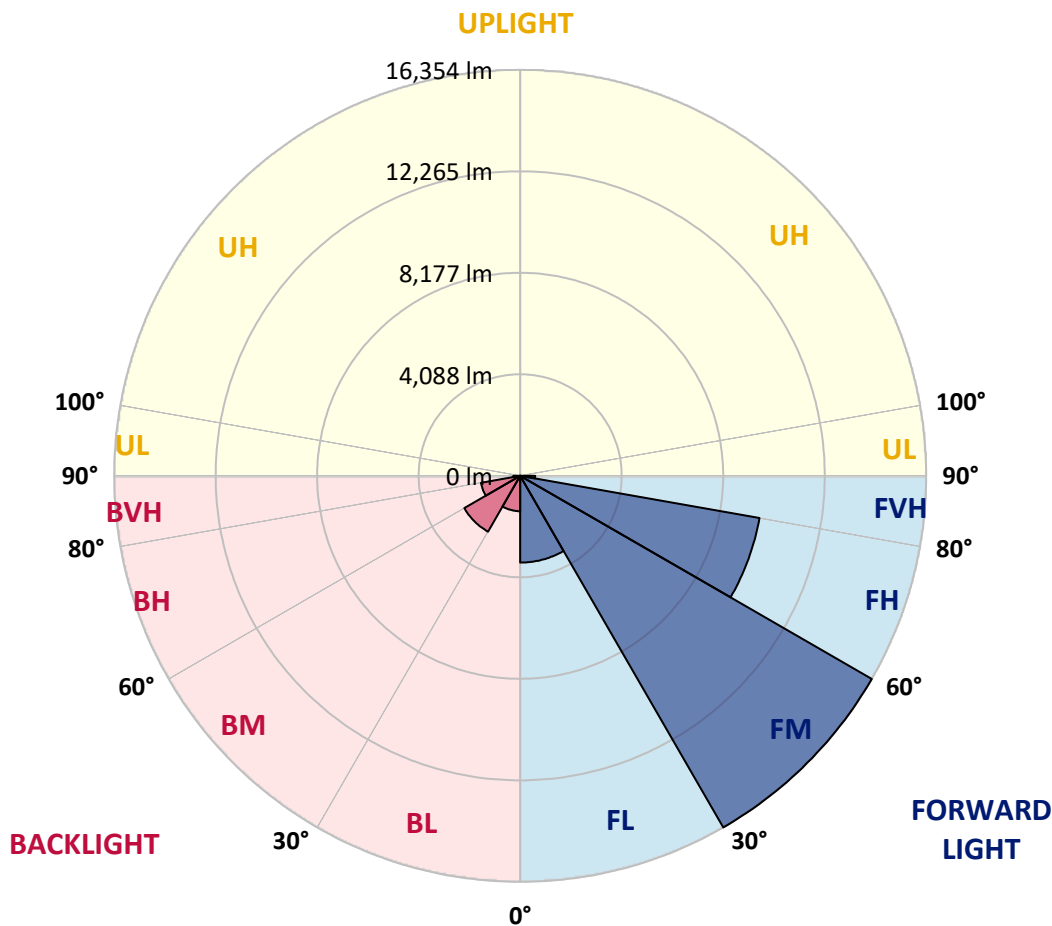
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3496.4	9.7			
FM (30°-60°)	16353.9	45.2			
FH (60°-80°)	9787.1	27.1			G4/12000
FVH (80°-90°)	606.6	1.7			G4/750
BL (0°-30°)	1425.3	3.9	B3/2500		
BM (30°-60°)	2598.2	7.2	B3/5000		
BH (60°-80°)	1600.6	4.4	B3/2500		G3/2500
BVH (80°-90°)	277.0	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°	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1
2.5°	5760.6	5717.8	5713.1	5646.5	5584.8	5418.4	5299.6	5090.4	4881.3	4876.6	4667.4
5°	6658.9	6616.2	6592.4	6511.6	6407.0	6188.4	5974.5	5651.3	5294.8	5271.1	4876.6
7.5°	7267.3	7229.3	7181.8	7148.5	7048.7	6853.8	6592.4	6207.4	5717.8	5670.3	5119.0
10°	7676.1	7652.3	7642.8	7619.0	7557.2	7400.4	7148.5	6739.7	6140.9	6088.6	5375.6
12.5°	7851.9	7842.4	7885.2	7951.7	7975.5	7913.7	7671.3	7286.3	6606.6	6549.6	5684.6
15°	7647.5	7657.1	7766.4	7994.5	8236.9	8370.0	8227.4	7851.9	7134.2	7053.4	6045.8
17.5°	7552.5	7566.7	7642.8	7861.4	8203.6	8617.2	8683.7	8389.0	7642.8	7528.7	6426.0
20°	7718.8	7737.9	7794.9	7966.0	8203.6	8645.7	8992.6	8902.3	8141.9	8023.0	6792.0
22.5°	8141.9	8165.6	8160.9	8270.2	8431.8	8736.0	9163.8	9387.1	8664.7	8531.6	7172.3
25°	9044.9	9025.9	8864.3	8812.0	8854.8	9049.7	9391.9	9852.9	9211.3	9078.2	7571.5
27.5°	10271.2	10247.4	9952.7	9686.6	9448.9	9534.5	9715.1	10228.4	9767.4	9615.3	7951.7
30°	11583.0	11554.5	11212.3	10779.8	10252.2	10128.6	10104.8	10556.4	10328.2	10166.6	8355.7
32.5°	12861.6	12837.8	12471.8	11968.0	11240.8	10870.1	10641.9	10922.4	10965.1	10808.3	8797.8
35°	14026.1	14026.1	13712.4	13113.5	12291.2	11730.4	11354.9	11373.9	11697.1	11516.5	9301.6
37.5°	15062.2	15057.5	14715.2	14125.9	13336.9	12695.2	12229.4	11920.5	12395.8	12238.9	9829.2
40°	15884.5	15851.2	15599.3	15086.0	14292.2	13655.3	13184.8	12562.1	13175.3	13032.7	10390.0
42.5°	16483.3	16464.3	16293.2	15846.4	15090.7	14491.8	14168.6	13370.1	14059.3	13916.7	11045.9
45°	16716.2	16754.3	16754.3	16331.2	15732.4	15185.8	15043.2	14258.9	15014.7	14872.1	11749.4
47.5°	16340.8	16440.6	16644.9	16673.5	16145.9	15775.2	15822.7	15152.5	15998.5	15922.5	12519.4
50°	15166.8	15352.1	15798.9	16606.9	16312.2	16226.7	16488.1	16065.1	17053.7	17029.9	13455.7
52.5°	12139.1	12590.7	13983.3	15432.9	16198.2	16435.8	17148.8	17091.7	18413.1	18451.1	14677.2
55°	9311.1	9482.2	11093.5	13560.3	15499.5	16369.3	17590.8	18094.6	19886.5	19934.0	15798.9
57.5°	7528.7	7642.8	8522.1	11093.5	13907.2	16008.0	17937.8	18679.2	21017.7	21141.3	16797.0
60°	5965.0	6131.3	6720.7	8488.8	11678.1	15138.3	18180.2	19330.4	22234.5	22419.8	17990.0
62.5°	4434.5	4515.3	5071.4	6288.2	9244.6	13574.5	18051.8	20038.6	23726.9	23950.3	19425.4
65°	3156.0	3227.3	3621.8	4472.6	6834.8	11459.4	17305.6	20566.2	25599.6	25827.7	20870.3
67.5°	2362.2	2390.8	2614.1	3127.5	4605.6	8902.3	15794.2	20475.9	26968.4	27172.8	21450.2
70°	1867.9	1877.4	1986.7	2262.4	2994.4	6197.9	13146.8	19149.8	27068.2	27248.9	20718.3
72.5°	1549.5	1544.7	1606.5	1739.6	2086.6	3921.2	9738.9	16687.7	25784.9	25908.5	18674.5
75°	1278.6	1288.1	1330.8	1406.9	1592.2	2585.6	6312.0	13313.1	22747.8	22614.7	15670.6
77.5°	1074.2	1069.4	1088.4	1155.0	1288.1	1858.4	3697.8	9620.0	16858.8	16792.3	10285.5
80°	865.0	874.5	903.1	960.1	1083.7	1416.4	2186.4	6003.0	9044.9	8802.5	4914.6
82.5°	579.9	670.2	727.2	793.7	936.3	1045.7	1387.9	3051.4	4044.8	3983.0	2229.1
85°	275.7	366.0	541.8	617.9	760.5	655.9	941.1	1454.4	2024.8	2001.0	803.3
87.5°	57.0	57.0	289.9	347.0	470.5	280.4	522.8	632.1	979.1	917.3	328.0
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°	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1
2.5°	4543.9	4415.5	4158.9	3954.5	3745.4	3626.5	3479.2	3407.9	3393.6	3355.6	3384.1
5°	4624.7	4372.7	3887.9	3569.5	3355.6	3251.0	3198.8	3179.7	3175.0	3165.5	3165.5
7.5°	4734.0	4349.0	3716.8	3393.6	3255.8	3222.5	3236.8	3265.3	3270.1	3279.6	3274.8
10°	4867.1	4353.7	3621.8	3350.9	3284.3	3289.1	3336.6	3374.6	3393.6	3407.9	3403.1
12.5°	5052.4	4410.8	3607.5	3379.4	3350.9	3369.9	3417.4	3455.4	3474.4	3479.2	3479.2
15°	5294.8	4529.6	3640.8	3441.2	3417.4	3431.7	3460.2	3474.4	3479.2	3474.4	3474.4
17.5°	5561.0	4672.2	3688.3	3479.2	3441.2	3426.9	3417.4	3403.1	3374.6	3355.6	3355.6
20°	5817.7	4800.5	3712.1	3474.4	3407.9	3350.9	3293.8	3222.5	3175.0	3137.0	3137.0
22.5°	6074.3	4919.3	3712.1	3422.1	3317.6	3208.3	3089.4	2975.4	2904.1	2856.5	2856.5
25°	6345.2	5033.4	3683.6	3331.8	3175.0	3018.1	2856.5	2714.0	2642.7	2595.1	2585.6
27.5°	6573.4	5100.0	3607.5	3203.5	2999.1	2799.5	2614.1	2466.8	2414.5	2371.7	2371.7
30°	6815.8	5142.7	3464.9	3037.2	2799.5	2571.4	2381.2	2262.4	2205.4	2143.6	2138.8
32.5°	7086.7	5171.2	3303.3	2861.3	2595.1	2352.7	2191.1	2096.1	1972.5	1905.9	1896.4
35°	7400.4	5209.3	3132.2	2661.7	2390.8	2172.1	2077.1	1920.2	1801.4	1744.3	1739.6
37.5°	7733.1	5237.8	2946.8	2485.8	2205.4	2053.3	1958.2	1772.9	1668.3	1582.7	1573.2
40°	8084.8	5237.8	2756.7	2314.7	2058.0	2001.0	1820.4	1654.0	1478.2	1435.4	1425.9
42.5°	8474.6	5228.3	2566.6	2148.3	1920.2	1882.2	1739.6	1563.7	1473.4	1435.4	1425.9
45°	8888.1	5195.0	2386.0	1958.2	1777.6	1701.6	1592.2	1544.7	1506.7	1506.7	1506.7
47.5°	9358.6	5166.5	2181.6	1787.1	1673.1	1587.5	1506.7	1478.2	1473.4	1487.7	1501.9
50°	9962.3	5157.0	2010.5	1663.5	1592.2	1492.4	1482.9	1459.2	1463.9	1463.9	1463.9
52.5°	10694.2	5071.4	1848.9	1573.2	1511.4	1392.6	1421.1	1444.9	1454.4	1449.7	1444.9
55°	11231.3	4919.3	1711.1	1511.4	1454.4	1354.6	1392.6	1430.6	1440.2	1425.9	1425.9
57.5°	11716.1	4705.5	1601.8	1463.9	1416.4	1330.8	1373.6	1411.6	1402.1	1397.4	1392.6
60°	12272.2	4501.1	1516.2	1440.2	1378.4	1321.3	1359.4	1383.1	1368.9	1359.4	1354.6
62.5°	12875.8	4301.4	1454.4	1440.2	1349.8	1316.6	1345.1	1354.6	1326.1	1316.6	1316.6
65°	13156.3	3987.8	1387.9	1440.2	1335.6	1307.1	1316.6	1307.1	1278.6	1278.6	1273.8
67.5°	12695.2	3469.7	1302.3	1421.1	1354.6	1292.8	1273.8	1259.5	1226.3	1226.3	1216.8
70°	11421.4	2851.8	1178.7	1359.4	1359.4	1288.1	1216.8	1183.5	1145.5	1159.7	1140.7
72.5°	9757.9	2262.4	1026.6	1254.8	1330.8	1283.3	1155.0	1102.7	1069.4	1083.7	1055.2
75°	7904.2	1753.9	846.0	1088.4	1259.5	1259.5	1093.2	1021.9	983.9	983.9	950.6
77.5°	5038.2	1297.6	689.2	903.1	1131.2	1226.3	1040.9	931.6	874.5	860.3	836.5
80°	2495.3	912.6	565.6	717.7	964.9	1150.2	1002.9	827.0	746.2	717.7	674.9
82.5°	1326.1	632.1	451.5	560.9	770.0	1036.2	955.3	712.9	613.1	570.4	522.8
85°	594.1	389.7	361.2	427.8	584.6	850.8	860.3	584.6	470.5	560.9	413.5
87.5°	218.6	175.9	175.9	218.6	337.5	356.5	608.4	375.5	299.4	204.4	161.6
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)