

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: P622586

Luminaire Tested: **PRV-M-PA6A-730-U-T2U-HSS**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-PA6A-730-U-T2U-HSS  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26366 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

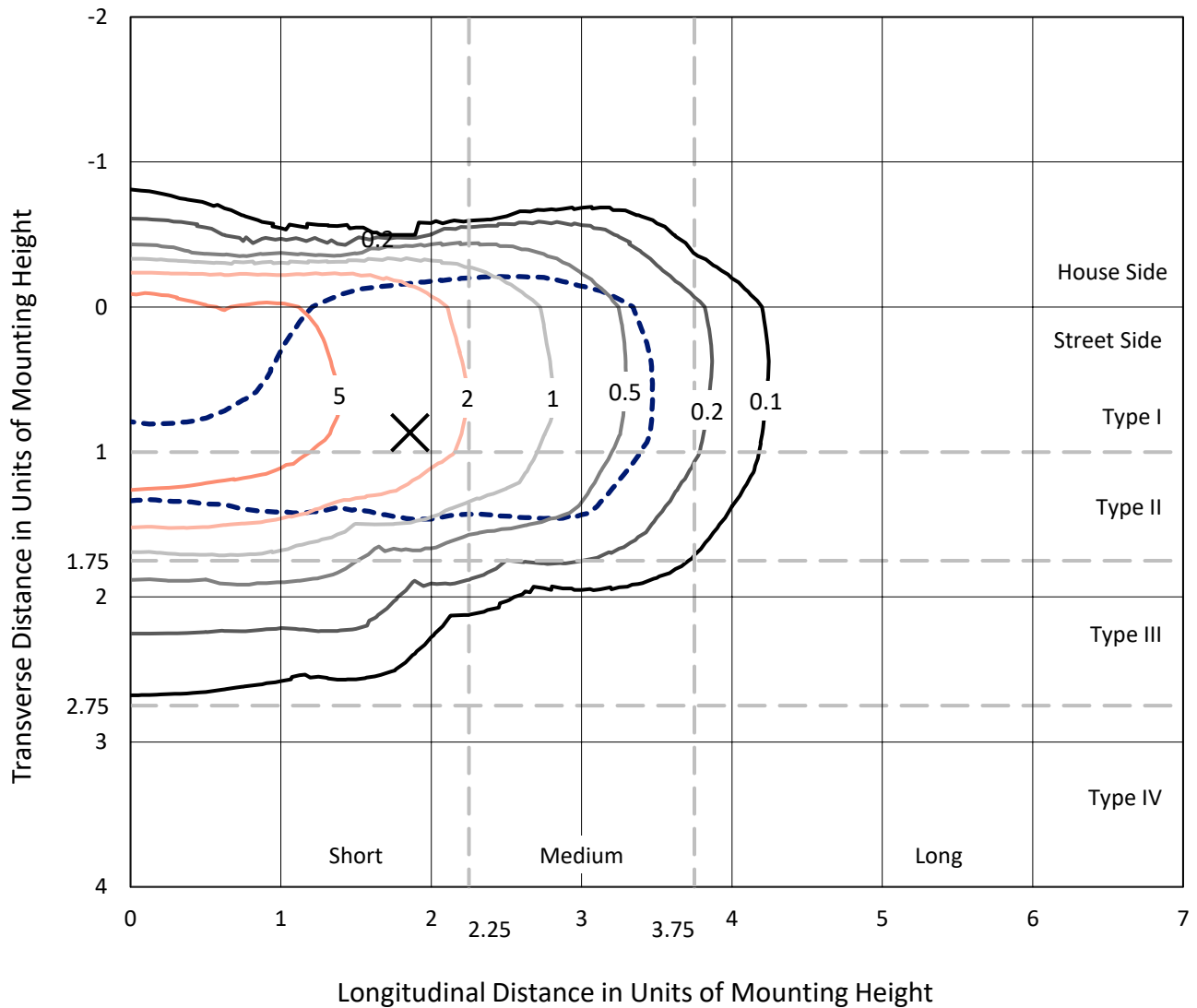
Input Watts (W): 273.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

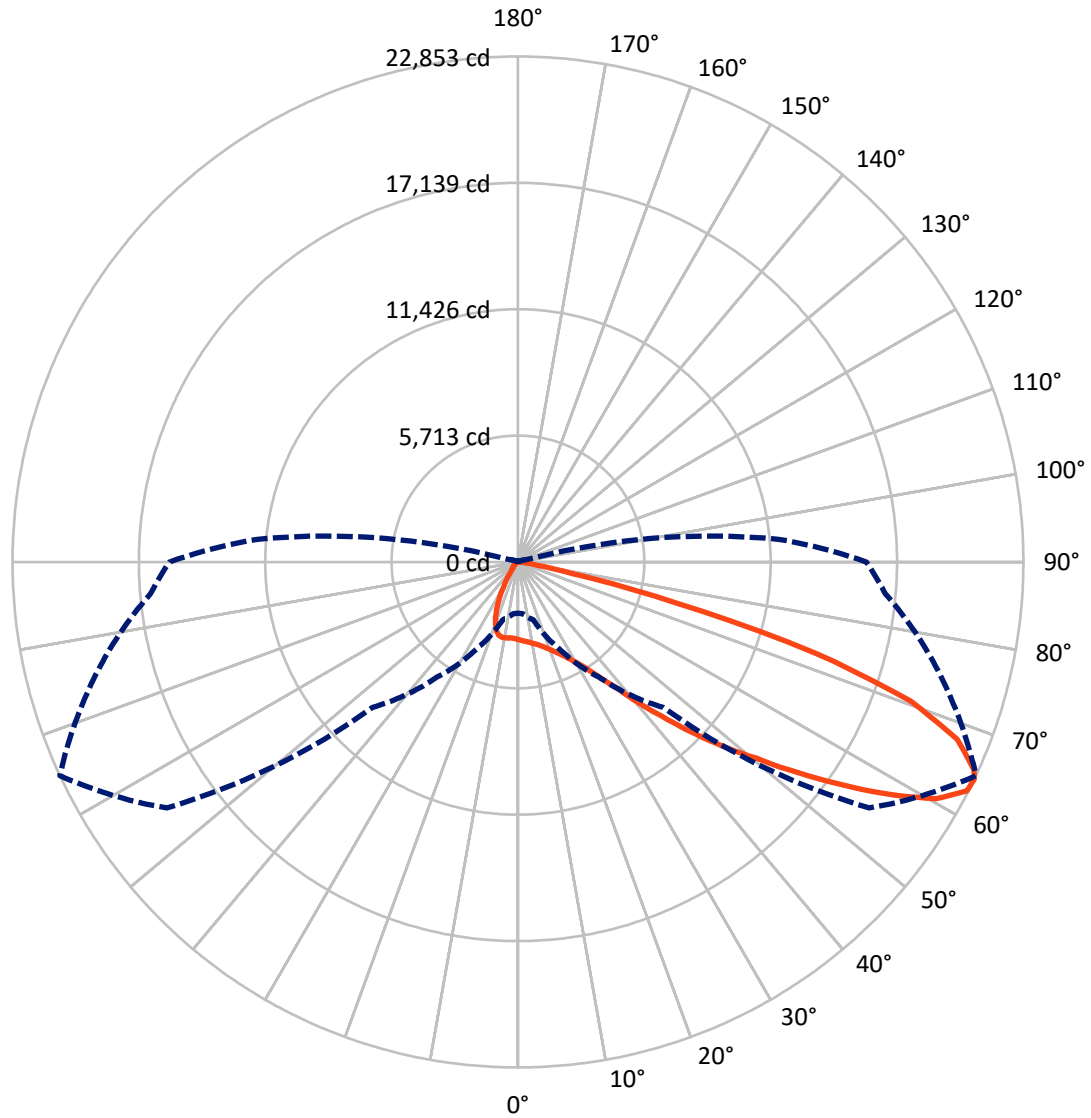
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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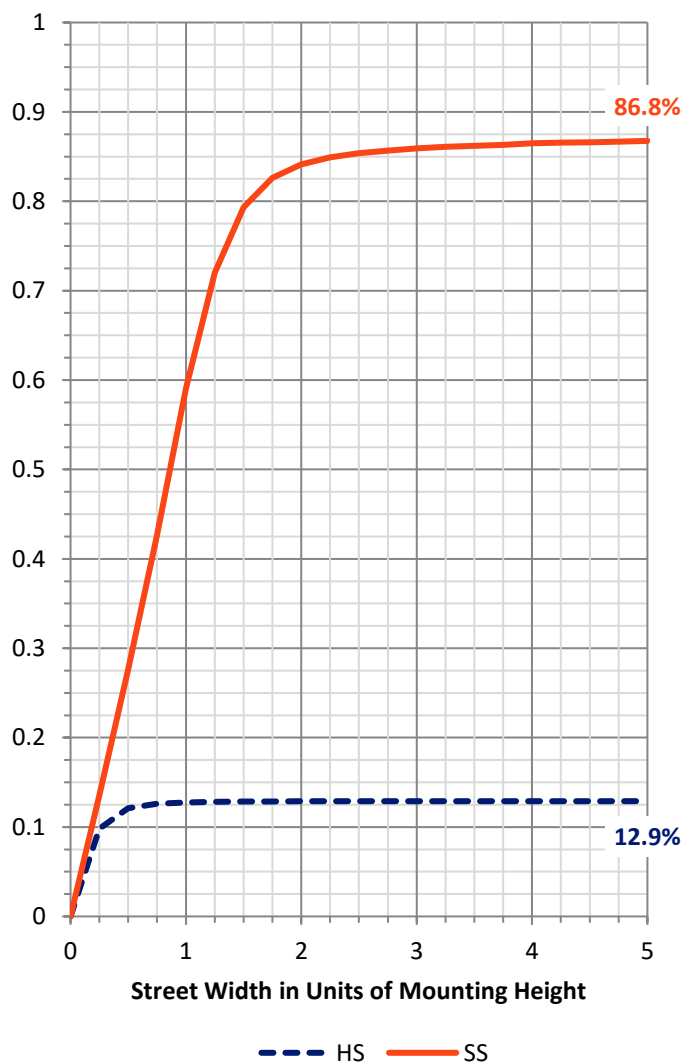
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3437.8	0.0	3437.8
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	22928.2	0.0	22928.2
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	26366.0	0.0	26366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.3	1.3
10°-20°	881.4	3.3
20°-30°	1416.6	5.4
30°-40°	2581.9	9.8
40°-50°	5261.1	20.0
50°-60°	7257.1	27.5
60°-70°	6103.9	23.2
70°-80°	2390.8	9.1
80°-90°	141.8	0.5
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°	26366.0	100.0
0°-180°	26366.0	100.0

**Coefficient of Utilization**



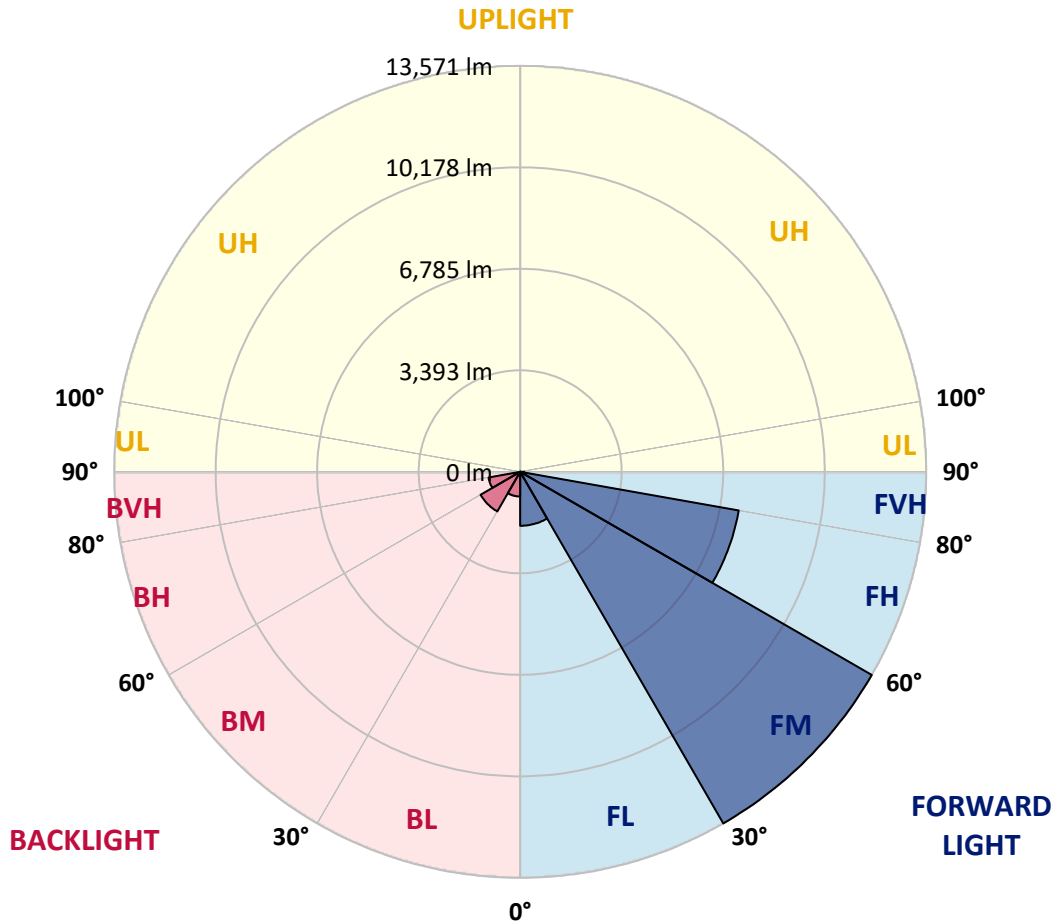
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.1	6.8			
FM (30°-60°)	13570.7	51.5			
FH (60°-80°)	7419.2	28.1			G3/7500
FVH (80°-90°)	135.1	0.5			G2/225
BL (0°-30°)	826.3	3.1	B2/1000		
BM (30°-60°)	1529.4	5.8	B2/2500		
BH (60°-80°)	1075.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0
2.5°	3649.2	3616.5	3612.8	3608.3	3594.6	3585.5	3570.0	3556.3	3536.3	3518.1	3506.3
5°	3701.1	3664.7	3663.8	3664.7	3652.9	3642.0	3624.6	3601.9	3570.0	3537.2	3516.3
7.5°	3708.4	3674.7	3677.5	3681.1	3679.3	3679.3	3675.6	3661.1	3631.9	3587.3	3561.8
10°	3742.1	3712.1	3710.3	3708.4	3705.7	3713.9	3733.9	3740.3	3713.0	3667.5	3632.8
12.5°	3821.4	3788.6	3786.8	3780.4	3774.0	3780.4	3809.5	3826.8	3809.5	3754.9	3714.8
15°	3928.8	3894.2	3890.6	3884.2	3879.6	3891.5	3915.2	3933.4	3913.3	3852.3	3802.2
17.5°	4051.8	4009.0	4019.0	4013.5	4014.4	4022.6	4050.9	4069.1	4043.6	3970.7	3907.9
20°	4187.5	4142.8	4162.0	4169.3	4166.5	4184.7	4221.2	4237.6	4195.7	4099.1	4022.6
22.5°	4342.3	4296.8	4330.5	4356.9	4332.3	4371.4	4422.4	4432.5	4378.7	4245.8	4147.4
25°	4543.6	4489.8	4529.0	4559.0	4509.0	4570.9	4646.5	4666.5	4604.6	4447.0	4316.8
27.5°	4865.0	4792.2	4796.7	4789.5	4727.5	4797.6	4906.9	4951.6	4878.7	4687.5	4530.8
30°	5585.4	5459.7	5309.5	5107.3	4990.7	5088.2	5234.8	5313.1	5226.6	4965.2	4767.6
32.5°	6877.7	6679.2	6368.6	5782.1	5384.1	5439.7	5642.8	5763.9	5684.7	5376.0	5121.9
35°	8734.7	8443.2	7886.8	7116.3	6151.9	5912.4	6166.5	6435.1	6358.6	6022.6	5703.8
37.5°	10942.2	10564.3	9803.8	8758.3	7359.5	6630.0	6865.0	7193.7	7234.7	6845.8	6465.2
40°	12797.4	12404.9	11760.1	10648.1	9091.7	7820.3	7790.3	8348.5	8300.3	7827.6	7370.4
42.5°	14154.3	13767.3	13344.7	12485.9	11265.5	9773.8	9032.5	9526.1	9464.2	8857.6	8328.5
45°	14940.3	14566.0	14324.6	13977.7	13286.4	12562.4	10713.7	10942.2	10707.3	9935.9	9301.1
47.5°	15161.6	14776.4	14751.8	14946.7	15106.9	15234.4	12844.7	12436.7	11984.1	10955.9	10282.9
50°	14423.9	14188.9	14529.6	15349.2	16485.8	17238.9	15245.4	13937.6	13304.6	12060.6	11271.9
52.5°	12249.1	12215.4	13157.1	14845.6	17244.4	18960.2	17571.3	15810.0	14627.9	13105.2	12245.5
55°	9376.7	9367.6	10603.5	12851.1	16818.2	19523.9	19540.3	17796.3	15886.5	14093.3	13178.0
57.5°	6386.8	6490.7	8159.1	10147.2	14537.7	19011.2	20749.7	19831.7	17164.3	15034.1	14056.9
60°	3991.7	4033.6	5442.4	7729.2	11108.0	16550.4	21093.1	21730.6	18268.0	15811.8	14838.3
62.5°	2774.9	2788.6	3395.1	5535.3	7828.5	12128.9	20449.2	22787.0	19281.7	16421.1	15474.0
64°	2317.8	2342.4	2713.9	4253.0	6334.0	9295.7	19385.5	22852.6	19767.1	16685.2	15758.1
65°	2058.2	2093.7	2375.1	3518.1	5529.9	7427.8	18172.4	22660.4	20031.2	16812.7	15877.4
67.5°	1618.3	1610.1	1750.4	2262.2	3992.6	4057.2	13742.7	21422.8	20284.4	16836.4	15895.6
70°	1415.3	1425.3	1491.8	1634.7	2810.5	2551.8	7117.2	18829.0	19393.7	16187.1	15194.4
72.5°	1105.6	1108.3	1265.9	1415.3	1860.6	1694.8	3059.1	14044.1	16105.1	13994.1	12941.3
75°	734.9	769.6	939.9	1230.4	1273.2	1149.3	1334.2	7344.9	9761.0	9354.9	8323.9
77.5°	493.6	510.9	625.7	908.9	1136.6	730.4	739.5	2458.9	4034.5	3615.5	3152.9
80°	313.3	325.1	411.6	630.2	879.8	531.9	436.2	874.3	1133.8	753.2	612.9
82.5°	213.1	225.9	275.0	454.4	563.7	479.0	260.5	405.3	444.4	196.7	148.4
85°	95.6	132.1	194.0	302.4	367.0	247.7	160.3	202.2	244.1	91.1	51.0
87.5°	18.2	27.3	112.9	163.0	110.2	59.2	78.3	76.5	107.5	36.4	16.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0	3509.0
2.5°	3497.1	3486.2	3469.8	3452.5	3433.4	3424.3	3419.7	3412.5	3410.6	3375.1
5°	3503.5	3476.2	3445.2	3412.5	3377.8	3357.8	3343.2	3325.0	3316.8	3283.1
7.5°	3542.7	3498.1	3451.6	3396.1	3325.0	3244.0	3136.5	3075.5	3027.2	2999.9
10°	3610.1	3546.3	3475.3	3353.3	3152.0	2900.6	2630.1	2448.9	2354.2	2345.1
12.5°	3682.0	3597.3	3481.7	3197.5	2754.0	2305.9	1897.0	1655.7	1542.8	1538.2
15°	3761.3	3654.7	3427.0	2873.3	2196.6	1626.5	1224.0	1015.4	913.4	908.0
17.5°	3856.9	3715.7	3280.4	2415.2	1586.5	1033.7	770.5	668.5	638.4	634.8
20°	3961.6	3764.9	3025.4	1898.8	1057.3	703.1	592.0	539.1	516.4	512.7
22.5°	4072.7	3784.0	2692.1	1388.8	728.6	562.8	489.1	439.0	415.3	411.6
25°	4218.4	3772.2	2294.1	958.1	576.5	469.0	395.3	353.4	330.6	328.8
27.5°	4412.4	3725.7	1841.5	685.8	489.1	388.0	318.8	280.5	265.9	264.1
30°	4617.3	3583.7	1398.9	540.1	412.6	316.9	256.8	228.6	217.7	215.8
32.5°	4894.2	3378.8	1002.7	445.3	342.4	258.6	210.4	188.5	181.2	180.3
35°	5390.5	3195.7	679.4	367.0	279.6	212.2	175.8	160.3	156.6	156.6
37.5°	6062.6	3012.6	494.5	306.9	227.7	176.7	150.3	140.3	139.3	139.3
40°	6840.4	2792.3	394.3	258.6	190.3	151.2	130.2	122.9	124.8	124.8
42.5°	7627.2	2495.4	338.8	219.5	163.0	131.1	113.8	106.6	110.2	111.1
45°	8396.8	2101.0	298.7	188.5	143.0	113.8	98.4	92.0	96.5	96.5
47.5°	9084.4	1698.5	263.2	163.9	125.7	99.3	82.9	76.5	80.1	82.0
50°	9762.9	1303.2	230.4	144.8	112.9	85.6	69.2	63.8	67.4	69.2
52.5°	10362.1	1054.6	201.3	129.3	101.1	72.9	57.4	51.9	56.5	57.4
55°	10883.0	859.7	173.9	115.7	88.3	61.0	46.4	42.8	47.4	48.3
57.5°	11323.8	711.3	150.3	102.9	77.4	51.9	39.2	36.4	40.1	41.9
60°	11629.8	578.3	127.5	91.1	66.5	43.7	32.8	30.1	32.8	32.8
62.5°	11795.6	469.0	109.3	80.1	57.4	38.3	28.2	22.8	24.6	24.6
64°	11815.6	416.2	99.3	73.8	51.9	35.5	24.6	18.2	19.1	19.1
65°	11795.6	383.4	91.1	69.2	49.2	33.7	22.8	14.6	14.6	15.5
67.5°	11533.3	315.1	74.7	58.3	41.0	28.2	16.4	9.1	9.1	9.1
70°	10818.4	242.3	61.9	47.4	33.7	23.7	12.8	6.4	5.5	5.5
72.5°	8685.5	166.7	49.2	35.5	26.4	19.1	9.1	3.6	1.8	1.8
75°	4064.5	106.6	34.6	23.7	18.2	14.6	6.4	1.8	0.0	0.0
77.5°	1189.4	61.0	21.9	15.5	12.8	10.0	5.5	0.9	0.0	0.0
80°	242.3	24.6	14.6	11.8	10.0	8.2	4.6	0.9	0.0	0.0
82.5°	41.0	12.8	11.8	9.1	8.2	6.4	3.6	0.0	0.0	0.0
85°	15.5	9.1	10.0	8.2	7.3	5.5	2.7	0.0	0.0	0.0
87.5°	9.1	9.1	9.1	8.2	6.4	3.6	1.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)