

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: P381379

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

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25176 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

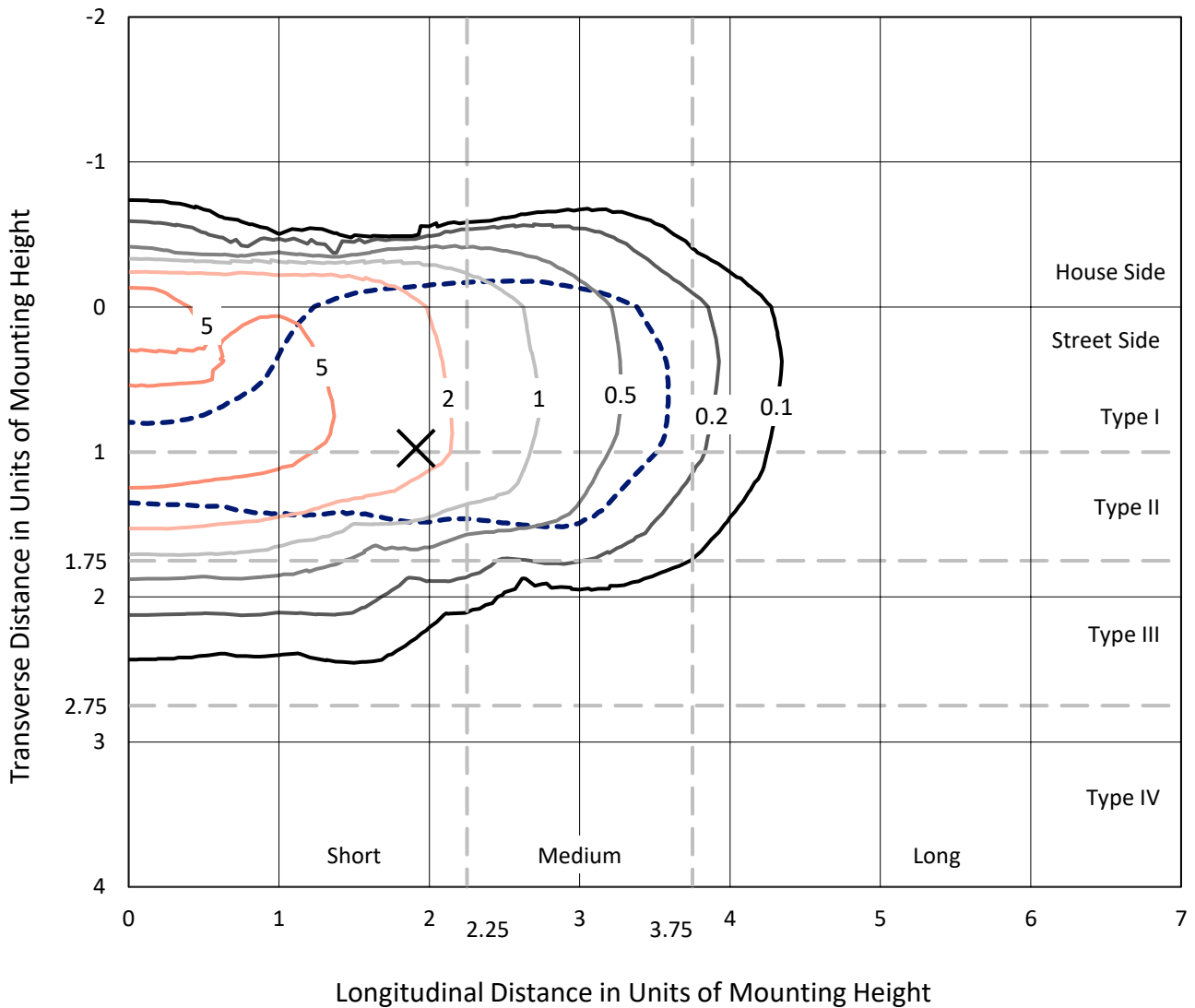
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

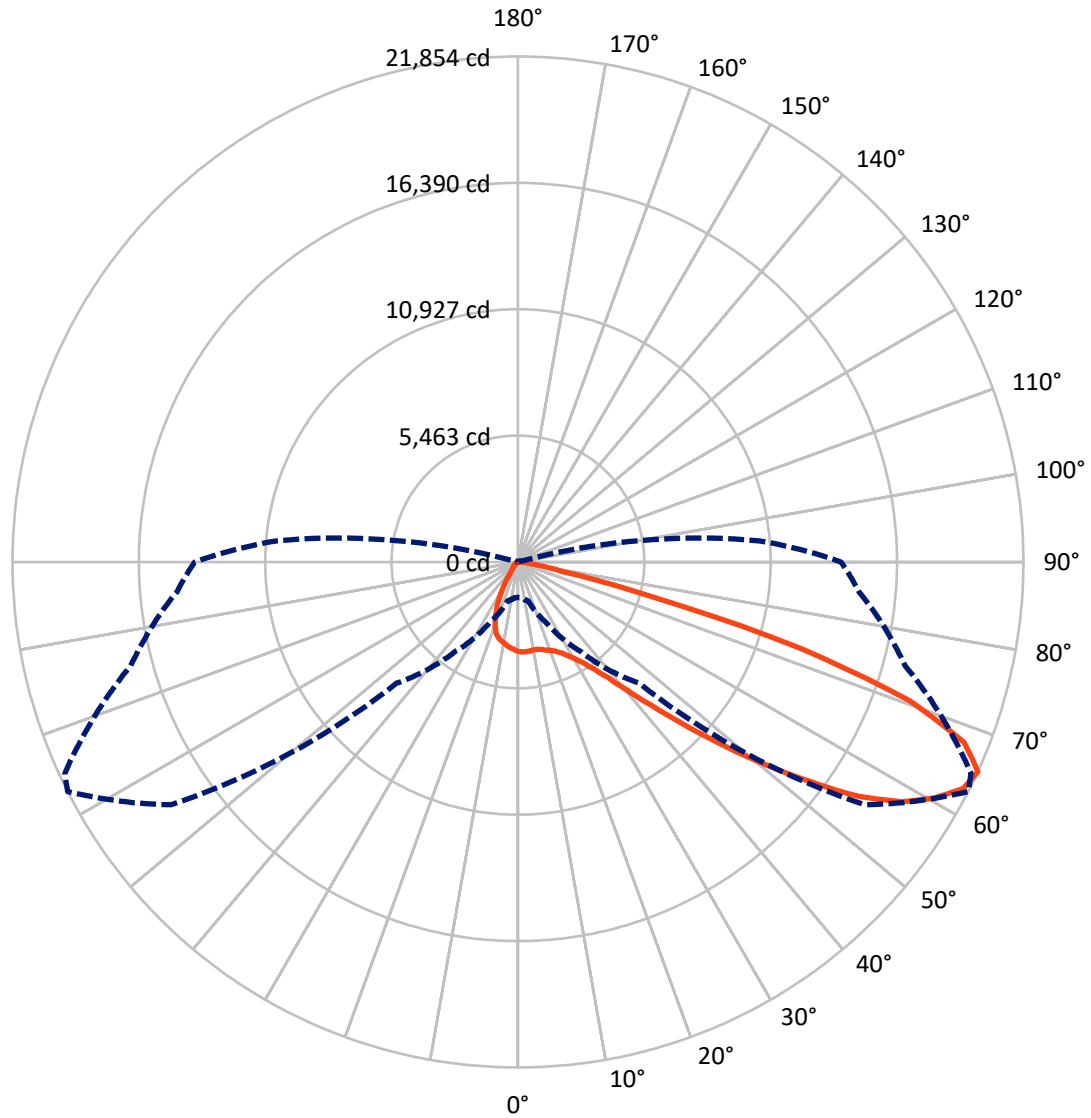
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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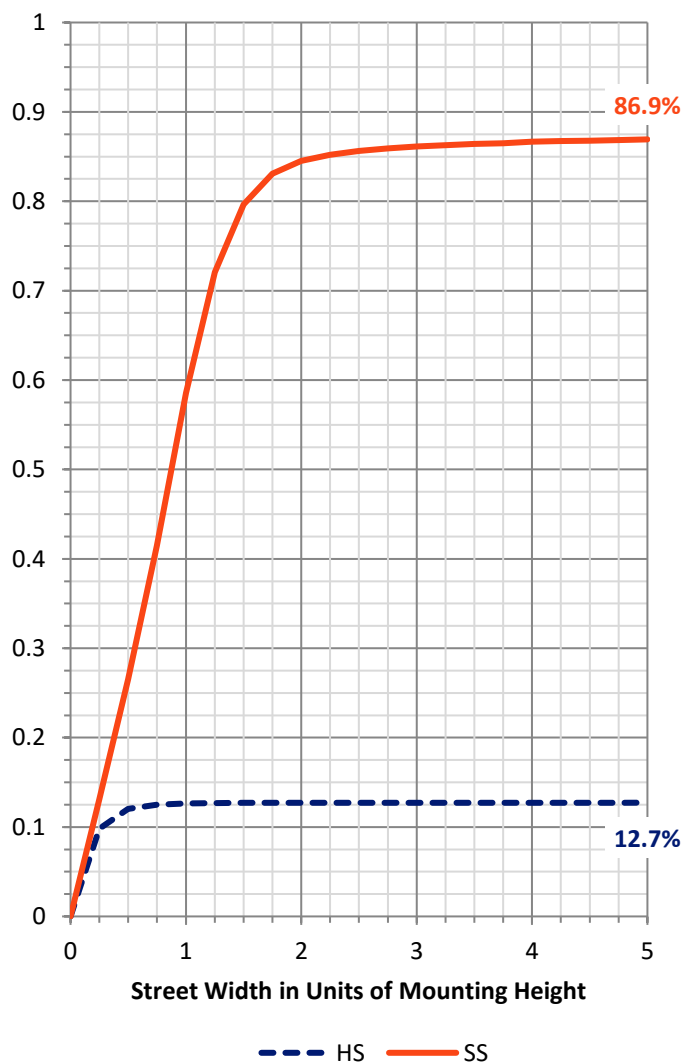
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3240.1	0.0	3240.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	21935.9	0.0	21935.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	25176.0	0.0	25176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	1.4
10°-20°	873.0	3.5
20°-30°	1294.0	5.1
30°-40°	2402.6	9.5
40°-50°	5089.7	20.2
50°-60°	7037.8	28.0
60°-70°	5634.0	22.4
70°-80°	2340.8	9.3
80°-90°	150.3	0.6
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°	25176.0	100.0
0°-180°	25176.0	100.0

Coefficient of Utilization

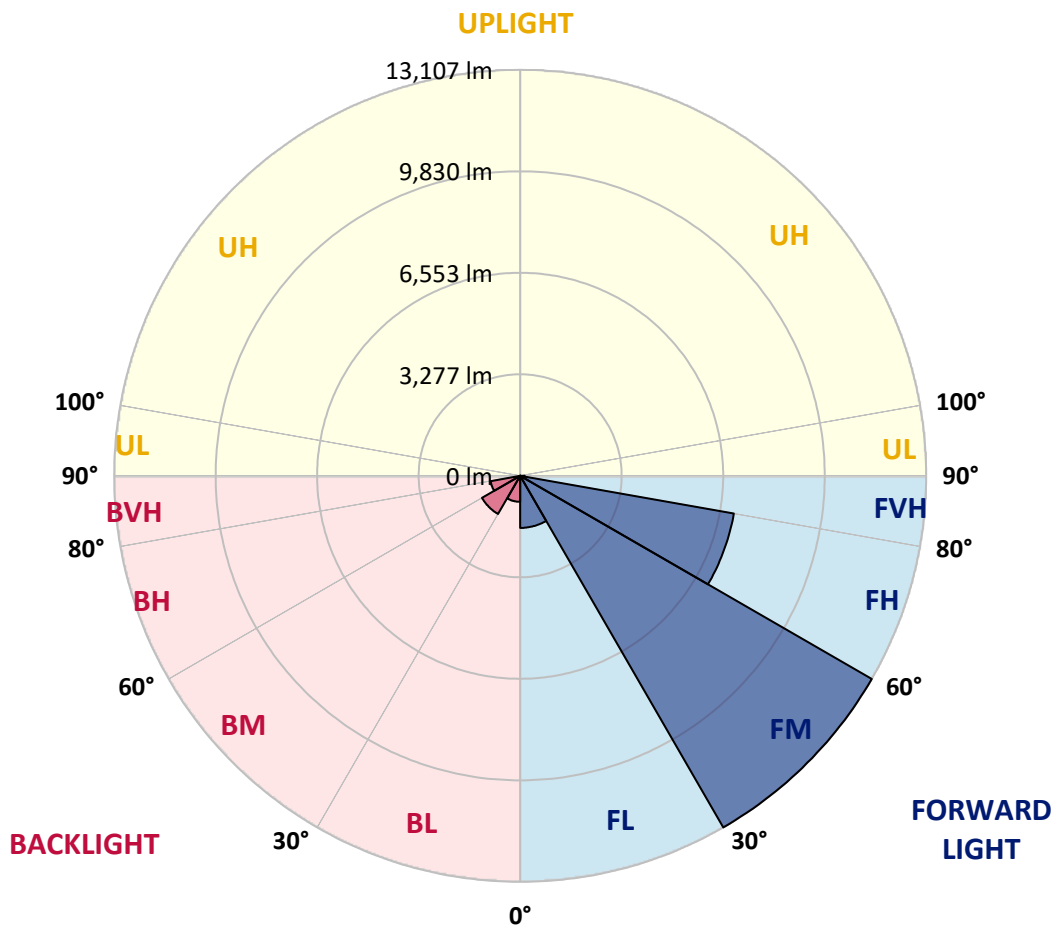


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.2	6.7			
FM (30°-60°)	13106.7	52.1			
FH (60°-80°)	7004.5	27.8			G3/7500
FVH (80°-90°)	143.4	0.6			G2/225
BL (0°-30°)	839.7	3.3	B2/1000		
BM (30°-60°)	1423.3	5.7	B2/2500		
BH (60°-80°)	970.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4
2.5°	3944.9	3935.4	3925.9	3921.2	3921.2	3916.4	3897.4	3892.6	3883.1	3873.6	3864.1
5°	3906.9	3892.6	3887.9	3892.6	3897.4	3906.9	3897.4	3897.4	3887.9	3878.4	3859.4
7.5°	3811.8	3802.3	3807.1	3821.3	3826.1	3859.4	3864.1	3878.4	3878.4	3868.9	3854.6
10°	3697.8	3693.0	3693.0	3716.8	3740.5	3788.1	3821.3	3859.4	3864.1	3864.1	3840.4
12.5°	3612.2	3607.5	3621.7	3650.2	3697.8	3759.6	3816.6	3873.6	3883.1	3887.9	3849.9
15°	3559.9	3559.9	3578.9	3636.0	3702.5	3788.1	3854.6	3930.7	3940.2	3935.4	3883.1
17.5°	3512.4	3517.2	3555.2	3650.2	3726.3	3840.4	3921.2	4006.7	4011.5	4006.7	3921.2
20°	3493.4	3502.9	3559.9	3683.5	3769.1	3897.4	4002.0	4087.5	4092.3	4073.2	3959.2
22.5°	3545.7	3550.4	3621.7	3754.8	3835.6	3978.2	4111.3	4192.1	4196.8	4168.3	4016.2
25°	3726.3	3726.3	3788.1	3902.1	3973.4	4116.0	4258.6	4353.7	4353.7	4320.4	4144.5
27.5°	4149.3	4111.3	4097.0	4130.3	4154.0	4306.1	4458.2	4577.1	4572.3	4524.8	4310.9
30°	4966.8	4871.7	4719.6	4548.5	4463.0	4567.5	4710.1	4862.2	4857.5	4781.4	4515.3
32.5°	6340.4	6202.6	5841.3	5389.8	5023.8	4905.0	5038.1	5204.4	5209.2	5118.9	4843.2
35°	8265.3	8046.7	7400.3	6772.9	5936.4	5484.9	5522.9	5703.5	5760.5	5713.0	5394.6
37.5°	10118.9	9919.3	9301.4	8431.7	7295.7	6373.7	6212.1	6368.9	6435.4	6435.4	6098.0
40°	11986.8	11754.0	11207.4	10332.8	9135.1	7761.5	7181.7	7310.0	7381.3	7395.5	6953.5
42.5°	13484.0	13331.9	12913.7	12234.0	11112.3	10195.0	8579.0	8507.7	8574.3	8522.0	7946.9
45°	14520.1	14401.3	14111.4	13854.7	13308.2	12847.1	10446.9	9966.9	10009.6	9829.0	9063.8
47.5°	14734.0	14600.9	14539.2	14895.6	15285.4	15399.4	12742.6	11701.7	11658.9	11259.6	10223.5
50°	13802.5	13816.7	14044.9	15062.0	16687.5	17714.1	15404.2	13659.9	13503.0	12614.2	11302.4
52.5°	11792.0	12020.1	12595.2	14244.5	17115.2	19396.6	18065.8	15736.9	15494.5	13930.8	12110.4
55°	9225.4	9520.1	10465.9	12362.3	16221.7	20147.6	20309.2	17894.7	17343.4	14919.4	12737.8
57.5°	6858.5	6948.8	8051.4	9781.5	14106.6	19410.9	21459.4	19558.2	18850.0	15708.4	13360.4
60°	4272.9	4329.9	5494.4	7447.8	10684.5	16687.5	21459.4	20703.7	20028.8	16416.6	13930.8
62.5°	2656.9	2675.9	3113.2	5104.6	7262.4	12376.6	20570.6	21592.5	21050.6	16925.1	14420.3
65°	1530.4	1549.4	1753.8	2885.0	4724.4	7409.8	18298.7	21853.9	21611.5	17329.1	14800.6
67.5°	1116.9	1126.4	1207.2	1620.7	3089.4	3807.1	13745.4	20803.5	21107.7	17528.7	14791.1
70°	969.6	983.9	1088.4	1264.3	2229.1	2338.4	6996.3	17966.0	18816.8	17243.6	14349.0
72.5°	746.2	765.2	922.1	1188.2	1635.0	1682.5	2533.3	12785.3	14073.4	15461.2	13137.0
75°	513.3	532.3	689.2	979.1	1349.8	1259.5	1392.6	5884.1	7424.0	10370.9	10000.1
77.5°	328.0	332.7	432.5	712.9	1164.5	893.5	955.3	1920.2	2694.9	4691.1	4719.6
80°	218.6	223.4	266.2	461.0	798.5	827.0	589.4	888.8	974.3	1368.8	950.6
82.5°	133.1	133.1	180.6	289.9	484.8	684.4	385.0	465.8	499.1	527.6	247.2
85°	52.3	52.3	109.3	190.1	304.2	318.4	242.4	270.9	285.2	308.9	114.1
87.5°	14.3	14.3	61.8	104.6	133.1	147.3	147.3	133.1	142.6	175.9	57.0
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°	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4	3878.4
2.5°	3859.4	3845.1	3826.1	3807.1	3788.1	3773.8	3759.6	3759.6	3750.0	3735.8	3726.3
5°	3849.9	3826.1	3783.3	3750.0	3697.8	3659.7	3631.2	3607.5	3593.2	3559.9	3555.2
7.5°	3835.6	3807.1	3745.3	3678.8	3593.2	3526.7	3460.1	3412.6	3365.1	3327.0	3317.5
10°	3811.8	3778.6	3688.3	3593.2	3474.4	3350.8	3194.0	3013.3	2847.0	2751.9	2723.4
12.5°	3811.8	3769.1	3650.2	3521.9	3350.8	3046.6	2647.4	2248.1	1939.2	1801.4	1763.3
15°	3835.6	3778.6	3621.7	3445.9	3127.4	2509.5	1863.1	1335.6	998.1	893.5	869.8
17.5°	3859.4	3778.6	3578.9	3341.3	2718.7	1820.4	1059.9	703.4	594.1	570.3	570.3
20°	3868.9	3769.1	3521.9	3146.4	2172.1	1131.2	632.1	527.6	484.8	470.5	470.5
22.5°	3906.9	3773.8	3479.1	2866.0	1578.0	665.4	499.1	442.0	399.2	385.0	385.0
25°	4002.0	3830.8	3488.6	2509.5	1012.4	503.8	423.0	366.0	323.2	304.2	304.2
27.5°	4154.0	3959.2	3540.9	2096.0	636.9	432.5	356.5	294.7	261.4	242.4	242.4
30°	4325.2	4101.8	3564.7	1620.7	475.3	366.0	289.9	232.9	209.1	194.9	190.1
32.5°	4624.6	4348.9	3545.7	1112.2	389.7	308.9	232.9	185.4	166.4	161.6	161.6
35°	5104.6	4781.4	3507.6	698.7	323.2	247.2	185.4	152.1	137.8	133.1	128.3
37.5°	5755.8	5413.6	3393.6	461.0	266.2	194.9	152.1	128.3	114.1	109.3	109.3
40°	6549.5	6136.0	3174.9	351.7	228.1	156.8	128.3	109.3	99.8	95.1	95.1
42.5°	7457.3	6939.3	2828.0	304.2	190.1	133.1	109.3	90.3	85.6	80.8	80.8
45°	8450.7	7780.5	2347.9	270.9	161.6	109.3	90.3	80.8	71.3	71.3	66.5
47.5°	9505.8	8626.5	1806.1	237.6	137.8	95.1	80.8	66.5	61.8	57.0	57.0
50°	10522.9	9382.2	1269.0	204.4	114.1	80.8	66.5	57.0	52.3	47.5	47.5
52.5°	11240.6	9838.5	898.3	175.9	95.1	71.3	52.3	42.8	38.0	38.0	38.0
55°	11815.7	10123.7	627.4	147.3	80.8	61.8	42.8	33.3	33.3	28.5	28.5
57.5°	12357.6	10309.1	461.0	123.6	66.5	47.5	33.3	23.8	23.8	19.0	19.0
60°	12918.4	10408.9	351.7	99.8	57.0	38.0	23.8	19.0	14.3	14.3	14.3
62.5°	13484.0	10470.7	270.9	80.8	47.5	28.5	19.0	14.3	9.5	4.8	4.8
65°	13978.3	10489.7	209.1	61.8	38.0	19.0	14.3	4.8	0.0	0.0	0.0
67.5°	14125.7	10271.0	161.6	47.5	28.5	14.3	9.5	0.0	0.0	0.0	0.0
70°	13726.4	9691.2	123.6	38.0	23.8	9.5	4.8	0.0	0.0	0.0	0.0
72.5°	12181.7	8127.5	95.1	23.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0
75°	8716.8	4334.7	66.5	19.0	14.3	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	4011.5	1677.8	47.5	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0
80°	784.2	418.3	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	180.6	71.3	9.5	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.8	23.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	9.5	4.8	0.0	0.0	0.0	0.0	0.0	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	0.0

(END OF REPORT)