

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: P381322

Luminaire Tested: **PRV-XL-PA4A-740-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-740-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24279 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

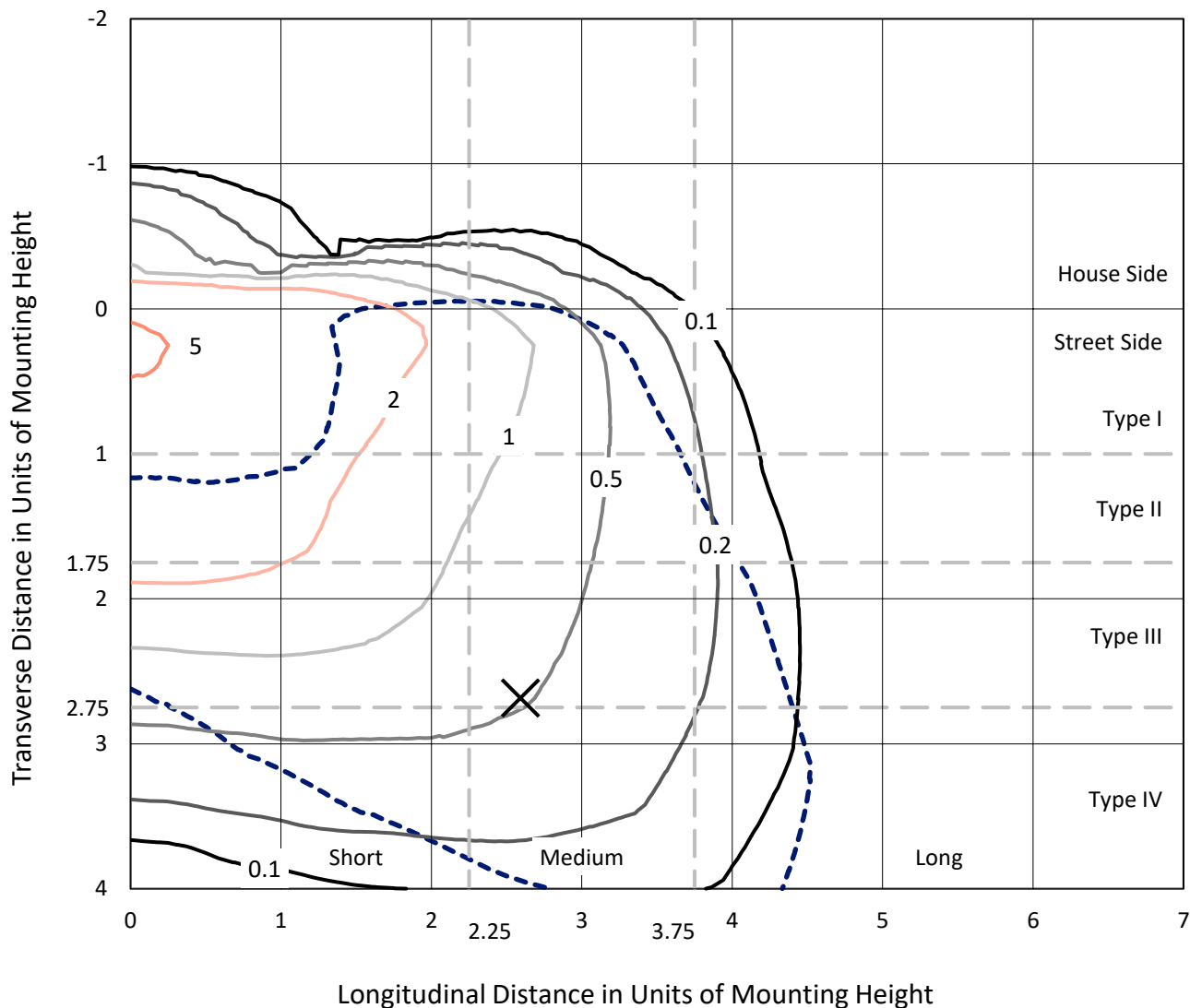
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

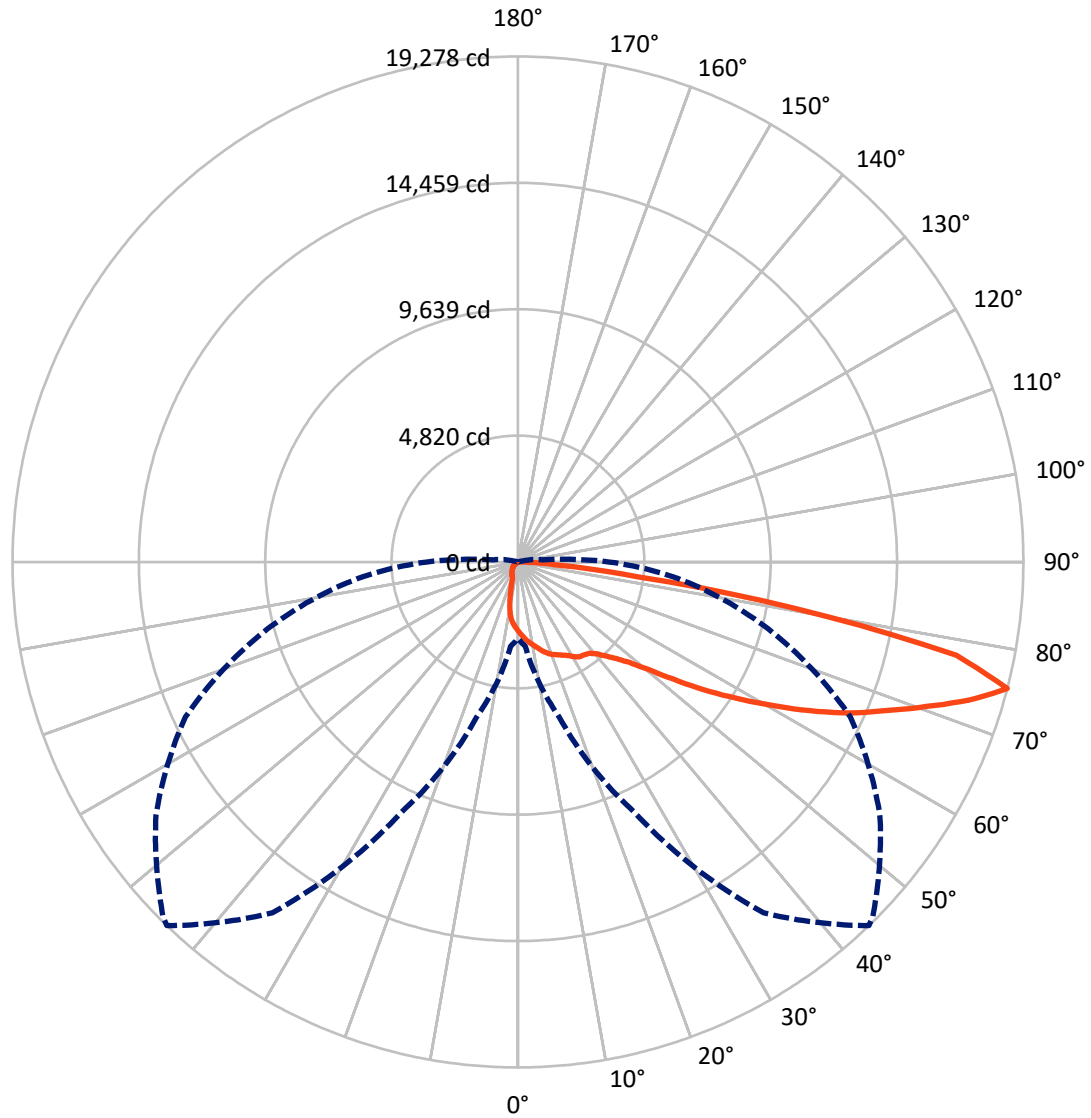
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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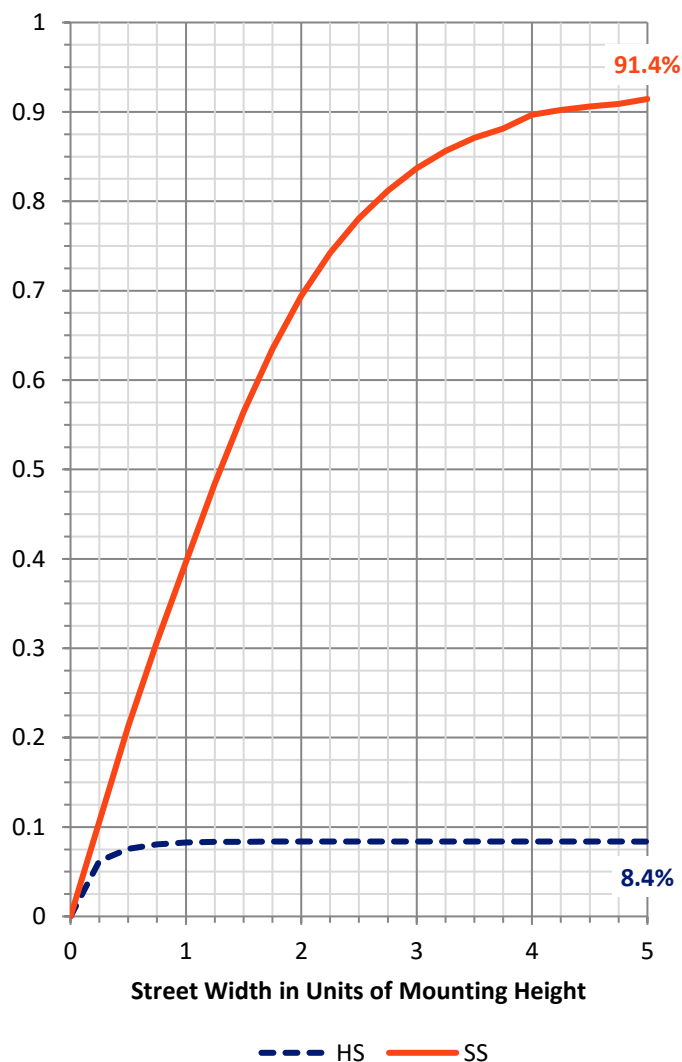
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.5	0.0	2047.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22231.5	0.0	22231.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	24279.0	0.0	24279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	1.0
10°-20°	698.4	2.9
20°-30°	1152.5	4.7
30°-40°	1672.7	6.9
40°-50°	2719.1	11.2
50°-60°	4793.5	19.7
60°-70°	6889.2	28.4
70°-80°	5516.7	22.7
80°-90°	587.8	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°	24279.0	100.0
0°-180°	24279.0	100.0

Coefficient of Utilization



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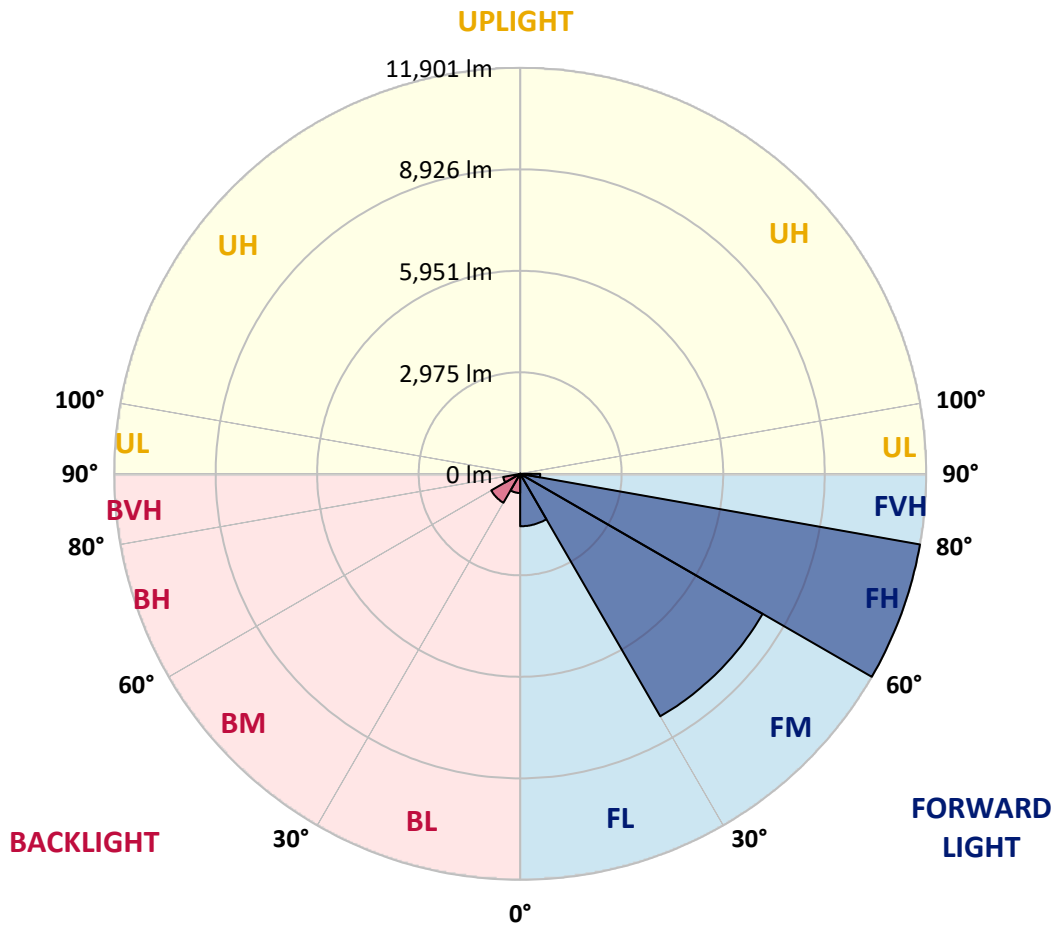
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.5	6.3			
FM (30°-60°)	8206.5	33.8			
FH (60°-80°)	11901.1	49.0			G4/12000
FVH (80°-90°)	586.3	2.4			G4/750
BL (0°-30°)	562.5	2.3	B2/1000		
BM (30°-60°)	978.7	4.0	B1/1000		
BH (60°-80°)	504.8	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.5	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7
2.5°	2880.1	2875.6	2862.2	2839.8	2817.4	2795.0	2790.5	2754.7	2714.3	2683.0	2656.1
5°	3135.4	3130.9	3108.5	3059.2	3010.0	2951.7	2947.3	2862.2	2786.0	2700.9	2629.2
7.5°	3399.6	3390.7	3350.4	3274.2	3189.1	3099.5	3090.6	2965.2	2853.2	2741.2	2638.2
10°	3605.7	3596.7	3538.5	3448.9	3332.5	3220.5	3207.0	3077.2	2965.2	2821.8	2683.0
12.5°	3807.2	3789.3	3713.2	3614.6	3471.3	3363.8	3350.4	3216.0	3081.6	2933.8	2763.6
15°	3995.4	3973.0	3901.3	3775.9	3623.6	3520.6	3511.6	3368.3	3229.4	3059.2	2871.1
17.5°	4125.3	4116.3	4031.2	3892.3	3744.5	3659.4	3650.5	3502.7	3363.8	3184.6	2983.1
20°	4192.5	4192.5	4111.8	3959.5	3825.2	3766.9	3753.5	3614.6	3480.3	3310.1	3099.5
22.5°	4205.9	4219.3	4156.6	3990.9	3892.3	3843.1	3834.1	3713.2	3583.3	3426.5	3229.4
25°	4232.8	4232.8	4201.4	4022.2	3950.6	3937.1	3932.7	3825.2	3708.7	3551.9	3359.3
27.5°	4264.1	4264.1	4241.7	4067.0	4040.2	4035.7	4031.2	3981.9	3887.9	3704.2	3511.6
30°	4344.7	4349.2	4331.3	4156.6	4138.7	4188.0	4196.9	4170.1	4053.6	3825.2	3668.4
32.5°	4546.3	4506.0	4456.7	4219.3	4250.7	4313.4	4317.9	4264.1	4138.7	3955.1	3856.5
35°	5052.4	4815.0	4591.1	4273.1	4286.5	4349.2	4358.2	4353.7	4277.6	4120.8	4071.5
37.5°	5522.7	5186.8	4868.8	4398.5	4353.7	4420.9	4438.8	4514.9	4456.7	4349.2	4362.7
40°	5796.0	5666.1	5442.1	4743.4	4488.1	4591.1	4609.0	4725.5	4703.1	4658.3	4743.4
42.5°	6638.0	6647.0	6405.1	5258.5	4734.4	4900.2	4922.5	5016.6	5048.0	5070.4	5276.4
45°	7614.5	7645.8	7587.6	6185.7	5200.3	5254.0	5285.4	5410.8	5527.2	5670.6	6046.8
47.5°	8788.0	8761.1	8546.1	7318.9	6011.0	5710.9	5733.3	5975.1	6176.7	6490.2	7027.7
50°	9827.2	9894.4	9486.8	8375.9	7153.1	6432.0	6409.6	6647.0	7009.8	7448.8	8125.1
52.5°	10875.3	10776.7	10225.8	9424.1	8505.8	7412.9	7345.7	7475.6	7986.3	8505.8	9200.1
55°	11153.0	11162.0	10973.8	10570.7	9634.6	8604.4	8492.4	8483.4	9119.5	9473.3	10328.8
57.5°	11699.4	11721.8	11766.6	11847.3	11403.8	9795.8	9679.4	9553.9	10172.1	10378.1	11462.1
60°	12254.9	12281.7	12555.0	12989.4	12693.8	11081.3	10955.9	10660.3	11005.2	11282.9	12653.5
62.5°	12183.2	12371.3	13164.1	14028.6	13992.8	12492.2	12335.5	11623.3	11842.8	12084.6	13746.4
65°	11000.7	11202.3	12985.0	14315.2	15296.2	13885.3	13629.9	12617.7	12631.1	12922.2	14799.0
67.5°	9943.6	10163.1	11865.2	14194.3	16156.2	15134.9	14870.7	13616.5	13406.0	13889.7	15363.4
70°	9334.5	9553.9	10973.8	13818.1	16398.0	16519.0	16290.5	14758.7	14328.7	14772.1	14731.8
72.5°	7305.4	7650.3	9836.1	13101.4	16657.8	18001.6	17822.4	16205.4	15112.5	13849.4	11215.7
75°	2911.4	3229.4	6140.9	10543.8	16330.8	19278.1	19139.3	16854.9	13988.3	9889.9	5742.2
77.5°	877.9	940.6	1706.5	5213.7	11972.7	17092.3	17047.5	14171.9	9898.8	4591.1	1567.7
80°	291.1	322.5	524.1	1437.8	5464.5	10678.2	10879.8	9029.9	4497.0	1052.6	318.0
82.5°	120.9	134.4	264.3	577.8	1935.0	4600.0	4532.9	4044.6	1567.7	654.0	116.5
85°	31.4	40.3	120.9	331.5	707.7	1585.6	1666.2	1357.2	886.9	542.0	35.8
87.5°	0.0	0.0	58.2	134.4	318.0	479.3	501.7	412.1	501.7	407.6	17.9
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°	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7	2642.7
2.5°	2633.7	2611.3	2571.0	2544.1	2508.3	2499.3	2481.4	2459.0	2454.6	2432.2	2436.6
5°	2588.9	2553.1	2481.4	2432.2	2373.9	2356.0	2324.7	2302.3	2284.3	2253.0	2257.5
7.5°	2580.0	2526.2	2427.7	2333.6	2239.6	2172.4	2078.3	2002.2	1939.5	1872.3	1885.7
10°	2611.3	2544.1	2405.3	2275.4	2105.2	1890.2	1643.8	1482.6	1402.0	1321.3	1330.3
12.5°	2674.0	2593.4	2414.2	2217.2	1872.3	1505.0	1164.6	945.1	886.9	851.0	855.5
15°	2768.1	2669.6	2441.1	2105.2	1558.7	1088.4	774.9	680.8	703.2	716.7	716.7
17.5°	2866.6	2754.7	2463.5	1903.6	1204.9	761.4	631.6	622.6	654.0	685.3	685.3
20°	2987.6	2844.2	2468.0	1648.3	868.9	618.1	595.7	595.7	618.1	654.0	654.0
22.5°	3104.0	2942.8	2427.7	1357.2	662.9	573.3	573.3	573.3	586.8	622.6	627.1
25°	3242.9	3063.7	2342.6	1048.1	568.8	546.5	546.5	550.9	559.9	591.2	595.7
27.5°	3390.7	3189.1	2199.2	765.9	519.6	515.1	519.6	524.1	528.5	559.9	568.8
30°	3560.9	3328.0	2015.6	573.3	474.8	474.8	488.2	497.2	497.2	524.1	533.0
32.5°	3758.0	3511.6	1796.1	474.8	430.0	425.5	447.9	461.3	461.3	483.7	492.7
35°	4004.3	3699.7	1531.9	421.0	394.2	385.2	394.2	416.6	425.5	443.4	447.9
37.5°	4331.3	3923.7	1249.7	389.7	367.3	349.4	349.4	353.8	371.8	389.7	394.2
40°	4747.9	4170.1	972.0	367.3	340.4	322.5	309.1	304.6	300.1	313.5	322.5
42.5°	5271.9	4447.8	725.6	344.9	318.0	291.1	273.2	255.3	232.9	228.4	232.9
45°	5943.8	4788.2	537.5	327.0	304.6	264.3	232.9	201.6	161.2	147.8	152.3
47.5°	6736.6	5142.0	421.0	309.1	295.6	232.9	192.6	138.9	98.5	89.6	94.1
50°	7578.7	5482.4	358.3	286.7	277.7	201.6	138.9	85.1	58.2	58.2	62.7
52.5°	8295.3	5675.0	327.0	268.7	250.8	165.7	89.6	49.3	35.8	35.8	40.3
55°	8989.6	5778.1	304.6	250.8	215.0	116.5	49.3	31.4	22.4	22.4	22.4
57.5°	9706.2	5822.8	277.7	228.4	170.2	71.7	26.9	17.9	13.4	13.4	13.4
60°	10342.3	5737.7	237.4	188.1	112.0	35.8	13.4	13.4	9.0	4.5	4.5
62.5°	10875.3	5576.5	165.7	134.4	67.2	17.9	9.0	4.5	0.0	0.0	0.0
65°	11202.3	5316.7	107.5	89.6	40.3	13.4	4.5	0.0	0.0	0.0	0.0
67.5°	11108.2	4828.5	67.2	58.2	17.9	9.0	4.5	0.0	0.0	0.0	0.0
70°	10024.3	3959.5	49.3	35.8	13.4	4.5	0.0	0.0	0.0	0.0	0.0
72.5°	7224.8	2678.5	35.8	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3475.8	954.1	22.4	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	851.0	210.5	13.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	188.1	40.3	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.7	17.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	4.5	0.0	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)