

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: P381378

Luminaire Tested: **PRV-XL-PA4A-730-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381378
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-PA4A-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA 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: 21609 lumens
Efficiency: N/A
Efficacy: 88.2 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

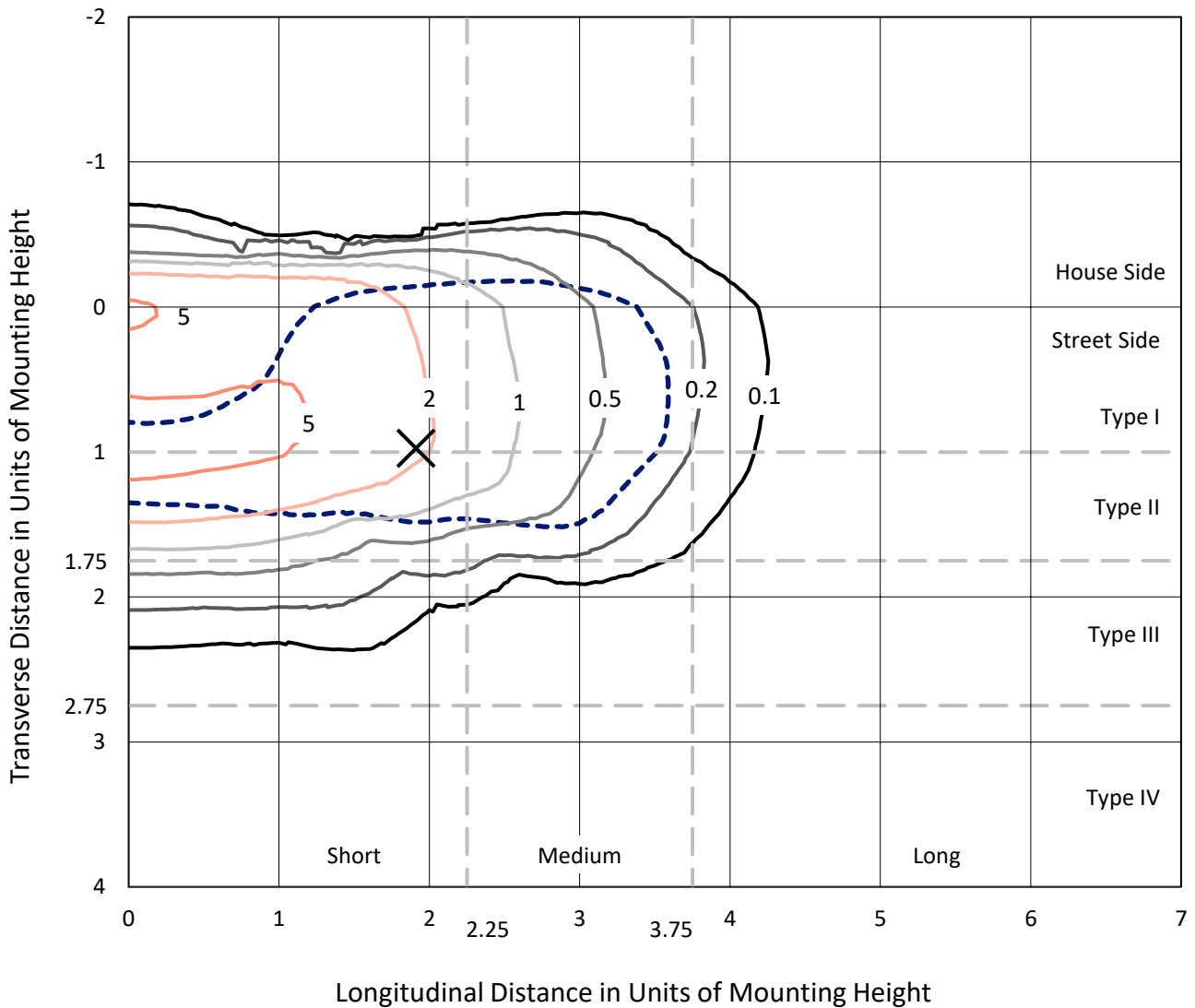
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

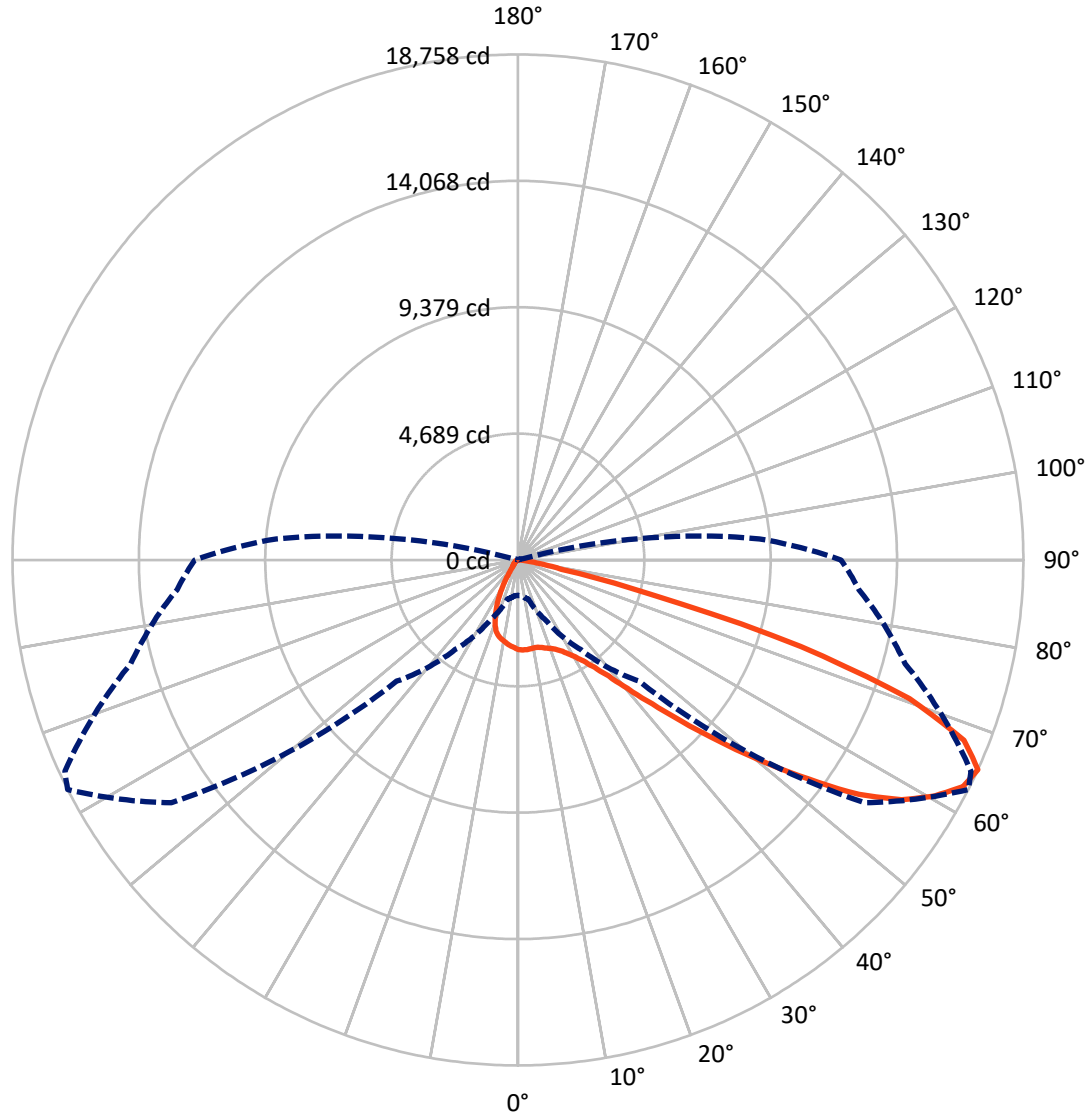
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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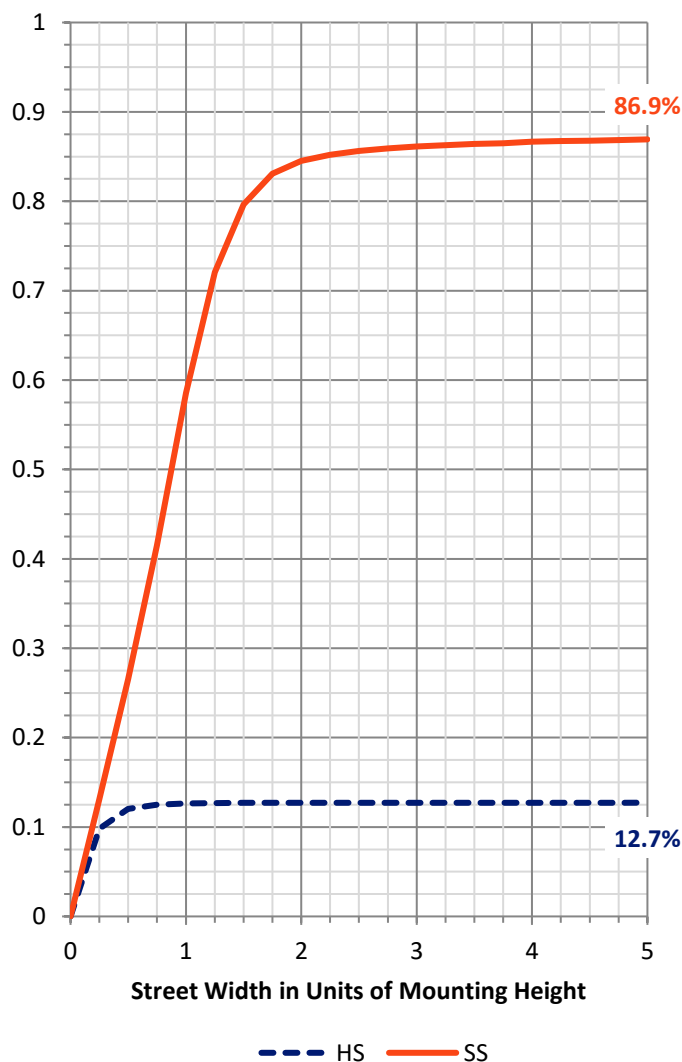
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.1	0.0	2781.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	18828.0	0.0	18828.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	21609.0	0.0	21609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.4
10°-20°	749.3	3.5
20°-30°	1110.6	5.1
30°-40°	2062.2	9.5
40°-50°	4368.6	20.2
50°-60°	6040.6	28.0
60°-70°	4835.7	22.4
70°-80°	2009.1	9.3
80°-90°	129.0	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°	21609.0	100.0
0°-180°	21609.0	100.0

Coefficient of Utilization

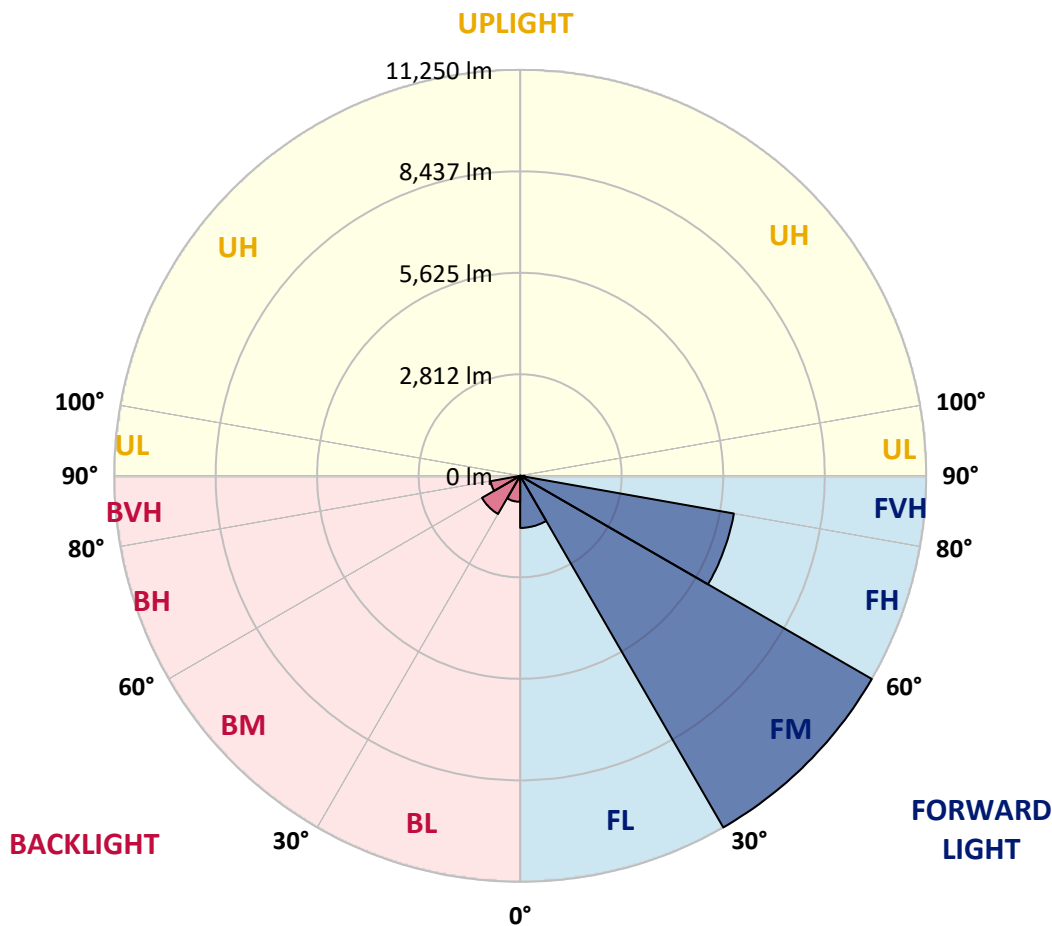


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.0	6.7			
FM (30°-60°)	11249.7	52.1			
FH (60°-80°)	6012.1	27.8			G3/7500
FVH (80°-90°)	123.1	0.6			G2/225
BL (0°-30°)	720.8	3.3	B2/1000		
BM (30°-60°)	1221.7	5.7	B2/2500		
BH (60°-80°)	832.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.9	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°	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9
2.5°	3386.0	3377.8	3369.7	3365.6	3365.6	3361.5	3345.2	3341.1	3333.0	3324.8	3316.6
5°	3353.4	3341.1	3337.0	3341.1	3345.2	3353.4	3345.2	3345.2	3337.0	3328.9	3312.6
7.5°	3271.8	3263.6	3267.7	3279.9	3284.0	3312.6	3316.6	3328.9	3328.9	3320.7	3308.5
10°	3173.9	3169.8	3169.8	3190.2	3210.6	3251.4	3279.9	3312.6	3316.6	3316.6	3296.2
12.5°	3100.4	3096.3	3108.6	3133.1	3173.9	3226.9	3275.8	3324.8	3333.0	3337.0	3304.4
15°	3055.6	3055.6	3071.9	3120.8	3177.9	3251.4	3308.5	3373.8	3381.9	3377.8	3333.0
17.5°	3014.8	3018.8	3051.5	3133.1	3198.3	3296.2	3365.6	3439.0	3443.1	3439.0	3365.6
20°	2998.4	3006.6	3055.6	3161.6	3235.0	3345.2	3434.9	3508.4	3512.5	3496.1	3398.2
22.5°	3043.3	3047.4	3108.6	3222.8	3292.2	3414.5	3528.8	3598.1	3602.2	3577.7	3447.2
25°	3198.3	3198.3	3251.4	3349.3	3410.5	3532.9	3655.2	3736.8	3736.8	3708.3	3557.3
27.5°	3561.4	3528.8	3516.5	3545.1	3565.5	3696.0	3826.6	3928.6	3924.5	3883.7	3700.1
30°	4263.1	4181.5	4051.0	3904.1	3830.7	3920.4	4042.8	4173.3	4169.3	4104.0	3875.5
32.5°	5442.1	5323.8	5013.7	4626.2	4312.0	4210.1	4324.3	4467.1	4471.1	4393.6	4157.0
35°	7094.3	6906.6	6351.8	5813.3	5095.3	4707.8	4740.4	4895.4	4944.4	4903.6	4630.2
37.5°	8685.3	8513.9	7983.6	7237.0	6262.0	5470.6	5331.9	5466.5	5523.7	5523.7	5234.0
40°	10288.5	10088.6	9619.5	8868.8	7840.8	6661.8	6164.1	6274.3	6335.5	6347.7	5968.3
42.5°	11573.6	11443.0	11084.0	10500.7	9537.9	8750.5	7363.5	7302.3	7359.4	7314.6	6820.9
45°	12462.9	12360.9	12112.1	11891.8	11422.6	11026.9	8966.8	8554.7	8591.4	8436.4	7779.6
47.5°	12646.5	12532.2	12479.2	12785.2	13119.7	13217.6	10937.2	10043.7	10007.0	9664.4	8775.0
50°	11846.9	11859.1	12054.9	12928.0	14323.2	15204.3	13221.7	11724.5	11589.9	10827.0	9701.1
52.5°	10121.3	10317.1	10810.7	12226.3	14690.3	16648.5	15506.2	13507.2	13299.2	11957.0	10394.6
55°	7918.3	8171.3	8983.1	10610.8	13923.4	17293.0	17431.7	15359.3	14886.1	12805.6	10933.1
57.5°	5886.7	5964.2	6910.7	8395.6	12108.0	16660.7	18419.0	16787.2	16179.3	13482.8	11467.5
60°	3667.5	3716.4	4715.9	6392.6	9170.7	14323.2	18419.0	17770.3	17191.0	14090.6	11957.0
62.5°	2280.4	2296.8	2672.1	4381.4	6233.5	10623.0	17656.1	18533.2	18068.1	14527.1	12377.2
65°	1313.6	1329.9	1505.3	2476.3	4055.0	6360.0	15706.1	18757.6	18549.5	14873.9	12703.6
67.5°	958.7	966.8	1036.2	1391.1	2651.7	3267.7	11797.9	17856.0	18117.1	15045.2	12695.4
70°	832.2	844.5	934.2	1085.1	1913.3	2007.1	6005.0	15420.5	16150.8	14800.5	12316.0
72.5°	640.5	656.8	791.4	1019.9	1403.4	1444.1	2174.4	10973.9	12079.4	13270.6	11275.8
75°	440.6	456.9	591.5	840.4	1158.6	1081.1	1195.3	5050.4	6372.2	8901.5	8583.3
77.5°	281.5	285.6	371.2	611.9	999.5	766.9	820.0	1648.1	2313.1	4026.5	4051.0
80°	187.7	191.7	228.5	395.7	685.4	709.8	505.9	762.9	836.3	1174.9	815.9
82.5°	114.2	114.2	155.0	248.8	416.1	587.4	330.4	399.8	428.3	452.8	212.1
85°	44.9	44.9	93.8	163.2	261.1	273.3	208.1	232.5	244.8	265.2	97.9
87.5°	12.2	12.2	53.0	89.7	114.2	126.5	126.5	114.2	122.4	150.9	49.0
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°	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9	3328.9
2.5°	3312.6	3300.3	3284.0	3267.7	3251.4	3239.1	3226.9	3226.9	3218.7	3206.5	3198.3
5°	3304.4	3284.0	3247.3	3218.7	3173.9	3141.2	3116.7	3096.3	3084.1	3055.6	3051.5
7.5°	3292.2	3267.7	3214.7	3157.5	3084.1	3027.0	2969.9	2929.1	2888.3	2855.7	2847.5
10°	3271.8	3243.2	3165.7	3084.1	2982.1	2876.1	2741.4	2586.4	2443.6	2362.0	2337.6
12.5°	3271.8	3235.0	3133.1	3022.9	2876.1	2615.0	2272.3	1929.6	1664.4	1546.1	1513.5
15°	3292.2	3243.2	3108.6	2957.6	2684.3	2154.0	1599.2	1146.3	856.7	766.9	746.5
17.5°	3312.6	3243.2	3071.9	2867.9	2333.5	1562.5	909.7	603.8	509.9	489.5	489.5
20°	3320.7	3235.0	3022.9	2700.6	1864.3	970.9	542.6	452.8	416.1	403.9	403.9
22.5°	3353.4	3239.1	2986.2	2459.9	1354.4	571.1	428.3	379.4	342.7	330.4	330.4
25°	3434.9	3288.1	2994.4	2154.0	868.9	432.4	363.1	314.1	277.4	261.1	261.1
27.5°	3565.5	3398.2	3039.2	1799.1	546.7	371.2	306.0	252.9	224.4	208.1	208.1
30°	3712.4	3520.6	3059.6	1391.1	408.0	314.1	248.8	199.9	179.5	167.3	163.2
32.5°	3969.4	3732.7	3043.3	954.6	334.5	265.2	199.9	159.1	142.8	138.7	138.7
35°	4381.4	4104.0	3010.7	599.7	277.4	212.1	159.1	130.5	118.3	114.2	110.1
37.5°	4940.3	4646.6	2912.8	395.7	228.5	167.3	130.5	110.1	97.9	93.8	93.8
40°	5621.6	5266.6	2725.1	301.9	195.8	134.6	110.1	93.8	85.7	81.6	81.6
42.5°	6400.7	5956.1	2427.3	261.1	163.2	114.2	93.8	77.5	73.4	69.4	69.4
45°	7253.4	6678.2	2015.3	232.5	138.7	93.8	77.5	69.4	61.2	61.2	57.1
47.5°	8159.0	7404.3	1550.2	204.0	118.3	81.6	69.4	57.1	53.0	49.0	49.0
50°	9032.0	8052.9	1089.2	175.4	97.9	69.4	57.1	49.0	44.9	40.8	40.8
52.5°	9648.0	8444.6	771.0	150.9	81.6	61.2	44.9	36.7	32.6	32.6	32.6
55°	10141.7	8689.4	538.5	126.5	69.4	53.0	36.7	28.6	28.6	24.5	24.5
57.5°	10606.7	8848.5	395.7	106.1	57.1	40.8	28.6	20.4	20.4	16.3	16.3
60°	11088.1	8934.1	301.9	85.7	49.0	32.6	20.4	16.3	12.2	12.2	12.2
62.5°	11573.6	8987.2	232.5	69.4	40.8	24.5	16.3	12.2	8.2	4.1	4.1
65°	11997.8	9003.5	179.5	53.0	32.6	16.3	12.2	4.1	0.0	0.0	0.0
67.5°	12124.3	8815.8	138.7	40.8	24.5	12.2	8.2	0.0	0.0	0.0	0.0
70°	11781.6	8318.1	106.1	32.6	20.4	8.2	4.1	0.0	0.0	0.0	0.0
72.5°	10455.8	6976.0	81.6	20.4	16.3	8.2	4.1	0.0	0.0	0.0	0.0
75°	7481.8	3720.5	57.1	16.3	12.2	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	3443.1	1440.1	40.8	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	673.1	359.0	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	155.0	61.2	8.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.0	20.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	8.2	4.1	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)