

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: STREETWORKS

Report Number: P400220

Luminaire Tested: **ARCH-L-PA3-250-740-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-740-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1070mA 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: 23187 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

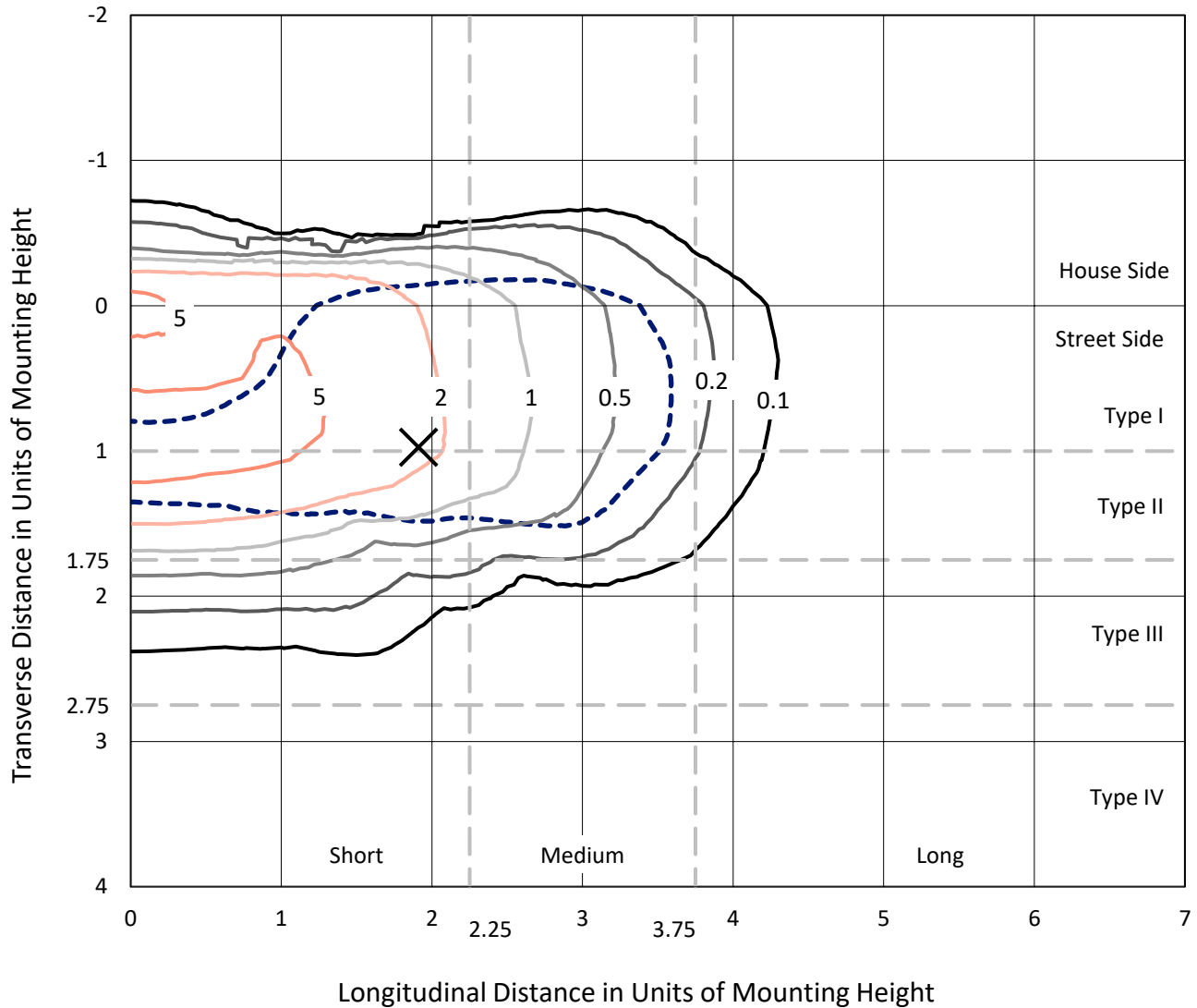
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400220
 CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

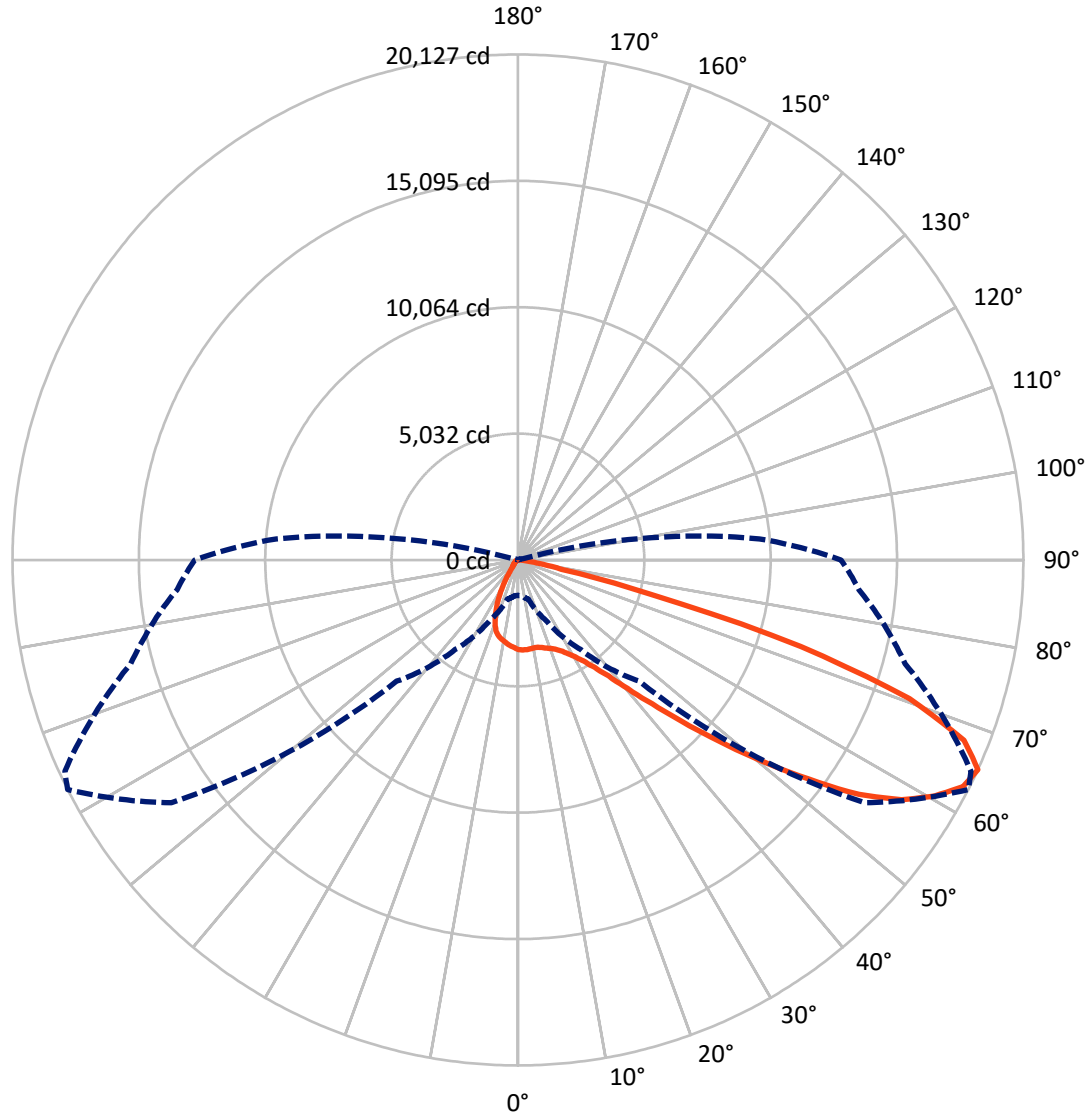
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

REPORT NUMBER: P400220
CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400220
 CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

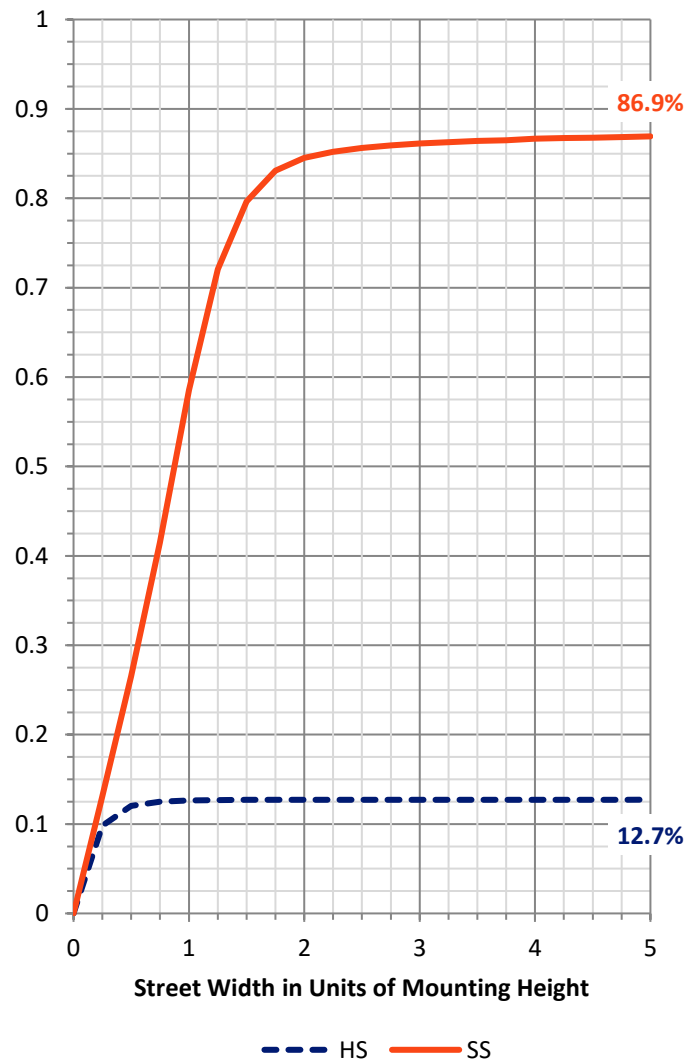
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.1	0.0	2984.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	20202.9	0.0	20202.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	23187.0	0.0	23187.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	1.4
10°-20°	804.0	3.5
20°-30°	1191.8	5.1
30°-40°	2212.8	9.5
40°-50°	4687.6	20.2
50°-60°	6481.8	28.0
60°-70°	5188.9	22.4
70°-80°	2155.8	9.3
80°-90°	138.4	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°	23187.0	100.0
0°-180°	23187.0	100.0



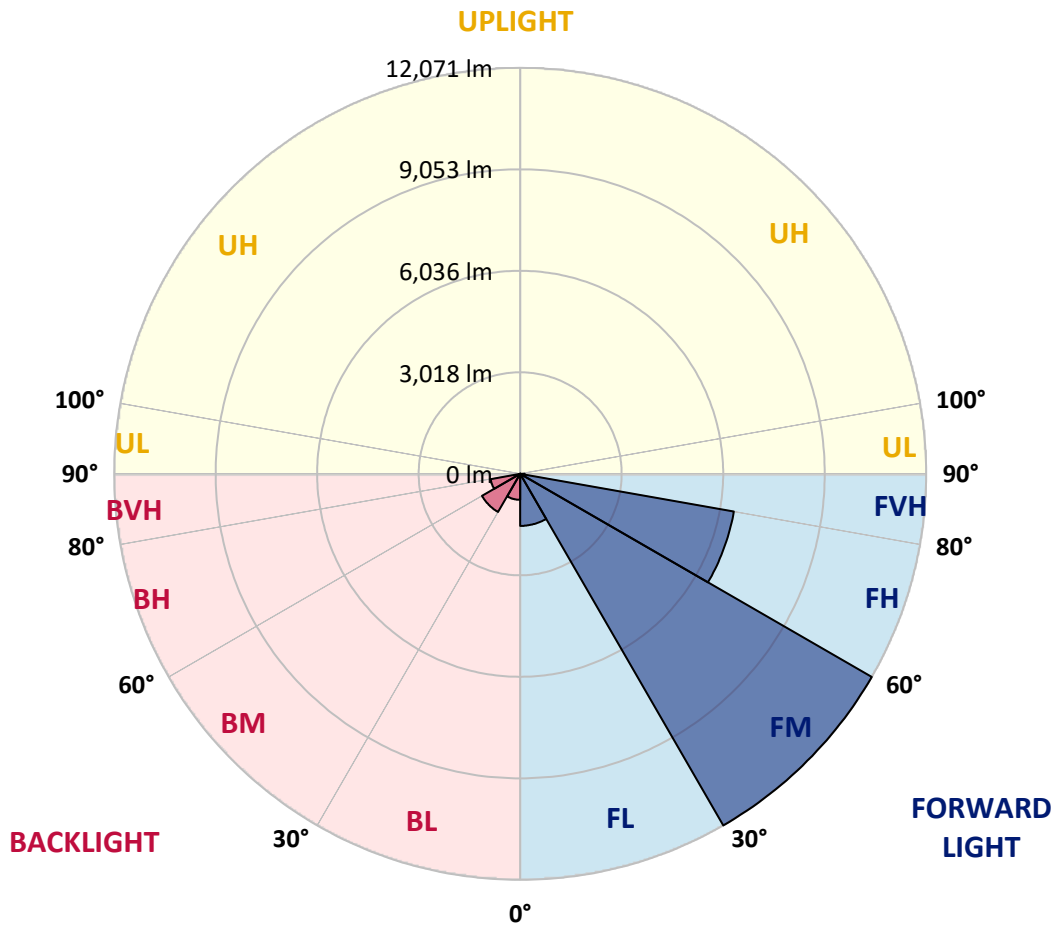
REPORT NUMBER: P400220
 CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.3	6.7			
FM (30°-60°)	12071.3	52.1			
FH (60°-80°)	6451.1	27.8			G3/7500
FVH (80°-90°)	132.1	0.6			G2/225
BL (0°-30°)	773.4	3.3	B2/1000		
BM (30°-60°)	1310.9	5.7	B2/2500		
BH (60°-80°)	893.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.3	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





REPORT NUMBER: P400220

CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0
2.5°	3633.3	3624.5	3615.7	3611.4	3611.4	3607.0	3589.5	3585.1	3576.3	3567.6	3558.8
5°	3598.2	3585.1	3580.7	3585.1	3589.5	3598.2	3589.5	3589.5	3580.7	3572.0	3554.5
7.5°	3510.7	3501.9	3506.3	3519.4	3523.8	3554.5	3558.8	3572.0	3572.0	3563.2	3550.1
10°	3405.6	3401.3	3401.3	3423.1	3445.0	3488.8	3519.4	3554.5	3558.8	3558.8	3537.0
12.5°	3326.8	3322.5	3335.6	3361.9	3405.6	3462.5	3515.1	3567.6	3576.3	3580.7	3545.7
15°	3278.7	3278.7	3296.2	3348.7	3410.0	3488.8	3550.1	3620.1	3628.9	3624.5	3576.3
17.5°	3234.9	3239.3	3274.3	3361.9	3431.9	3537.0	3611.4	3690.2	3694.5	3690.2	3611.4
20°	3217.4	3226.2	3278.7	3392.5	3471.3	3589.5	3685.8	3764.6	3769.0	3751.4	3646.4
22.5°	3265.6	3269.9	3335.6	3458.2	3532.6	3663.9	3786.5	3860.9	3865.3	3839.0	3698.9
25°	3431.9	3431.9	3488.8	3593.9	3659.5	3790.8	3922.2	4009.7	4009.7	3979.1	3817.1
27.5°	3821.5	3786.5	3773.3	3804.0	3825.9	3965.9	4106.0	4215.4	4211.1	4167.3	3970.3
30°	4574.4	4486.8	4346.8	4189.2	4110.4	4206.7	4338.0	4478.1	4473.7	4403.7	4158.5
32.5°	5839.5	5712.5	5379.8	4964.0	4626.9	4517.5	4640.1	4793.3	4797.6	4714.5	4460.6
35°	7612.3	7411.0	6815.6	6237.8	5467.4	5051.5	5086.6	5252.9	5305.4	5261.7	4968.4
37.5°	9319.5	9135.7	8566.6	7765.5	6719.3	5870.1	5721.3	5865.7	5927.0	5927.0	5616.2
40°	11039.8	10825.3	10321.9	9516.5	8413.4	7148.3	6614.3	6732.5	6798.1	6811.3	6404.2
42.5°	12418.7	12278.6	11893.4	11267.5	10234.4	9389.6	7901.2	7835.6	7896.9	7848.7	7319.0
45°	13373.0	13263.6	12996.5	12760.2	12256.8	11832.1	9621.6	9179.4	9218.8	9052.5	8347.7
47.5°	13570.0	13447.4	13390.5	13718.8	14077.8	14182.8	11735.8	10777.2	10737.8	10370.1	9415.8
50°	12712.0	12725.1	12935.3	13872.0	15369.1	16314.6	14187.2	12580.7	12436.2	11617.7	10409.5
52.5°	10860.4	11070.5	11600.1	13119.1	15763.1	17864.2	16638.6	14493.6	14270.4	12830.2	11153.7
55°	8496.6	8768.0	9639.1	11385.7	14940.1	18555.9	18704.7	16481.0	15973.2	13740.7	11731.5
57.5°	6316.6	6399.8	7415.3	9008.7	12992.2	17877.4	19764.0	18013.1	17360.8	14467.4	12304.9
60°	3935.3	3987.8	5060.3	6859.4	9840.4	15369.1	19764.0	19068.0	18446.4	15119.6	12830.2
62.5°	2447.0	2464.5	2867.2	4701.3	6688.7	11398.8	18945.4	19886.6	19387.6	15588.0	13281.1
65°	1409.5	1427.0	1615.3	2657.1	4351.1	6824.4	16853.0	20127.3	19904.1	15960.1	13631.3
67.5°	1028.7	1037.4	1111.9	1492.7	2845.3	3506.3	12659.5	19159.9	19440.1	16143.9	13622.5
70°	893.0	906.1	1002.4	1164.4	2053.0	2153.7	6443.6	16546.6	17330.2	15881.3	13215.4
72.5°	687.3	704.8	849.2	1094.4	1505.8	1549.6	2333.2	11775.2	12961.5	14239.7	12099.2
75°	472.8	490.3	634.7	901.7	1243.2	1160.0	1282.6	5419.2	6837.5	9551.5	9210.1
77.5°	302.0	306.4	398.3	656.6	1072.5	823.0	879.9	1768.5	2482.0	4320.5	4346.8
80°	201.4	205.7	245.1	424.6	735.4	761.7	542.8	818.6	897.4	1260.7	875.5
82.5°	122.6	122.6	166.3	267.0	446.5	630.3	354.6	429.0	459.6	485.9	227.6
85°	48.2	48.2	100.7	175.1	280.2	293.3	223.2	249.5	262.6	284.5	105.1
87.5°	13.1	13.1	56.9	96.3	122.6	135.7	135.7	122.6	131.3	162.0	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400220

CATALOG NUMBER: ARCH-L-PA3-250-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0	3572.0
2.5°	3554.5	3541.3	3523.8	3506.3	3488.8	3475.7	3462.5	3462.5	3453.8	3440.6	3431.9
5°	3545.7	3523.8	3484.4	3453.8	3405.6	3370.6	3344.3	3322.5	3309.3	3278.7	3274.3
7.5°	3532.6	3506.3	3449.4	3388.1	3309.3	3248.0	3186.8	3143.0	3099.2	3064.2	3055.4
10°	3510.7	3480.0	3396.9	3309.3	3199.9	3086.1	2941.6	2775.3	2622.1	2534.5	2508.3
12.5°	3510.7	3471.3	3361.9	3243.7	3086.1	2805.9	2438.2	2070.5	1786.0	1659.0	1624.0
15°	3532.6	3480.0	3335.6	3173.6	2880.3	2311.3	1715.9	1230.1	919.3	823.0	801.1
17.5°	3554.5	3480.0	3296.2	3077.3	2503.9	1676.5	976.2	647.9	547.2	525.3	525.3
20°	3563.2	3471.3	3243.7	2897.8	2000.5	1041.8	582.2	485.9	446.5	433.4	433.4
22.5°	3598.2	3475.7	3204.3	2639.6	1453.3	612.8	459.6	407.1	367.7	354.6	354.6
25°	3685.8	3528.2	3213.0	2311.3	932.4	464.0	389.6	337.1	297.7	280.2	280.2
27.5°	3825.9	3646.4	3261.2	1930.4	586.6	398.3	328.3	271.4	240.8	223.2	223.2
30°	3983.4	3777.7	3283.1	1492.7	437.7	337.1	267.0	214.5	192.6	179.5	175.1
32.5°	4259.2	4005.3	3265.6	1024.3	358.9	284.5	214.5	170.7	153.2	148.8	148.8
35°	4701.3	4403.7	3230.5	643.5	297.7	227.6	170.7	140.1	126.9	122.6	118.2
37.5°	5301.0	4985.9	3125.5	424.6	245.1	179.5	140.1	118.2	105.1	100.7	100.7
40°	6032.1	5651.2	2924.1	323.9	210.1	144.5	118.2	100.7	91.9	87.5	87.5
42.5°	6868.2	6391.0	2604.6	280.2	175.1	122.6	100.7	83.2	78.8	74.4	74.4
45°	7783.0	7165.8	2162.4	249.5	148.8	100.7	83.2	74.4	65.7	65.7	61.3
47.5°	8754.8	7945.0	1663.4	218.9	126.9	87.5	74.4	61.3	56.9	52.5	52.5
50°	9691.6	8641.0	1168.8	188.2	105.1	74.4	61.3	52.5	48.2	43.8	43.8
52.5°	10352.6	9061.2	827.3	162.0	87.5	65.7	48.2	39.4	35.0	35.0	35.0
55°	10882.3	9323.9	577.8	135.7	74.4	56.9	39.4	30.6	30.6	26.3	26.3
57.5°	11381.3	9494.6	424.6	113.8	61.3	43.8	30.6	21.9	21.9	17.5	17.5
60°	11897.8	9586.5	323.9	91.9	52.5	35.0	21.9	17.5	13.1	13.1	13.1
62.5°	12418.7	9643.4	249.5	74.4	43.8	26.3	17.5	13.1	8.8	4.4	4.4
65°	12874.0	9661.0	192.6	56.9	35.0	17.5	13.1	4.4	0.0	0.0	0.0
67.5°	13009.7	9459.6	148.8	43.8	26.3	13.1	8.8	0.0	0.0	0.0	0.0
70°	12642.0	8925.5	113.8	35.0	21.9	8.8	4.4	0.0	0.0	0.0	0.0
72.5°	11219.3	7485.4	87.5	21.9	17.5	8.8	4.4	0.0	0.0	0.0	0.0
75°	8028.2	3992.2	61.3	17.5	13.1	4.4	0.0	0.0	0.0	0.0	0.0
77.5°	3694.5	1545.2	43.8	13.1	8.8	4.4	0.0	0.0	0.0	0.0	0.0
80°	722.3	385.2	17.5	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	166.3	65.7	8.8	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.9	21.9	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.9	8.8	4.4	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)