

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: P400292

Luminaire Tested: **ARCH-L-PA3-260-740-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400292
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-PA3-260-740-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA 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: 23736 lumens
Efficiency: N/A
Efficacy: 90.9 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

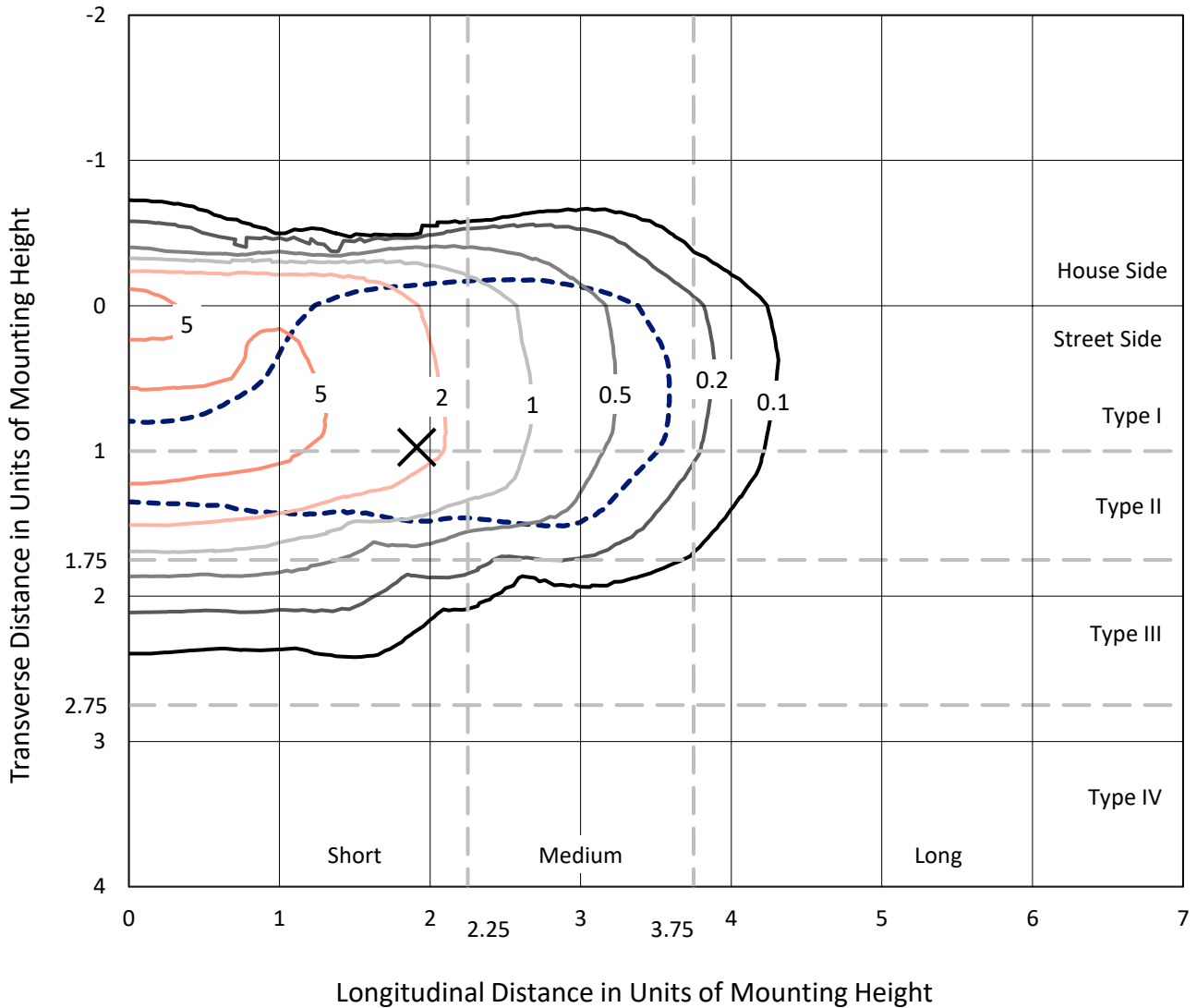
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

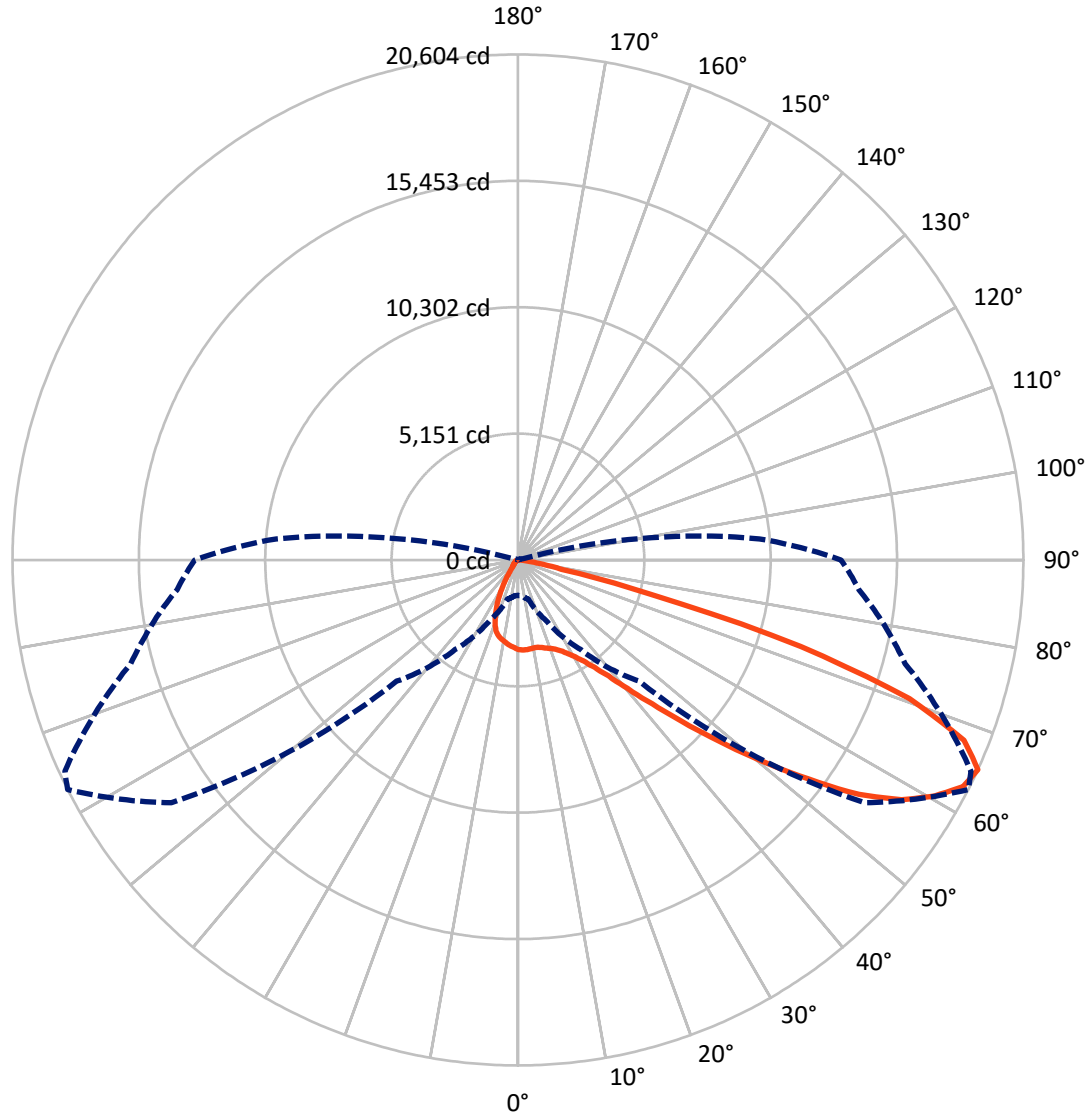
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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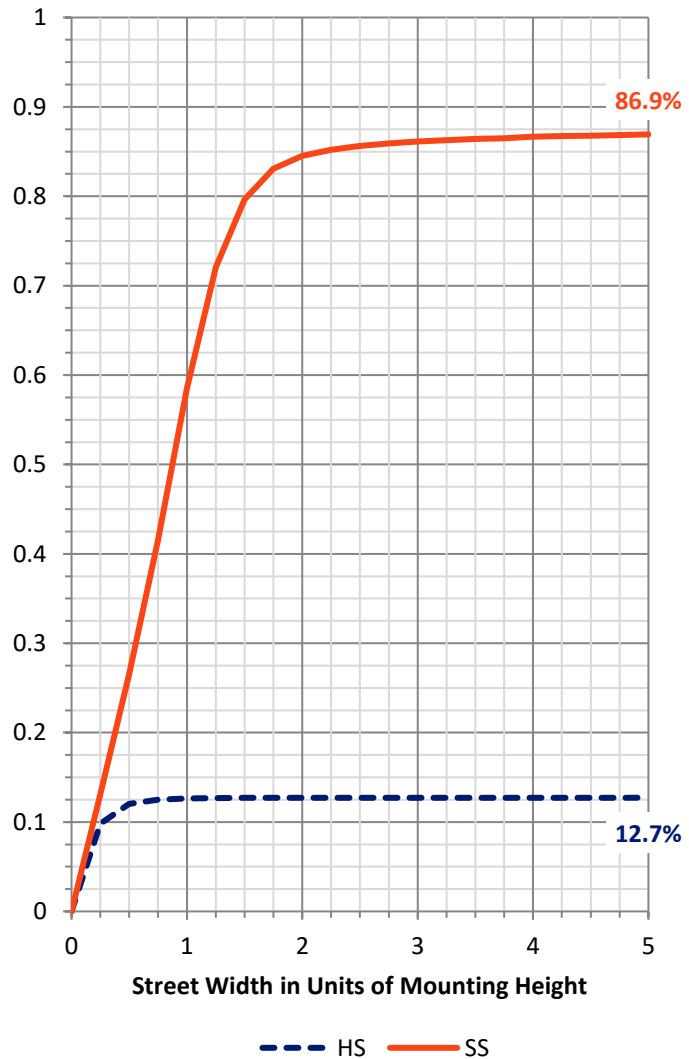
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3054.8	0.0	3054.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	20681.2	0.0	20681.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	23736.0	0.0	23736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.4
10°-20°	823.1	3.5
20°-30°	1220.0	5.1
30°-40°	2265.2	9.5
40°-50°	4798.6	20.2
50°-60°	6635.2	28.0
60°-70°	5311.7	22.4
70°-80°	2206.9	9.3
80°-90°	141.7	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°	23736.0	100.0
0°-180°	23736.0	100.0

Coefficient of Utilization



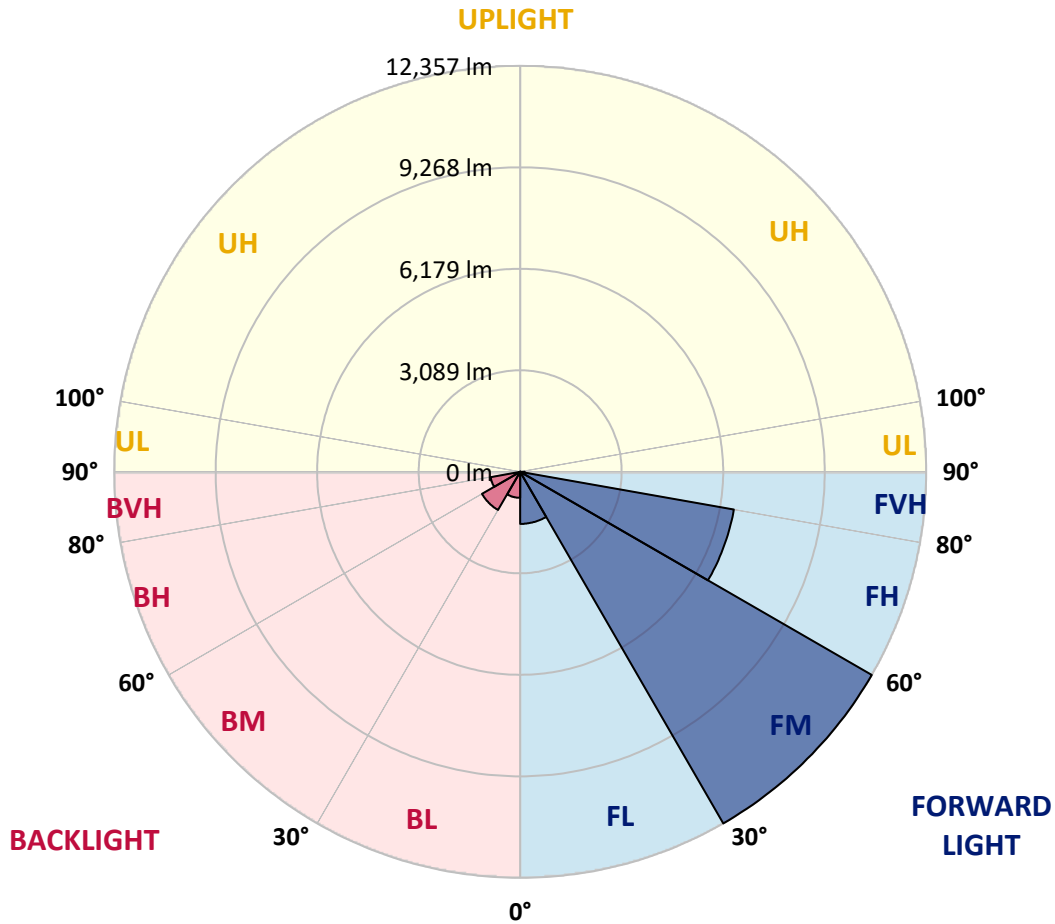
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.0	6.7			
FM (30°-60°)	12357.1	52.1			
FH (60°-80°)	6603.9	27.8			G3/7500
FVH (80°-90°)	135.2	0.6			G2/225
BL (0°-30°)	791.7	3.3	B2/1000		
BM (30°-60°)	1341.9	5.7	B2/2500		
BH (60°-80°)	914.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5
2.5°	3719.3	3710.3	3701.4	3696.9	3696.9	3692.4	3674.5	3670.0	3661.0	3652.1	3643.1
5°	3683.4	3670.0	3665.5	3670.0	3674.5	3683.4	3674.5	3674.5	3665.5	3656.5	3638.6
7.5°	3593.8	3584.8	3589.3	3602.8	3607.3	3638.6	3643.1	3656.5	3656.5	3647.6	3634.1
10°	3486.3	3481.8	3481.8	3504.2	3526.6	3571.4	3602.8	3638.6	3643.1	3643.1	3620.7
12.5°	3405.6	3401.1	3414.6	3441.5	3486.3	3544.5	3598.3	3652.1	3661.0	3665.5	3629.7
15°	3356.3	3356.3	3374.2	3428.0	3490.7	3571.4	3634.1	3705.8	3714.8	3710.3	3661.0
17.5°	3311.5	3316.0	3351.8	3441.5	3513.1	3620.7	3696.9	3777.5	3782.0	3777.5	3696.9
20°	3293.6	3302.5	3356.3	3472.8	3553.5	3674.5	3773.1	3853.7	3858.2	3840.3	3732.7
22.5°	3342.9	3347.4	3414.6	3540.0	3616.2	3750.6	3876.1	3952.3	3956.8	3929.9	3786.5
25°	3513.1	3513.1	3571.4	3678.9	3746.2	3880.6	4015.0	4104.6	4104.6	4073.3	3907.5
27.5°	3912.0	3876.1	3862.7	3894.0	3916.4	4059.8	4203.2	4315.3	4310.8	4266.0	4064.3
30°	4682.7	4593.1	4449.7	4288.4	4207.7	4306.3	4440.7	4584.1	4579.6	4507.9	4257.0
32.5°	5977.7	5847.8	5507.2	5081.5	4736.5	4624.5	4749.9	4906.8	4911.2	4826.1	4566.2
35°	7792.6	7586.4	6977.0	6385.5	5596.8	5171.1	5207.0	5377.3	5431.0	5386.2	5086.0
37.5°	9540.2	9352.0	8769.4	7949.4	6878.4	6009.1	5856.7	6004.6	6067.4	6067.4	5749.2
40°	11301.2	11081.7	10566.3	9741.8	8612.6	7317.6	6770.9	6891.9	6959.1	6972.5	6555.8
42.5°	12712.8	12569.4	12175.0	11534.2	10476.7	9611.9	8088.3	8021.1	8083.8	8034.5	7492.3
45°	13689.6	13577.6	13304.3	13062.3	12547.0	12112.3	9849.4	9396.8	9437.1	9266.8	8545.4
47.5°	13891.3	13765.8	13707.6	14043.6	14411.1	14518.6	12013.7	11032.4	10992.0	10615.6	9638.8
50°	13013.0	13026.4	13241.5	14200.5	15733.0	16700.9	14523.1	12878.6	12730.7	11892.7	10656.0
52.5°	11117.5	11332.6	11874.8	13429.7	16136.3	18287.2	17032.5	14836.8	14608.2	13134.0	11417.7
55°	8697.7	8975.6	9867.3	11655.2	15293.9	18995.2	19147.6	16871.2	16351.4	14066.0	12009.2
57.5°	6466.2	6551.3	7590.9	9222.0	13299.8	18300.6	20232.0	18439.6	17771.9	14809.9	12596.3
60°	4028.5	4082.2	5180.1	7021.8	10073.4	15733.0	20232.0	19519.5	18883.2	15477.6	13134.0
62.5°	2504.9	2522.8	2935.1	4812.7	6847.1	11668.7	19394.0	20357.4	19846.6	15957.0	13595.5
65°	1442.9	1460.8	1653.5	2720.0	4454.2	6986.0	17252.1	20603.9	20375.4	16337.9	13954.0
67.5°	1053.0	1062.0	1138.2	1528.0	2912.7	3589.3	12959.2	19613.6	19900.4	16526.1	13945.1
70°	914.1	927.6	1026.2	1192.0	2101.6	2204.7	6596.1	16938.4	17740.5	16257.3	13528.3
72.5°	703.5	721.5	869.3	1120.3	1541.5	1586.3	2388.4	12054.0	13268.4	14576.9	12385.6
75°	484.0	501.9	649.8	923.1	1272.6	1187.5	1313.0	5547.6	6999.4	9777.7	9428.1
77.5°	309.2	313.7	407.8	672.2	1097.9	842.4	900.7	1810.3	2540.8	4422.8	4449.7
80°	206.1	210.6	250.9	434.7	752.8	779.7	555.7	838.0	918.6	1290.5	896.2
82.5°	125.5	125.5	170.3	273.3	457.1	645.3	363.0	439.1	470.5	497.4	233.0
85°	49.3	49.3	103.1	179.2	286.8	300.2	228.5	255.4	268.9	291.3	107.5
87.5°	13.4	13.4	58.3	98.6	125.5	138.9	138.9	125.5	134.4	165.8	53.8
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°	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5
2.5°	3638.6	3625.2	3607.3	3589.3	3571.4	3558.0	3544.5	3544.5	3535.6	3522.1	3513.1
5°	3629.7	3607.3	3566.9	3535.6	3486.3	3450.4	3423.5	3401.1	3387.7	3356.3	3351.8
7.5°	3616.2	3589.3	3531.1	3468.3	3387.7	3324.9	3262.2	3217.4	3172.6	3136.7	3127.8
10°	3593.8	3562.4	3477.3	3387.7	3275.7	3159.1	3011.3	2841.0	2684.2	2594.5	2567.6
12.5°	3593.8	3553.5	3441.5	3320.5	3159.1	2872.4	2495.9	2119.5	1828.3	1698.3	1662.5
15°	3616.2	3562.4	3414.6	3248.8	2948.5	2366.0	1756.6	1259.2	941.0	842.4	820.0
17.5°	3638.6	3562.4	3374.2	3150.2	2563.2	1716.2	999.3	663.2	560.1	537.7	537.7
20°	3647.6	3553.5	3320.5	2966.5	2047.8	1066.5	596.0	497.4	457.1	443.6	443.6
22.5°	3683.4	3558.0	3280.1	2702.1	1487.7	627.3	470.5	416.7	376.4	363.0	363.0
25°	3773.1	3611.7	3289.1	2366.0	954.5	475.0	398.8	345.0	304.7	286.8	286.8
27.5°	3916.4	3732.7	3338.4	1976.1	600.5	407.8	336.1	277.8	246.5	228.5	228.5
30°	4077.8	3867.2	3360.8	1528.0	448.1	345.0	273.3	219.6	197.2	183.7	179.2
32.5°	4360.1	4100.2	3342.9	1048.6	367.4	291.3	219.6	174.8	156.8	152.4	152.4
35°	4812.7	4507.9	3307.0	658.7	304.7	233.0	174.8	143.4	130.0	125.5	121.0
37.5°	5426.6	5103.9	3199.5	434.7	250.9	183.7	143.4	121.0	107.5	103.1	103.1
40°	6174.9	5785.0	2993.3	331.6	215.1	147.9	121.0	103.1	94.1	89.6	89.6
42.5°	7030.8	6542.3	2666.2	286.8	179.2	125.5	103.1	85.1	80.7	76.2	76.2
45°	7967.3	7335.5	2213.6	255.4	152.4	103.1	85.1	76.2	67.2	67.2	62.7
47.5°	8962.1	8133.1	1702.8	224.1	130.0	89.6	76.2	62.7	58.3	53.8	53.8
50°	9921.1	8845.6	1196.4	192.7	107.5	76.2	62.7	53.8	49.3	44.8	44.8
52.5°	10597.7	9275.8	846.9	165.8	89.6	67.2	49.3	40.3	35.8	35.8	35.8
55°	11139.9	9544.7	591.5	138.9	76.2	58.3	40.3	31.4	31.4	26.9	26.9
57.5°	11650.8	9719.4	434.7	116.5	62.7	44.8	31.4	22.4	22.4	17.9	17.9
60°	12179.5	9813.5	331.6	94.1	53.8	35.8	22.4	17.9	13.4	13.4	13.4
62.5°	12712.8	9871.8	255.4	76.2	44.8	26.9	17.9	13.4	9.0	4.5	4.5
65°	13178.8	9889.7	197.2	58.3	35.8	17.9	13.4	4.5	0.0	0.0	0.0
67.5°	13317.7	9683.6	152.4	44.8	26.9	13.4	9.0	0.0	0.0	0.0	0.0
70°	12941.3	9136.9	116.5	35.8	22.4	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	11485.0	7662.6	89.6	22.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0
75°	8218.3	4086.7	62.7	17.9	13.4	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	3782.0	1581.8	44.8	13.4	9.0	4.5	0.0	0.0	0.0	0.0	0.0
80°	739.4	394.3	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	170.3	67.2	9.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.3	22.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	9.0	4.5	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)