

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: P400366

Luminaire Tested: **ARCH-L-PA3-270-740-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-740-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25773 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

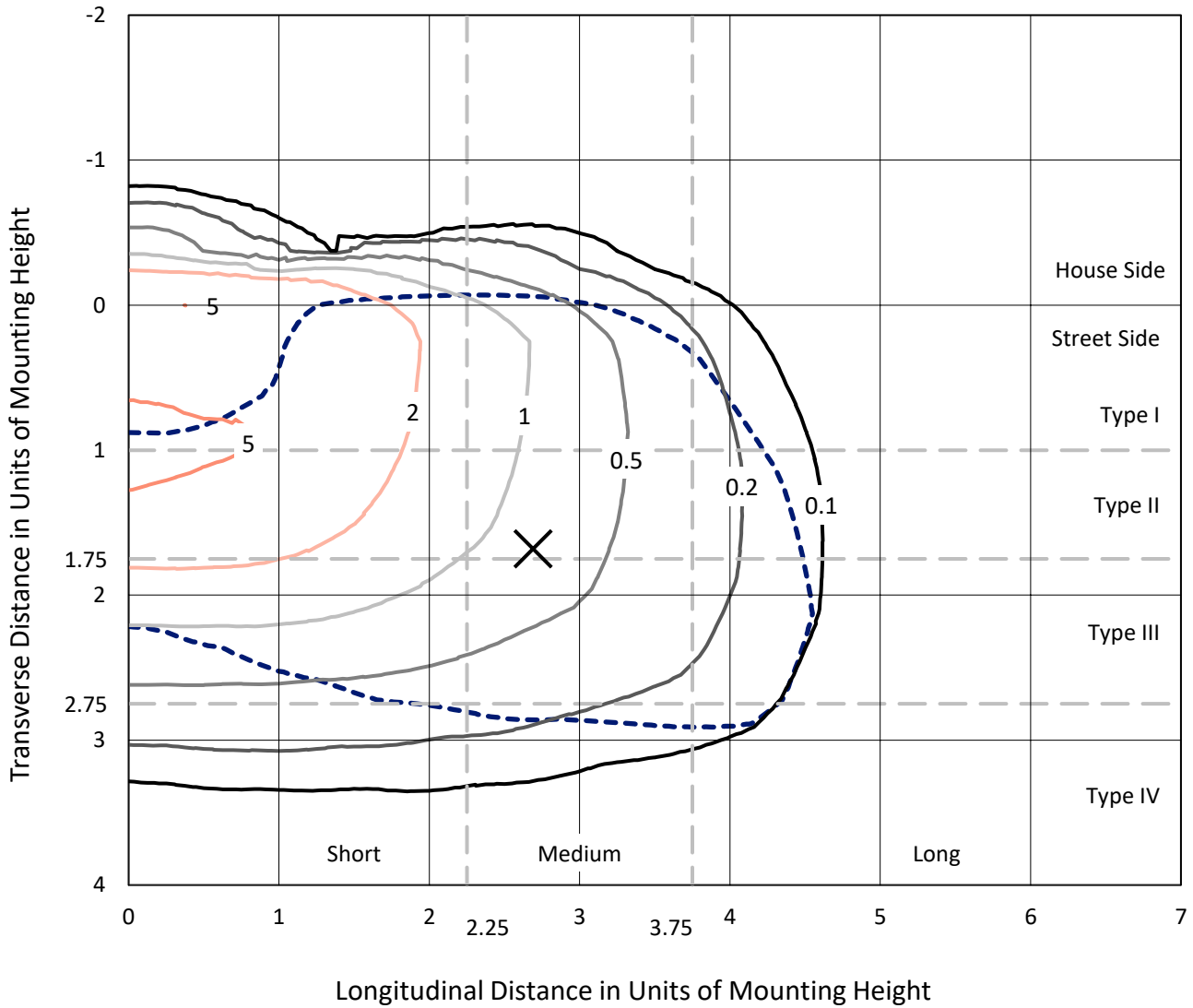
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

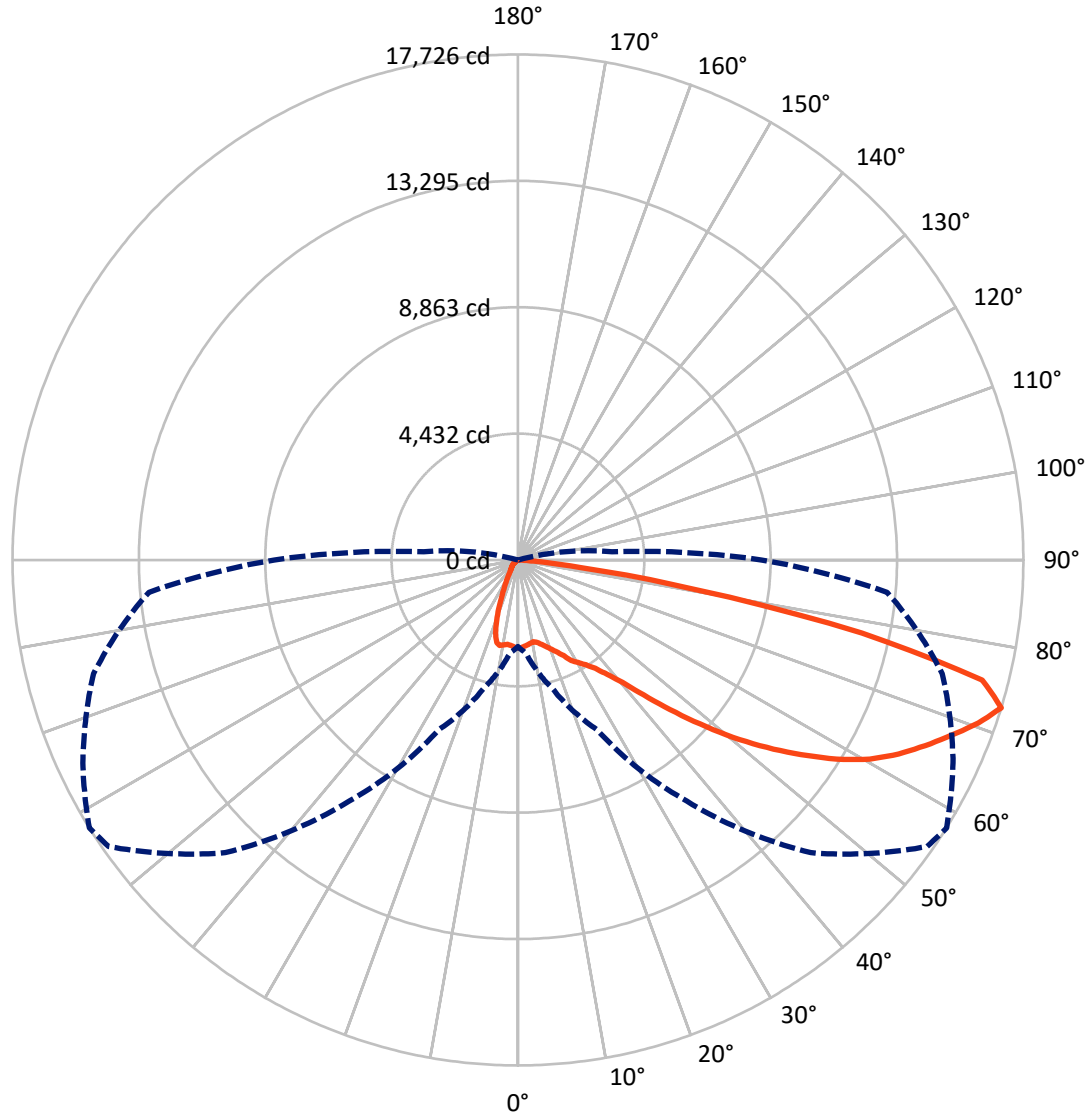
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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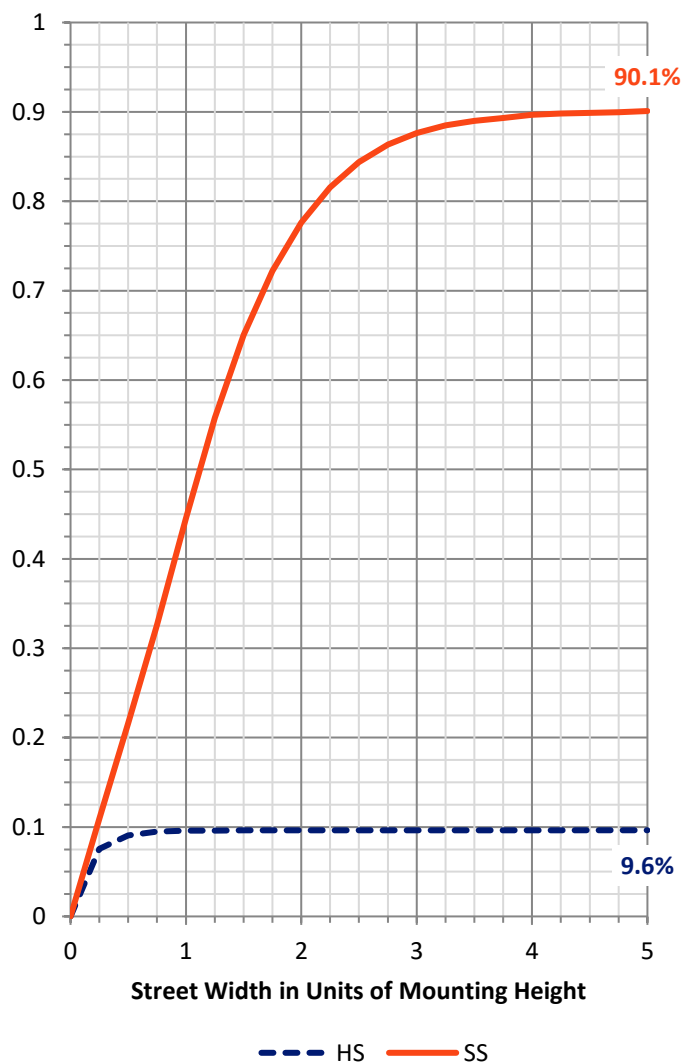
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.2	0.0	2506.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	23266.8	0.0	23266.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	25773.0	0.0	25773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	1.1
10°-20°	739.2	2.9
20°-30°	1161.3	4.5
30°-40°	2002.8	7.8
40°-50°	3810.4	14.8
50°-60°	6034.4	23.4
60°-70°	7041.5	27.3
70°-80°	4410.1	17.1
80°-90°	289.5	1.1
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°	25773.0	100.0
0°-180°	25773.0	100.0

Coefficient of Utilization



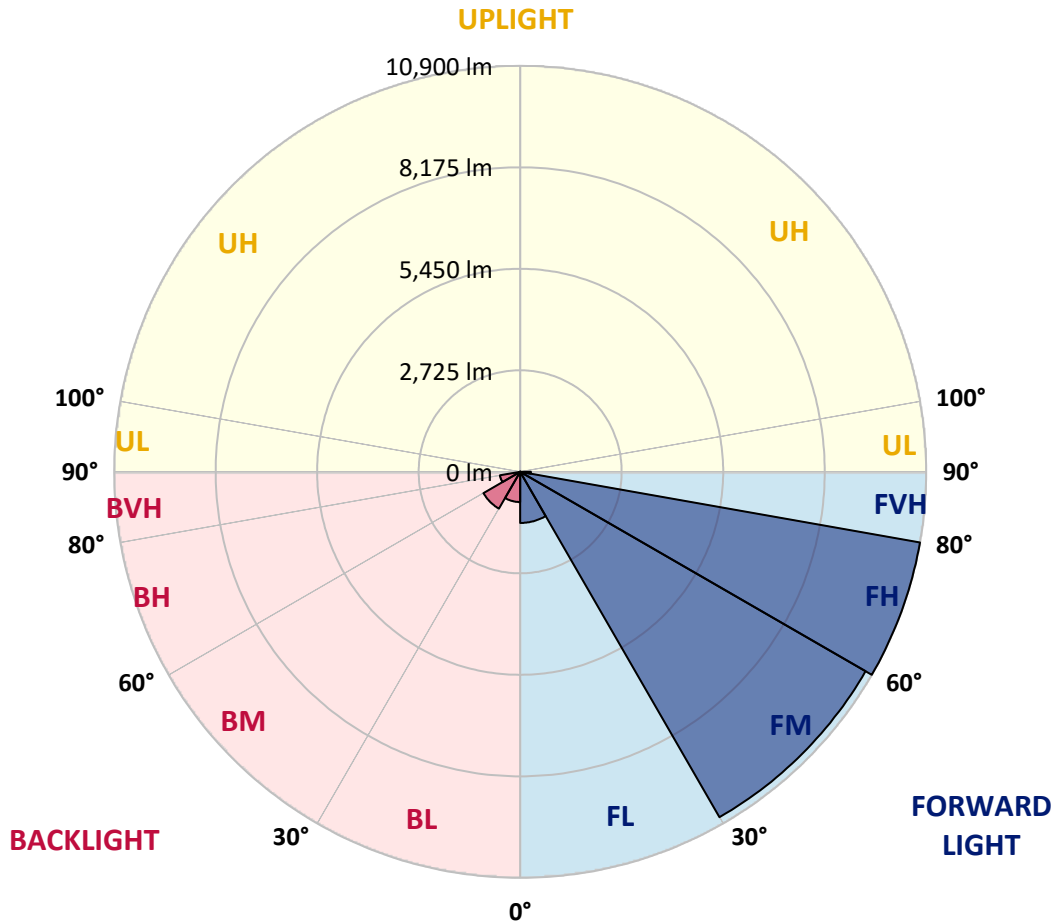
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1372.8	5.3			
FM (30°-60°)	10707.2	41.5			
FH (60°-80°)	10900.1	42.3			G4/12000
FVH (80°-90°)	286.7	1.1			G3/500
BL (0°-30°)	811.6	3.1	B2/1000		
BM (30°-60°)	1140.4	4.4	B2/2500		
BH (60°-80°)	551.5	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.8	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°	45°	55°	58°	65°	75°	85°
0°	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6
2.5°	3078.8	3064.9	3060.3	3055.7	3060.3	3064.9	3051.1	3064.9	3055.7	3060.3	3069.6
5°	2968.2	2954.3	2949.7	2954.3	2968.2	2991.2	3000.4	3014.3	3014.3	3028.1	3032.7
7.5°	2843.7	2834.5	2829.9	2839.1	2866.8	2917.5	2945.1	2963.6	2982.0	3009.6	3037.3
10°	2774.6	2770.0	2765.4	2779.2	2806.8	2852.9	2889.8	2917.5	2986.6	3064.9	3115.6
12.5°	2728.5	2728.5	2737.7	2765.4	2802.2	2839.1	2926.7	2963.6	3069.6	3189.4	3258.5
15°	2691.6	2691.6	2705.5	2756.1	2806.8	2894.4	3023.5	3064.9	3189.4	3336.9	3429.1
17.5°	2664.0	2673.2	2682.4	2733.1	2829.9	2977.4	3129.5	3189.4	3341.5	3502.8	3604.2
20°	2668.6	2677.8	2682.4	2733.1	2871.4	3074.2	3267.7	3336.9	3512.0	3682.5	3783.9
22.5°	2696.2	2710.1	2714.7	2783.8	2945.1	3175.6	3424.4	3502.8	3691.8	3871.5	3949.9
25°	2811.5	2820.7	2793.0	2852.9	3051.1	3332.3	3627.2	3710.2	3899.2	4065.1	4129.6
27.5°	3203.2	3212.4	3060.3	2991.2	3134.1	3461.3	3876.1	3991.3	4226.4	4337.0	4346.2
30°	4051.3	4060.5	3760.9	3433.7	3332.3	3571.9	4014.4	4175.7	4479.9	4604.3	4549.0
32.5°	5143.6	5134.4	4724.2	4240.2	3802.4	3765.5	4212.6	4383.1	4715.0	4834.8	4793.3
35°	6240.5	6254.3	5904.1	5175.8	4549.0	4129.6	4466.1	4664.3	5065.2	5235.8	5162.0
37.5°	6991.8	7084.0	6931.9	6143.7	5466.2	4802.5	4876.3	5088.3	5590.7	5821.1	5664.4
40°	8051.8	8028.8	7660.1	7079.3	6480.2	5798.1	5540.0	5641.4	6217.5	6526.3	6282.0
42.5°	9476.0	9429.9	8803.1	8236.2	7567.9	7010.2	6484.8	6466.4	6936.5	7296.0	6941.1
45°	10766.5	10697.4	10268.7	9720.3	8987.4	8346.8	7637.0	7475.7	7802.9	8107.1	7692.3
47.5°	11794.3	11679.1	11374.9	11084.5	10904.8	9909.2	8844.6	8600.3	8766.2	8992.1	8406.7
50°	13011.1	12693.0	12250.6	12075.4	12448.8	11679.1	10006.0	9771.0	9761.7	9890.8	9144.1
52.5°	13564.1	12988.0	12739.1	12886.6	13545.7	13324.5	11259.7	10923.2	10789.5	10803.4	9830.9
55°	12895.8	12831.3	12965.0	13425.9	14287.7	14158.7	12462.6	12047.8	11849.6	11600.7	10490.0
57.5°	12135.4	12333.5	12863.6	13743.9	15228.0	15029.8	13647.1	13177.0	12812.9	12241.4	11222.8
60°	11434.8	11637.6	12513.3	13817.6	15744.2	15868.6	14633.4	14186.3	13647.1	12895.8	12029.3
62.5°	10370.1	10526.8	11757.4	13711.6	15518.3	16357.2	15320.1	14983.7	14481.3	13518.0	12955.7
65°	9171.8	9273.2	10490.0	12863.6	15075.9	16301.8	15887.0	15698.1	15209.5	14167.9	13872.9
67.5°	7858.3	7978.1	8992.1	11338.0	14209.4	16043.7	16421.7	16403.2	15845.6	14886.9	14536.6
70°	6346.5	6355.7	7194.6	9402.3	12697.6	15527.5	17085.4	17126.8	16453.9	15426.1	14564.3
72.5°	3037.3	3286.2	4664.3	6563.1	10319.4	14513.6	17518.6	17726.0	16836.5	15407.7	12992.6
75°	696.0	719.0	1359.6	3120.3	6051.5	11139.8	16435.5	16822.7	15905.5	13324.5	9153.4
77.5°	253.5	267.3	382.5	912.6	2327.5	5756.6	11762.0	12328.9	11757.4	8614.1	4327.8
80°	170.5	165.9	198.2	405.6	1069.3	1631.6	6014.7	6351.1	5798.1	2940.5	1037.0
82.5°	87.6	92.2	138.3	225.8	719.0	566.9	2009.5	2184.6	1797.5	589.9	193.6
85°	41.5	41.5	78.4	142.9	304.2	198.2	447.1	539.2	483.9	258.1	64.5
87.5°	41.5	41.5	73.7	92.2	156.7	83.0	110.6	138.3	129.1	138.3	23.0
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°	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6	3092.6
2.5°	3069.6	3064.9	3060.3	3069.6	3064.9	3074.2	3074.2	3083.4	3083.4	3074.2	3069.6
5°	3028.1	3018.9	3009.6	3009.6	3005.0	3014.3	3041.9	3064.9	3069.6	3055.7	3051.1
7.5°	3032.7	3032.7	3023.5	3005.0	2972.8	2972.8	2972.8	3000.4	3014.3	3005.0	3000.4
10°	3115.6	3120.3	3097.2	3055.7	3000.4	2949.7	2852.9	2710.1	2576.4	2539.5	2525.7
12.5°	3258.5	3263.1	3217.0	3143.3	3028.1	2728.5	2359.8	2018.7	1756.0	1682.3	1668.4
15°	3429.1	3433.7	3350.7	3230.9	2880.6	2184.6	1636.2	1249.0	1018.6	963.3	958.7
17.5°	3604.2	3595.0	3470.5	3240.1	2442.7	1548.6	995.5	797.3	737.4	723.6	728.2
20°	3774.7	3747.1	3576.5	3069.6	1880.5	1014.0	728.2	682.1	668.3	659.1	659.1
22.5°	3931.4	3876.1	3664.1	2733.1	1318.2	728.2	649.9	640.6	622.2	608.4	603.8
25°	4088.1	4009.8	3719.4	2295.3	884.9	636.0	613.0	594.6	571.5	553.1	548.5
27.5°	4277.1	4166.5	3691.8	1742.2	663.7	589.9	571.5	543.9	511.6	483.9	474.7
30°	4456.9	4332.4	3535.1	1202.9	566.9	543.9	516.2	474.7	433.2	401.0	391.8
32.5°	4682.7	4539.8	3253.9	788.1	493.2	474.7	447.1	396.4	341.1	304.2	295.0
35°	5005.3	4844.0	2894.4	553.1	433.2	401.0	364.1	308.8	248.9	221.2	216.6
37.5°	5457.0	5240.4	2442.7	447.1	382.5	336.5	281.1	225.8	184.4	161.3	156.7
40°	6010.1	5678.2	1940.4	396.4	341.1	281.1	212.0	161.3	133.7	115.2	115.2
42.5°	6609.2	6088.4	1428.8	364.1	299.6	230.4	156.7	115.2	96.8	87.6	83.0
45°	7226.8	6452.5	963.3	336.5	262.7	175.1	110.6	78.4	64.5	64.5	59.9
47.5°	7867.5	6696.8	622.2	304.2	221.2	129.1	73.7	55.3	46.1	46.1	46.1
50°	8503.5	6825.8	442.5	276.5	179.7	87.6	55.3	41.5	36.9	36.9	36.9
52.5°	8964.4	6742.9	354.9	239.7	138.3	64.5	41.5	32.3	27.7	27.7	27.7
55°	9365.4	6600.0	308.8	207.4	101.4	46.1	32.3	27.7	23.0	23.0	23.0
57.5°	9775.6	6415.7	276.5	175.1	73.7	32.3	23.0	18.4	18.4	18.4	18.4
60°	10148.9	6102.2	239.7	138.3	50.7	23.0	18.4	13.8	13.8	13.8	13.8
62.5°	10513.0	5834.9	207.4	106.0	36.9	18.4	9.2	9.2	4.6	4.6	4.6
65°	10720.4	5475.4	165.9	69.1	23.0	13.8	4.6	4.6	0.0	0.0	0.0
67.5°	10655.9	5046.8	115.2	41.5	13.8	9.2	4.6	0.0	0.0	0.0	0.0
70°	10208.8	4470.7	69.1	23.0	13.8	9.2	4.6	0.0	0.0	0.0	0.0
72.5°	8549.6	3309.2	41.5	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0
75°	5710.5	1521.0	23.0	13.8	4.6	4.6	0.0	0.0	0.0	0.0	0.0
77.5°	2613.3	456.3	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	525.4	119.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	110.6	23.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	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)