

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: P400355

Luminaire Tested: **ARCH-L-PA3-270-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400355
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-PA3-270-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA 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: 22209 lumens
Efficiency: N/A
Efficacy: 81.4 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

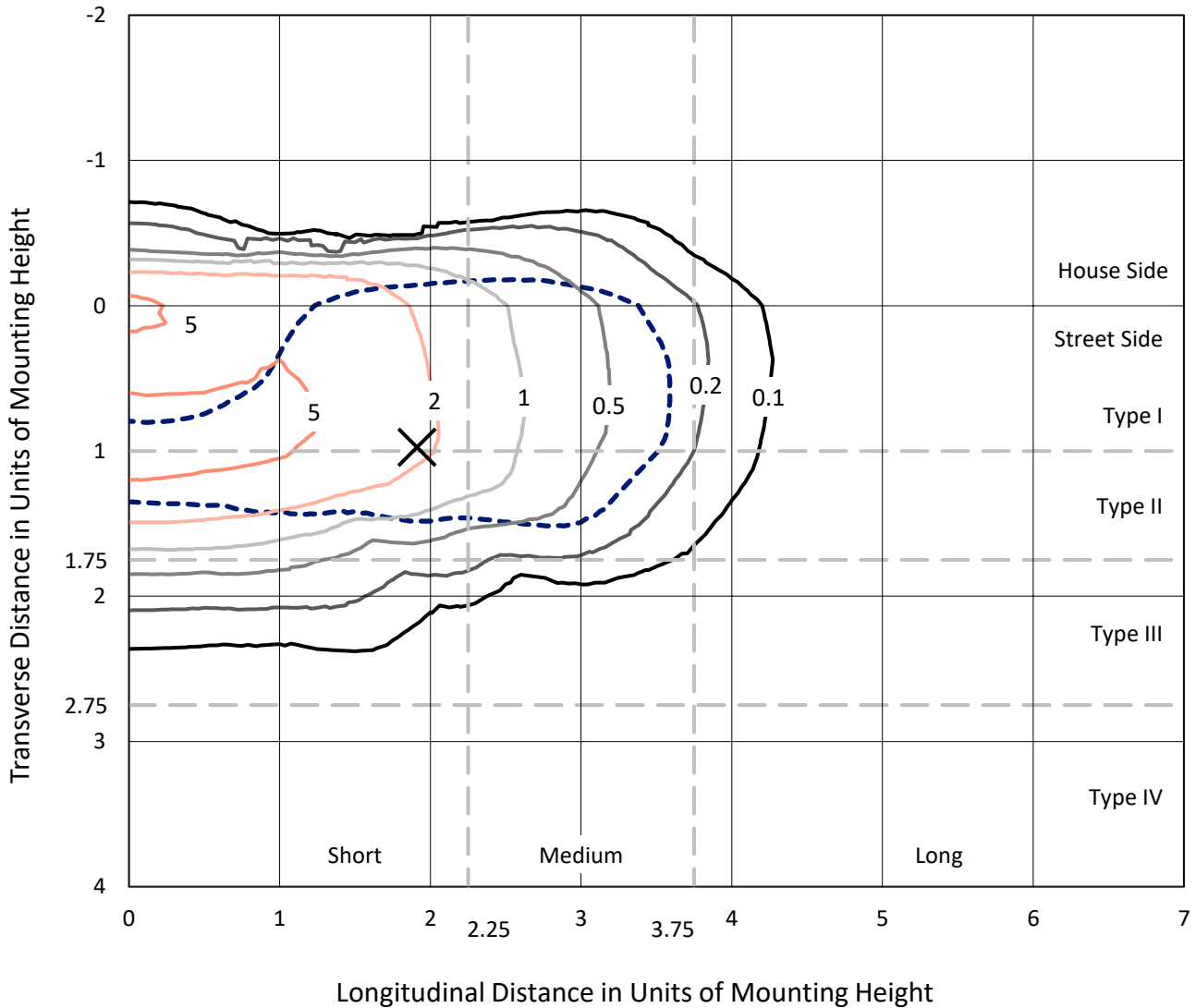
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

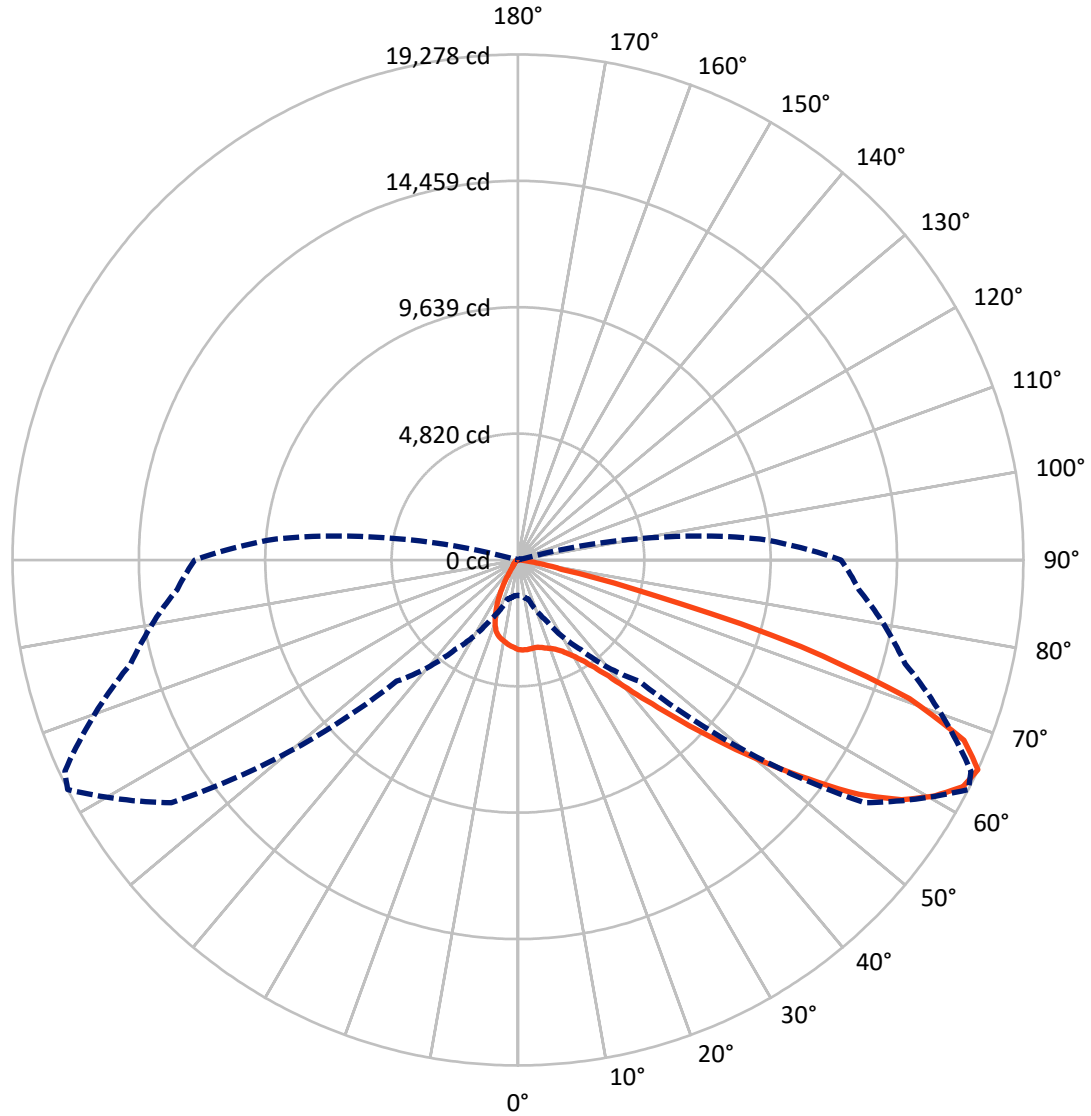
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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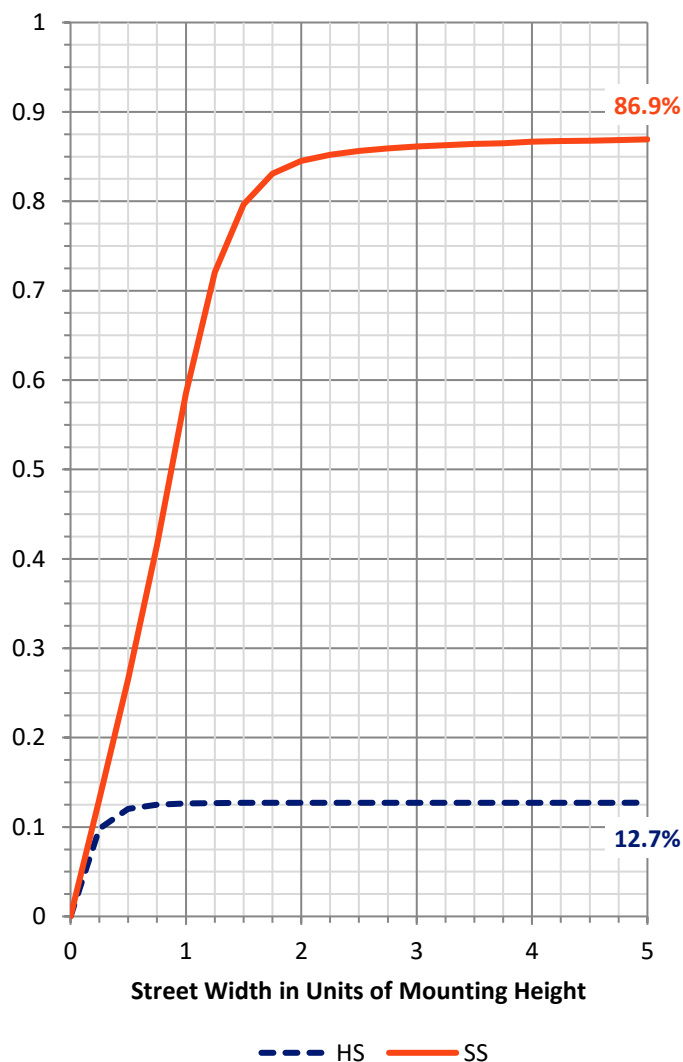
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.3	0.0	2858.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	19350.7	0.0	19350.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	22209.0	0.0	22209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.4
10°-20°	770.1	3.5
20°-30°	1141.5	5.1
30°-40°	2119.4	9.5
40°-50°	4489.9	20.2
50°-60°	6208.4	28.0
60°-70°	4970.0	22.4
70°-80°	2064.9	9.3
80°-90°	132.6	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°	22209.0	100.0
0°-180°	22209.0	100.0

Coefficient of Utilization



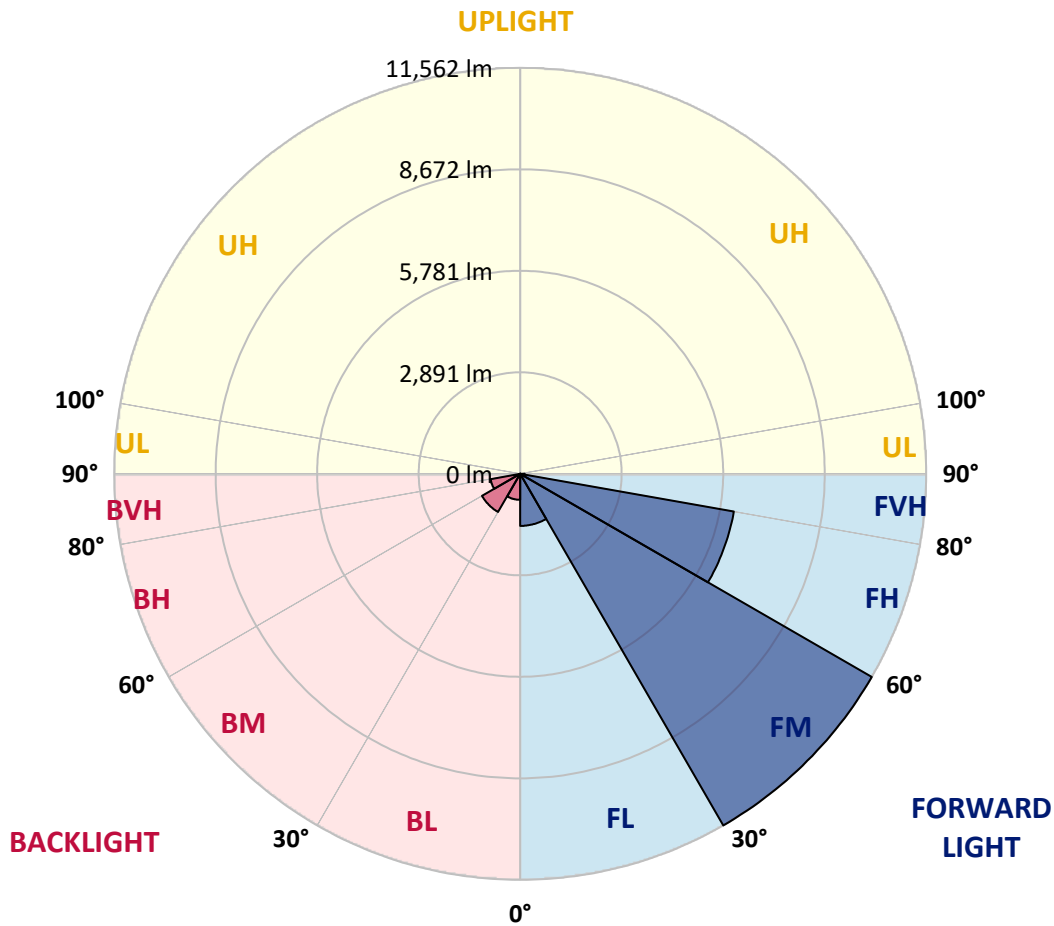
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.0	6.7			
FM (30°-60°)	11562.1	52.1			
FH (60°-80°)	6179.0	27.8			G3/7500
FVH (80°-90°)	126.5	0.6			G2/225
BL (0°-30°)	740.8	3.3	B2/1000		
BM (30°-60°)	1255.6	5.7	B2/2500		
BH (60°-80°)	855.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
2.5°	3480.0	3471.6	3463.2	3459.0	3459.0	3454.9	3438.1	3433.9	3425.5	3417.1	3408.7
5°	3446.5	3433.9	3429.7	3433.9	3438.1	3446.5	3438.1	3438.1	3429.7	3421.3	3404.5
7.5°	3362.6	3354.2	3358.4	3371.0	3375.2	3404.5	3408.7	3421.3	3421.3	3412.9	3400.3
10°	3262.0	3257.8	3257.8	3278.8	3299.7	3341.6	3371.0	3404.5	3408.7	3408.7	3387.8
12.5°	3186.5	3182.3	3194.9	3220.1	3262.0	3316.5	3366.8	3417.1	3425.5	3429.7	3396.2
15°	3140.4	3140.4	3157.2	3207.5	3266.2	3341.6	3400.3	3467.4	3475.8	3471.6	3425.5
17.5°	3098.5	3102.7	3136.2	3220.1	3287.1	3387.8	3459.0	3534.5	3538.7	3534.5	3459.0
20°	3081.7	3090.1	3140.4	3249.4	3324.9	3438.1	3530.3	3605.8	3610.0	3593.2	3492.6
22.5°	3127.8	3132.0	3194.9	3312.3	3383.6	3509.4	3626.8	3698.0	3702.2	3677.1	3542.9
25°	3287.1	3287.1	3341.6	3442.3	3505.2	3630.9	3756.7	3840.6	3840.6	3811.2	3656.1
27.5°	3660.3	3626.8	3614.2	3643.5	3664.5	3798.7	3932.8	4037.6	4033.5	3991.5	3802.9
30°	4381.5	4297.6	4163.4	4012.5	3937.0	4029.3	4155.0	4289.2	4285.0	4217.9	3983.1
32.5°	5593.2	5471.6	5152.9	4754.6	4431.8	4326.9	4444.3	4591.1	4595.3	4515.6	4272.4
35°	7291.2	7098.4	6528.2	5974.7	5236.8	4838.5	4872.0	5031.3	5081.6	5039.7	4758.8
37.5°	8926.4	8750.3	8205.3	7438.0	6435.9	5622.5	5480.0	5618.3	5677.0	5677.0	5379.3
40°	10574.2	10368.7	9886.6	9115.1	8058.5	6846.8	6335.3	6448.5	6511.4	6524.0	6134.0
42.5°	11894.9	11760.7	11391.8	10792.2	9802.7	8993.5	7568.0	7505.1	7563.8	7517.7	7010.3
45°	12808.9	12704.1	12448.4	12222.0	11739.8	11333.1	9215.7	8792.3	8830.0	8670.7	7995.6
47.5°	12997.6	12880.2	12825.7	13140.2	13484.0	13584.6	11240.8	10322.6	10284.9	9932.7	9018.7
50°	12175.8	12188.4	12389.7	13286.9	14720.9	15626.5	13588.8	12050.0	11911.7	11127.6	9970.4
52.5°	10402.3	10603.5	11110.9	12565.8	15098.2	17110.7	15936.8	13882.3	13668.5	12289.0	10683.2
55°	8138.2	8398.1	9232.5	10905.4	14310.0	17773.2	17915.7	15785.8	15299.5	13161.1	11236.7
57.5°	6050.2	6129.8	7102.6	8628.7	12444.2	17123.3	18930.4	17253.3	16628.6	13857.1	11785.9
60°	3769.3	3819.6	4846.9	6570.1	9425.4	14720.9	18930.4	18263.7	17668.4	14481.9	12289.0
62.5°	2343.8	2360.5	2746.3	4503.0	6406.6	10918.0	18146.4	19047.8	18569.8	14930.5	12720.9
65°	1350.1	1366.8	1547.1	2545.0	4167.6	6536.5	16142.2	19278.4	19064.6	15286.9	13056.3
67.5°	985.3	993.7	1065.0	1429.7	2725.3	3358.4	12125.5	18351.8	18620.1	15463.0	13047.9
70°	855.3	867.9	960.1	1115.3	1966.4	2062.8	6171.8	15848.7	16599.2	15211.4	12658.0
72.5°	658.3	675.0	813.4	1048.2	1442.3	1484.2	2234.8	11278.6	12414.8	13639.1	11588.8
75°	452.8	469.6	608.0	863.7	1190.7	1111.1	1228.5	5190.7	6549.1	9148.6	8821.6
77.5°	289.3	293.5	381.5	628.9	1027.2	788.2	842.7	1693.9	2377.3	4138.3	4163.4
80°	192.9	197.1	234.8	406.7	704.4	729.5	519.9	784.0	859.5	1207.5	838.6
82.5°	117.4	117.4	159.3	255.8	427.7	603.8	339.6	410.9	440.2	465.4	218.0
85°	46.1	46.1	96.4	167.7	268.3	280.9	213.8	239.0	251.6	272.5	100.6
87.5°	12.6	12.6	54.5	92.2	117.4	130.0	130.0	117.4	125.8	155.1	50.3
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°	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3	3421.3
2.5°	3404.5	3392.0	3375.2	3358.4	3341.6	3329.1	3316.5	3316.5	3308.1	3295.5	3287.1
5°	3396.2	3375.2	3337.5	3308.1	3262.0	3228.4	3203.3	3182.3	3169.7	3140.4	3136.2
7.5°	3383.6	3358.4	3303.9	3245.2	3169.7	3111.0	3052.3	3010.4	2968.5	2934.9	2926.6
10°	3362.6	3333.3	3253.6	3169.7	3064.9	2955.9	2817.5	2658.2	2511.5	2427.6	2402.5
12.5°	3362.6	3324.9	3220.1	3106.8	2955.9	2687.6	2335.4	1983.2	1710.7	1589.1	1555.5
15°	3383.6	3333.3	3194.9	3039.8	2758.8	2213.8	1643.6	1178.2	880.5	788.2	767.3
17.5°	3404.5	3333.3	3157.2	2947.5	2398.3	1605.8	935.0	620.5	524.1	503.1	503.1
20°	3412.9	3324.9	3106.8	2775.6	1916.1	997.9	557.6	465.4	427.7	415.1	415.1
22.5°	3446.5	3329.1	3069.1	2528.2	1392.0	587.0	440.2	389.9	352.2	339.6	339.6
25°	3530.3	3379.4	3077.5	2213.8	893.1	444.4	373.2	322.8	285.1	268.3	268.3
27.5°	3664.5	3492.6	3123.6	1849.0	561.8	381.5	314.5	260.0	230.6	213.8	213.8
30°	3815.4	3618.4	3144.6	1429.7	419.3	322.8	255.8	205.4	184.5	171.9	167.7
32.5°	4079.6	3836.4	3127.8	981.1	343.8	272.5	205.4	163.5	146.7	142.6	142.6
35°	4503.0	4217.9	3094.3	616.3	285.1	218.0	163.5	134.2	121.6	117.4	113.2
37.5°	5077.5	4775.6	2993.6	406.7	234.8	171.9	134.2	113.2	100.6	96.4	96.4
40°	5777.7	5412.9	2800.8	310.3	201.3	138.4	113.2	96.4	88.0	83.9	83.9
42.5°	6578.5	6121.5	2494.7	268.3	167.7	117.4	96.4	79.7	75.5	71.3	71.3
45°	7454.8	6863.6	2071.2	239.0	142.6	96.4	79.7	71.3	62.9	62.9	58.7
47.5°	8385.6	7609.9	1593.3	209.6	121.6	83.9	71.3	58.7	54.5	50.3	50.3
50°	9282.8	8276.5	1119.5	180.3	100.6	71.3	58.7	50.3	46.1	41.9	41.9
52.5°	9915.9	8679.1	792.4	155.1	83.9	62.9	46.1	37.7	33.5	33.5	33.5
55°	10423.3	8930.6	553.4	130.0	71.3	54.5	37.7	29.3	29.3	25.2	25.2
57.5°	10901.2	9094.1	406.7	109.0	58.7	41.9	29.3	21.0	21.0	16.8	16.8
60°	11396.0	9182.2	310.3	88.0	50.3	33.5	21.0	16.8	12.6	12.6	12.6
62.5°	11894.9	9236.7	239.0	71.3	41.9	25.2	16.8	12.6	8.4	4.2	4.2
65°	12331.0	9253.5	184.5	54.5	33.5	16.8	12.6	4.2	0.0	0.0	0.0
67.5°	12460.9	9060.6	142.6	41.9	25.2	12.6	8.4	0.0	0.0	0.0	0.0
70°	12108.7	8549.1	109.0	33.5	21.0	8.4	4.2	0.0	0.0	0.0	0.0
72.5°	10746.1	7169.7	83.9	21.0	16.8	8.4	4.2	0.0	0.0	0.0	0.0
75°	7689.6	3823.8	58.7	16.8	12.6	4.2	0.0	0.0	0.0	0.0	0.0
77.5°	3538.7	1480.1	41.9	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
80°	691.8	369.0	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	159.3	62.9	8.4	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.5	21.0	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	8.4	4.2	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)