

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: P400339

Luminaire Tested: **ARCH-L-PA3-270-722-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400339
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-PA3-270-722-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 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: 18946 lumens
Efficiency: N/A
Efficacy: 69.4 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

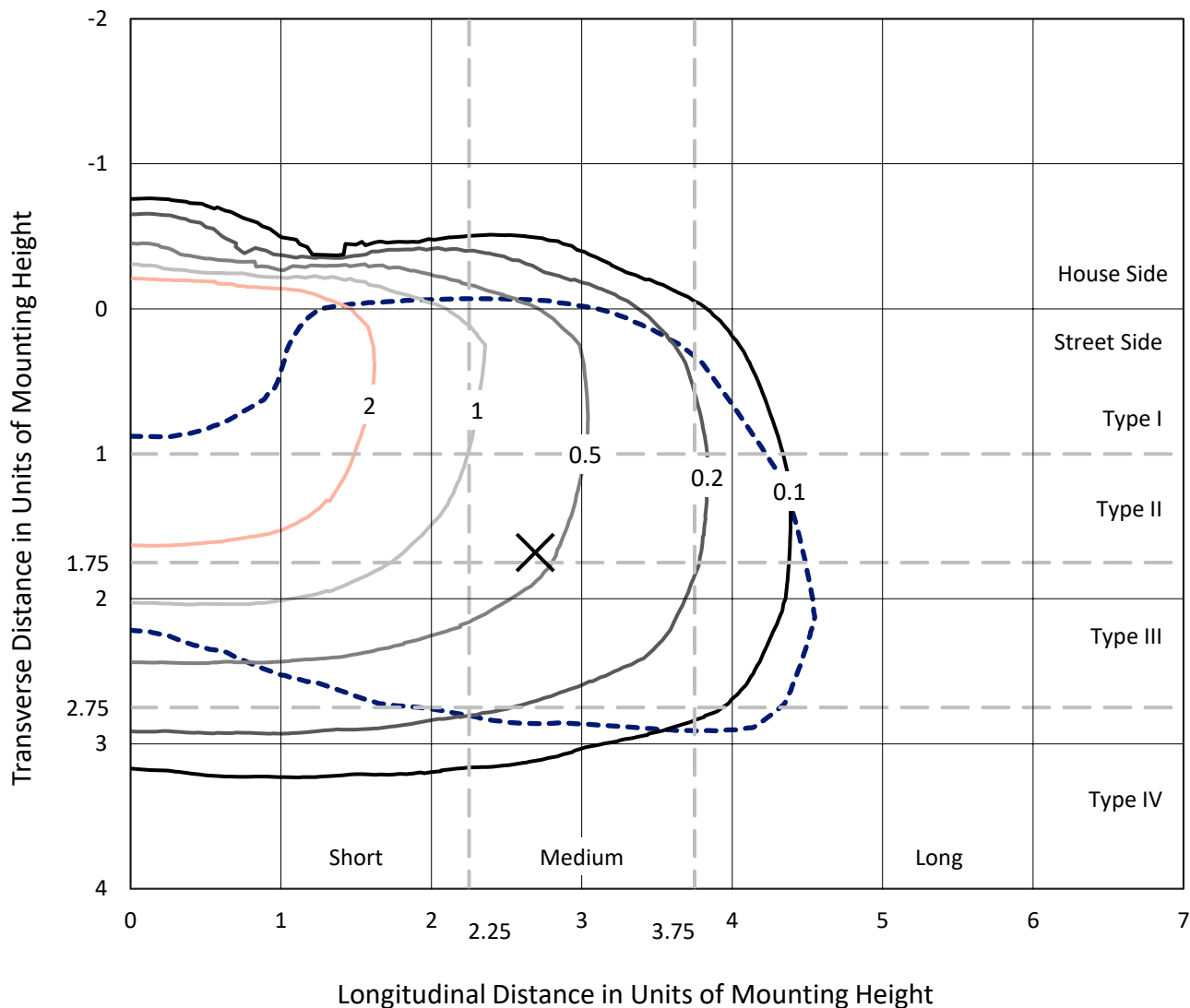
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

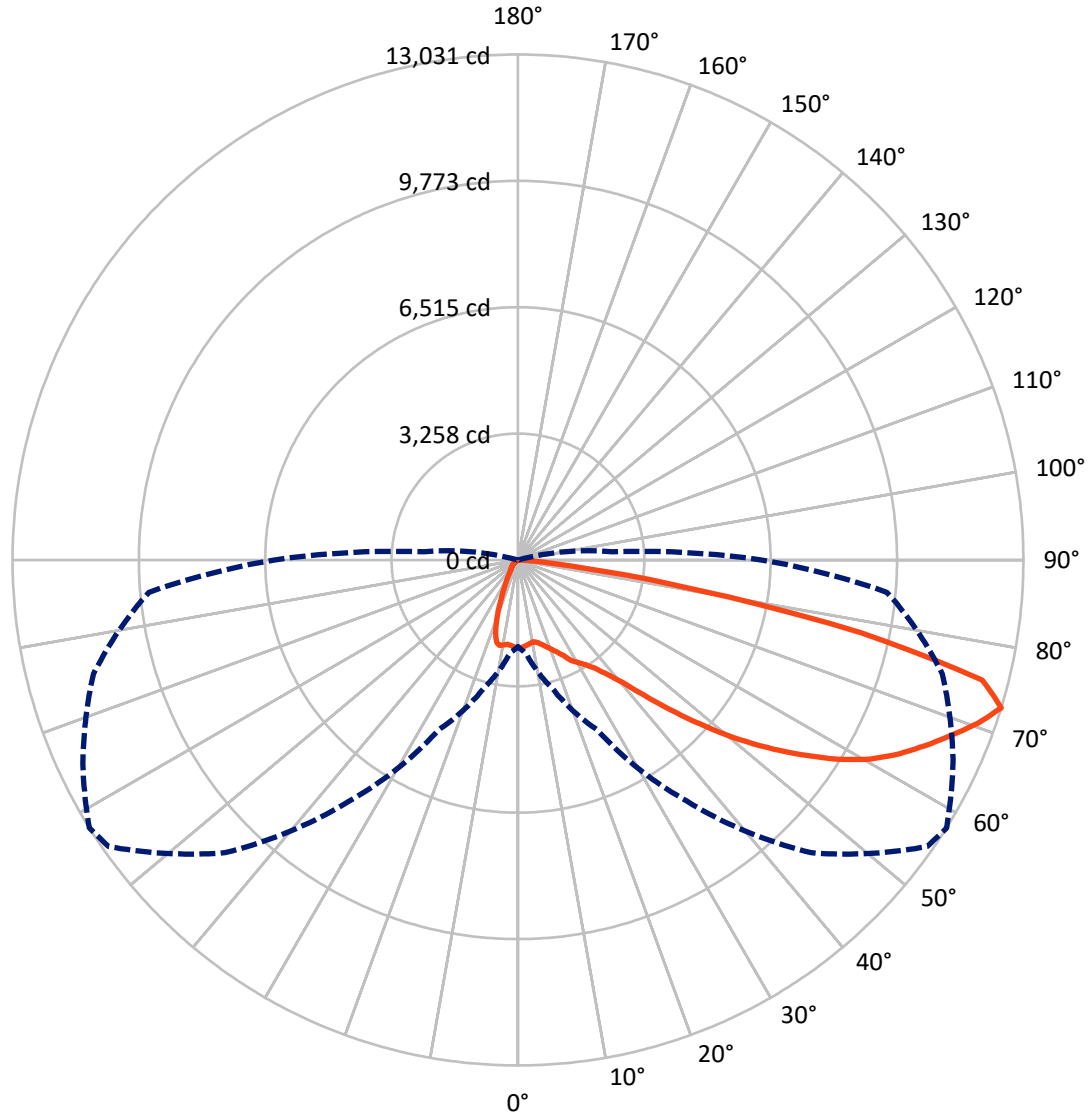
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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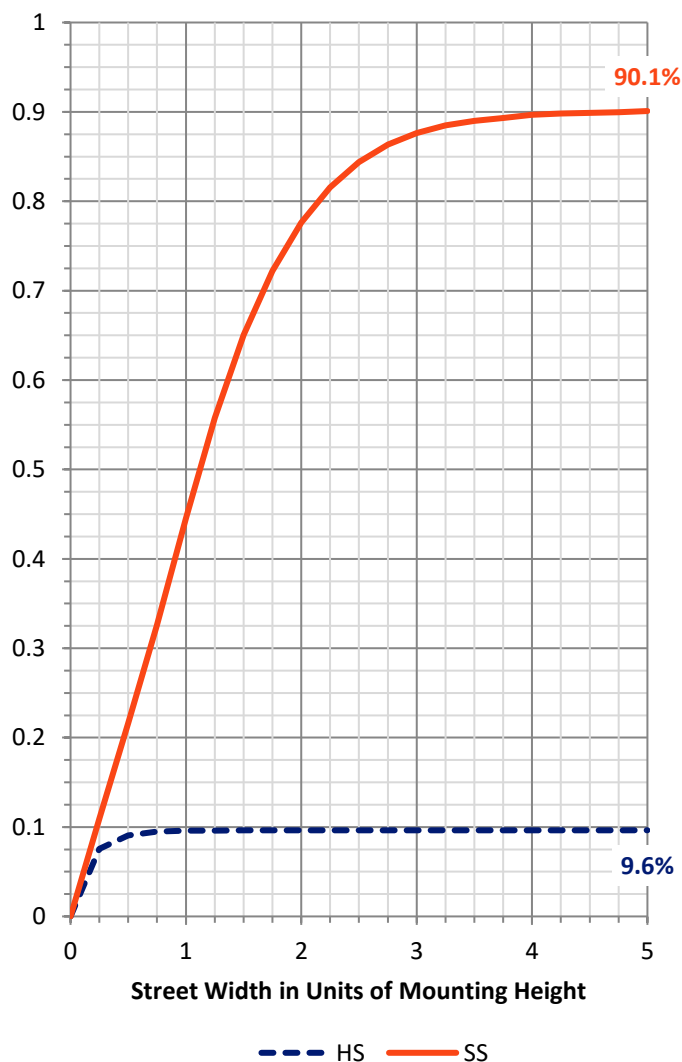
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1842.4	0.0	1842.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17103.6	0.0	17103.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	18946.0	0.0	18946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.1
10°-20°	543.4	2.9
20°-30°	853.7	4.5
30°-40°	1472.2	7.8
40°-50°	2801.0	14.8
50°-60°	4436.0	23.4
60°-70°	5176.3	27.3
70°-80°	3241.9	17.1
80°-90°	212.8	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°	18946.0	100.0
0°-180°	18946.0	100.0

Coefficient of Utilization

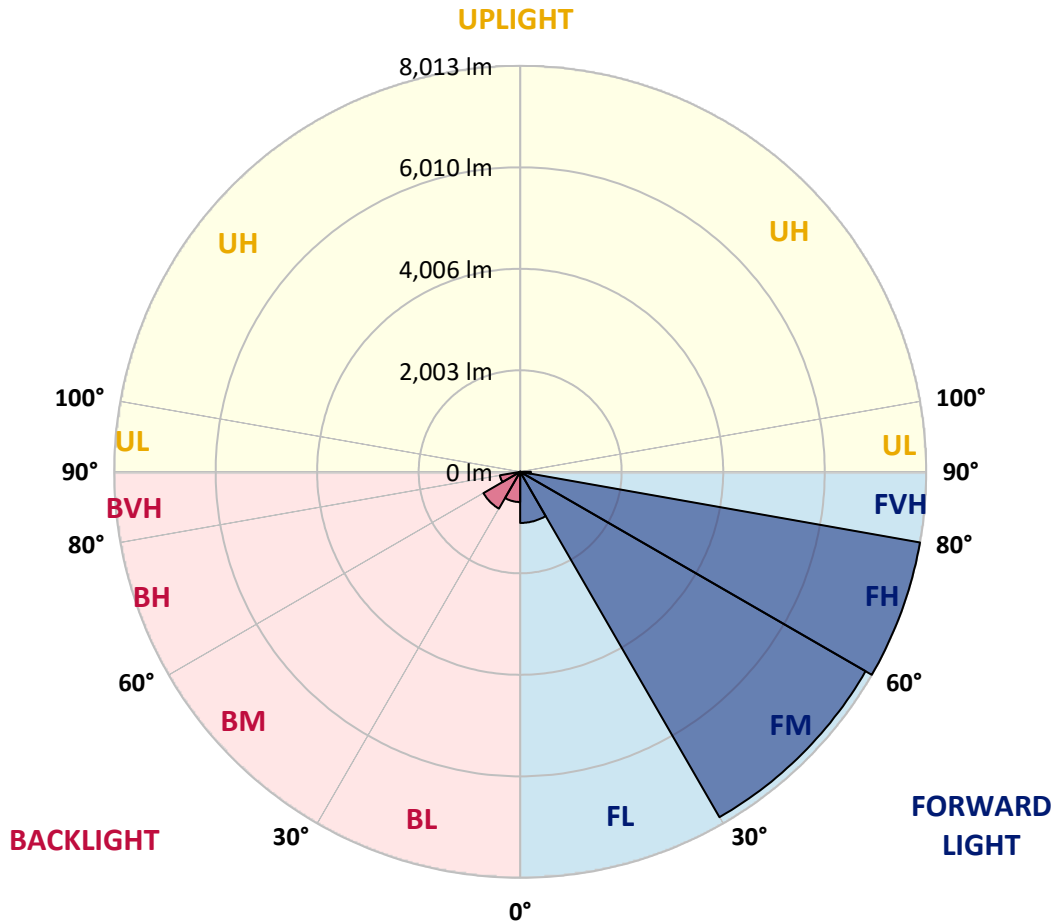


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.1	5.3			
FM (30°-60°)	7871.0	41.5			
FH (60°-80°)	8012.8	42.3			G4/12000
FVH (80°-90°)	210.7	1.1			G2/225
BL (0°-30°)	596.6	3.1	B2/1000		
BM (30°-60°)	838.3	4.4	B1/1000		
BH (60°-80°)	405.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2263.2	2253.1	2249.7	2246.3	2249.7	2253.1	2242.9	2253.1	2246.3	2249.7	2256.5
5°	2181.9	2171.8	2168.4	2171.8	2181.9	2198.9	2205.6	2215.8	2215.8	2226.0	2229.4
7.5°	2090.4	2083.7	2080.3	2087.1	2107.4	2144.7	2165.0	2178.5	2192.1	2212.4	2232.7
10°	2039.6	2036.2	2032.9	2043.0	2063.3	2097.2	2124.3	2144.7	2195.5	2253.1	2290.3
12.5°	2005.7	2005.7	2012.5	2032.9	2060.0	2087.1	2151.4	2178.5	2256.5	2344.6	2395.4
15°	1978.6	1978.6	1988.8	2026.1	2063.3	2127.7	2222.6	2253.1	2344.6	2453.0	2520.7
17.5°	1958.3	1965.1	1971.9	2009.1	2080.3	2188.7	2300.5	2344.6	2456.4	2574.9	2649.5
20°	1961.7	1968.5	1971.9	2009.1	2110.8	2259.9	2402.2	2453.0	2581.7	2707.1	2781.6
22.5°	1982.0	1992.2	1995.6	2046.4	2165.0	2334.4	2517.3	2574.9	2713.9	2846.0	2903.6
25°	2066.7	2073.5	2053.2	2097.2	2242.9	2449.6	2666.4	2727.4	2866.3	2988.3	3035.7
27.5°	2354.7	2361.5	2249.7	2198.9	2303.9	2544.5	2849.4	2934.1	3106.9	3188.2	3195.0
30°	2978.1	2984.9	2764.7	2524.1	2449.6	2625.8	2951.0	3069.6	3293.2	3384.7	3344.0
32.5°	3781.1	3774.3	3472.8	3117.0	2795.2	2768.1	3096.7	3222.1	3466.0	3554.1	3523.6
35°	4587.5	4597.6	4340.1	3804.8	3344.0	3035.7	3283.1	3428.7	3723.5	3848.9	3794.7
37.5°	5139.7	5207.5	5095.7	4516.3	4018.3	3530.4	3584.6	3740.4	4109.7	4279.2	4164.0
40°	5919.0	5902.0	5631.0	5204.1	4763.6	4262.2	4072.5	4147.0	4570.5	4797.5	4618.0
42.5°	6965.9	6932.0	6471.2	6054.5	5563.2	5153.3	4767.0	4753.5	5099.1	5363.3	5102.5
45°	7914.6	7863.7	7548.7	7145.5	6606.8	6135.8	5614.1	5495.5	5736.0	5959.6	5654.7
47.5°	8670.1	8585.4	8361.8	8148.3	8016.2	7284.4	6501.7	6322.2	6444.1	6610.2	6179.9
50°	9564.6	9330.8	9005.5	8876.8	9151.2	8585.4	7355.5	7182.7	7176.0	7270.8	6722.0
52.5°	9971.1	9547.6	9364.7	9473.1	9957.6	9795.0	8277.1	8029.8	7931.5	7941.7	7226.8
55°	9479.9	9432.4	9530.7	9869.5	10503.1	10408.2	9161.4	8856.5	8710.8	8527.8	7711.3
57.5°	8920.8	9066.5	9456.1	10103.3	11194.2	11048.5	10032.1	9686.5	9418.9	8998.8	8250.0
60°	8405.8	8554.9	9198.6	10157.5	11573.7	11665.2	10757.2	10428.5	10032.1	9479.9	8842.9
62.5°	7623.2	7738.4	8643.0	10079.6	11407.7	12024.3	11262.0	11014.7	10645.4	9937.3	9523.9
65°	6742.3	6816.8	7711.3	9456.1	11082.4	11983.7	11678.7	11539.8	11180.7	10415.0	10198.1
67.5°	5776.7	5864.8	6610.2	8334.7	10445.5	11793.9	12071.7	12058.2	11648.2	10943.5	10686.0
70°	4665.4	4672.2	5288.8	6911.7	9334.2	11414.5	12559.6	12590.1	12095.5	11339.9	10706.3
72.5°	2232.7	2415.7	3428.7	4824.6	7585.9	10669.1	12878.1	13030.6	12376.7	11326.4	9551.0
75°	511.6	528.5	999.5	2293.7	4448.6	8189.0	12081.9	12366.5	11692.3	9795.0	6728.7
77.5°	186.3	196.5	281.2	670.8	1711.0	4231.7	8646.4	9063.1	8643.0	6332.3	3181.4
80°	125.4	122.0	145.7	298.2	786.0	1199.4	4421.4	4668.8	4262.2	2161.6	762.3
82.5°	64.4	67.8	101.6	166.0	528.5	416.7	1477.2	1606.0	1321.4	433.7	142.3
85°	30.5	30.5	57.6	105.0	223.6	145.7	328.6	396.4	355.7	189.7	47.4
87.5°	30.5	30.5	54.2	67.8	115.2	61.0	81.3	101.6	94.9	101.6	16.9
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°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2256.5	2253.1	2249.7	2256.5	2253.1	2259.9	2259.9	2266.6	2266.6	2259.9	2256.5
5°	2226.0	2219.2	2212.4	2212.4	2209.0	2215.8	2236.1	2253.1	2256.5	2246.3	2242.9
7.5°	2229.4	2229.4	2222.6	2209.0	2185.3	2185.3	2185.3	2205.6	2215.8	2209.0	2205.6
10°	2290.3	2293.7	2276.8	2246.3	2205.6	2168.4	2097.2	1992.2	1893.9	1866.8	1856.7
12.5°	2395.4	2398.8	2364.9	2310.7	2226.0	2005.7	1734.7	1484.0	1290.9	1236.7	1226.5
15°	2520.7	2524.1	2463.1	2375.0	2117.6	1606.0	1202.8	918.2	748.8	708.1	704.7
17.5°	2649.5	2642.7	2551.2	2381.8	1795.7	1138.4	731.8	586.1	542.1	531.9	535.3
20°	2774.8	2754.5	2629.2	2256.5	1382.3	745.4	535.3	501.4	491.3	484.5	484.5
22.5°	2890.0	2849.4	2693.5	2009.1	969.0	535.3	477.7	470.9	457.4	447.2	443.8
25°	3005.2	2947.6	2734.2	1687.3	650.5	467.6	450.6	437.1	420.1	406.6	403.2
27.5°	3144.1	3062.8	2713.9	1280.7	487.9	433.7	420.1	399.8	376.1	355.7	349.0
30°	3276.3	3184.8	2598.7	884.3	416.7	399.8	379.5	349.0	318.5	294.8	288.0
32.5°	3442.3	3337.3	2392.0	579.4	362.5	349.0	328.6	291.4	250.7	223.6	216.8
35°	3679.5	3560.9	2127.7	406.6	318.5	294.8	267.7	227.0	183.0	162.6	159.2
37.5°	4011.5	3852.3	1795.7	328.6	281.2	247.3	206.7	166.0	135.5	118.6	115.2
40°	4418.1	4174.1	1426.4	291.4	250.7	206.7	155.9	118.6	98.3	84.7	84.7
42.5°	4858.5	4475.7	1050.3	267.7	220.2	169.4	115.2	84.7	71.1	64.4	61.0
45°	5312.5	4743.3	708.1	247.3	193.1	128.7	81.3	57.6	47.4	47.4	44.0
47.5°	5783.5	4922.9	457.4	223.6	162.6	94.9	54.2	40.7	33.9	33.9	33.9
50°	6251.0	5017.8	325.3	203.3	132.1	64.4	40.7	30.5	27.1	27.1	27.1
52.5°	6589.8	4956.8	260.9	176.2	101.6	47.4	30.5	23.7	20.3	20.3	20.3
55°	6884.6	4851.7	227.0	152.5	74.5	33.9	23.7	20.3	16.9	16.9	16.9
57.5°	7186.1	4716.2	203.3	128.7	54.2	23.7	16.9	13.6	13.6	13.6	13.6
60°	7460.6	4485.8	176.2	101.6	37.3	16.9	13.6	10.2	10.2	10.2	10.2
62.5°	7728.2	4289.3	152.5	77.9	27.1	13.6	6.8	6.8	3.4	3.4	3.4
65°	7880.7	4025.0	122.0	50.8	16.9	10.2	3.4	3.4	0.0	0.0	0.0
67.5°	7833.3	3710.0	84.7	30.5	10.2	6.8	3.4	0.0	0.0	0.0	0.0
70°	7504.6	3286.4	50.8	16.9	10.2	6.8	3.4	0.0	0.0	0.0	0.0
72.5°	6284.9	2432.6	30.5	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
75°	4197.8	1118.1	16.9	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1921.0	335.4	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	386.2	88.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	81.3	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	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)