

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: P399997

Luminaire Tested: **ARCH-L-PA3-220-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399997
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-PA3-220-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA 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: 20584 lumens
Efficiency: N/A
Efficacy: 92.7 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

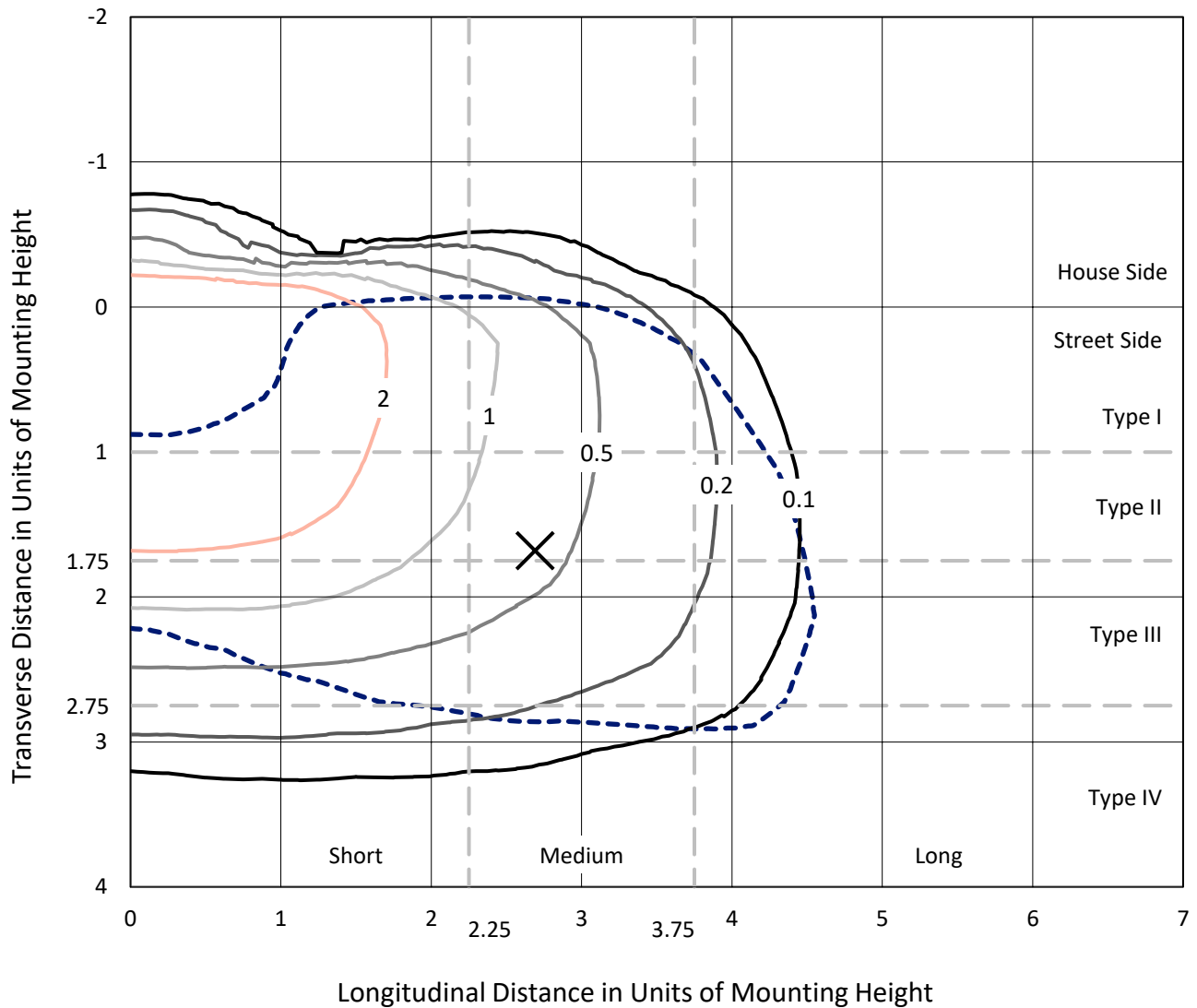
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

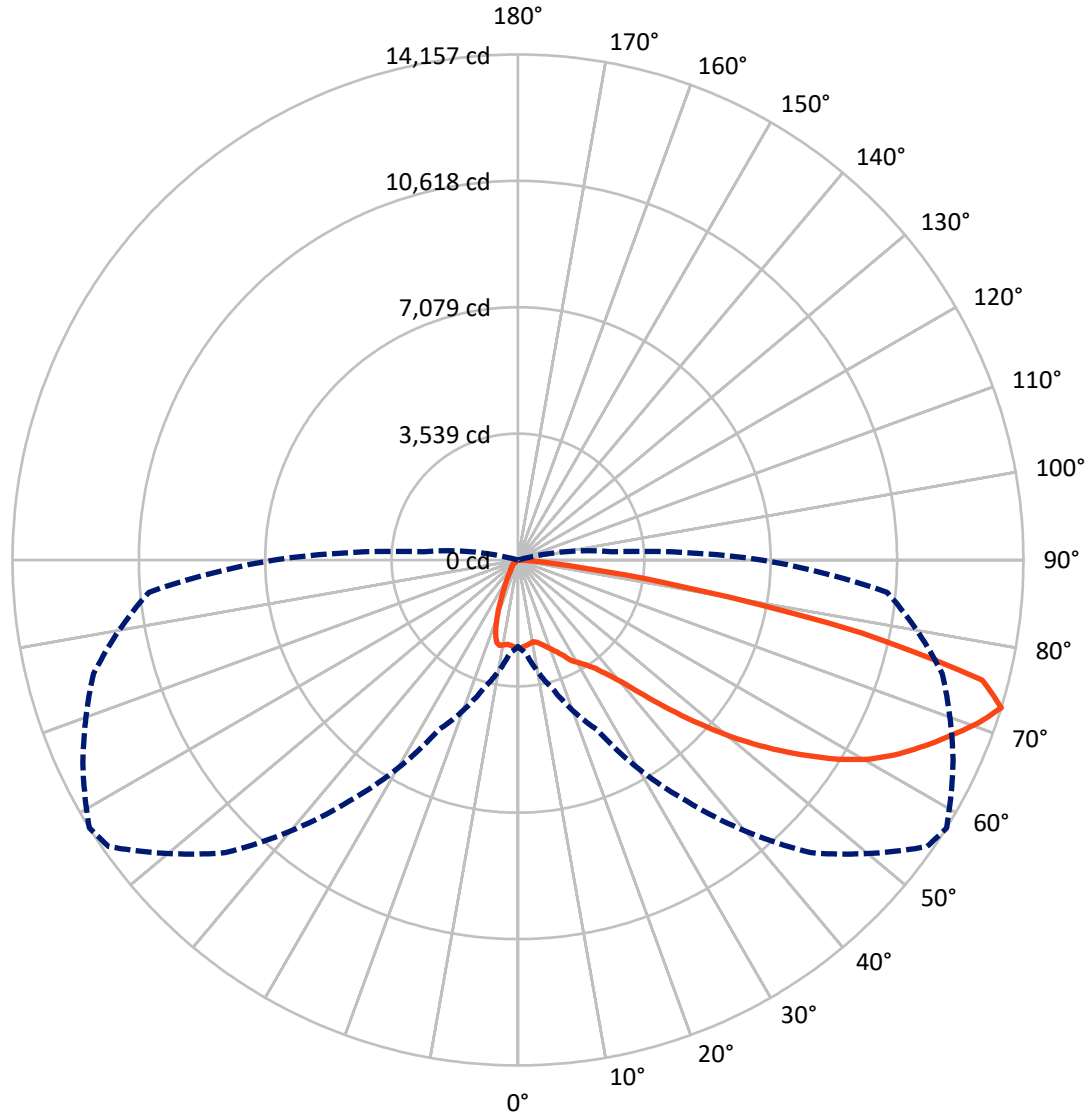
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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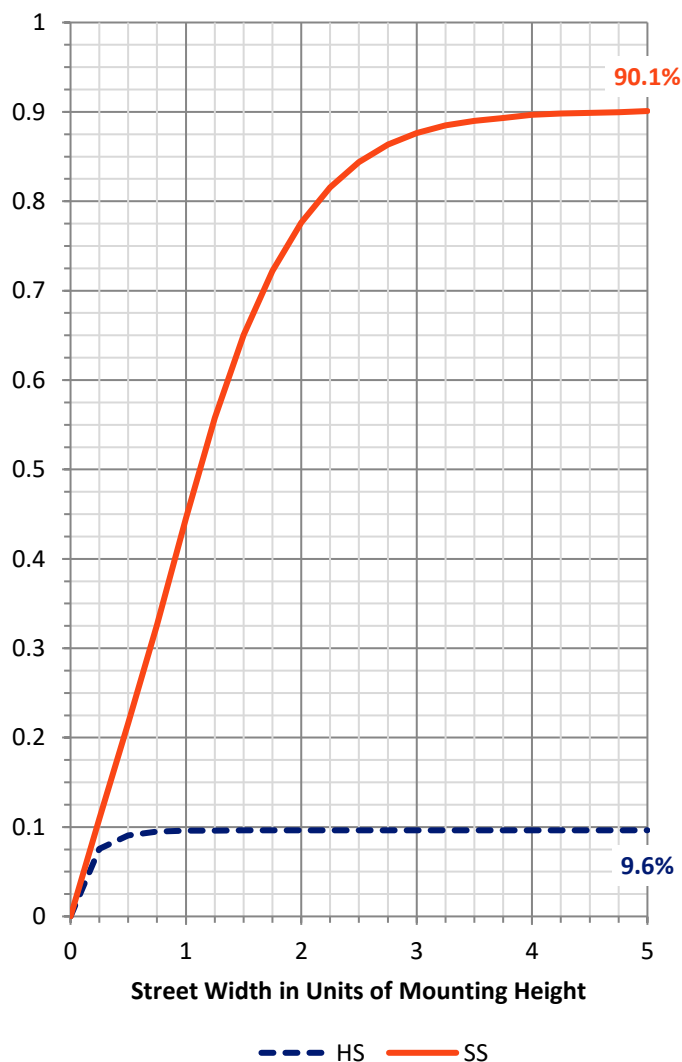
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.6	0.0	2001.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18582.4	0.0	18582.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	20584.0	0.0	20584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	1.1
10°-20°	590.4	2.9
20°-30°	927.5	4.5
30°-40°	1599.5	7.8
40°-50°	3043.2	14.8
50°-60°	4819.5	23.4
60°-70°	5623.8	27.3
70°-80°	3522.2	17.1
80°-90°	231.2	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°	20584.0	100.0
0°-180°	20584.0	100.0

Coefficient of Utilization



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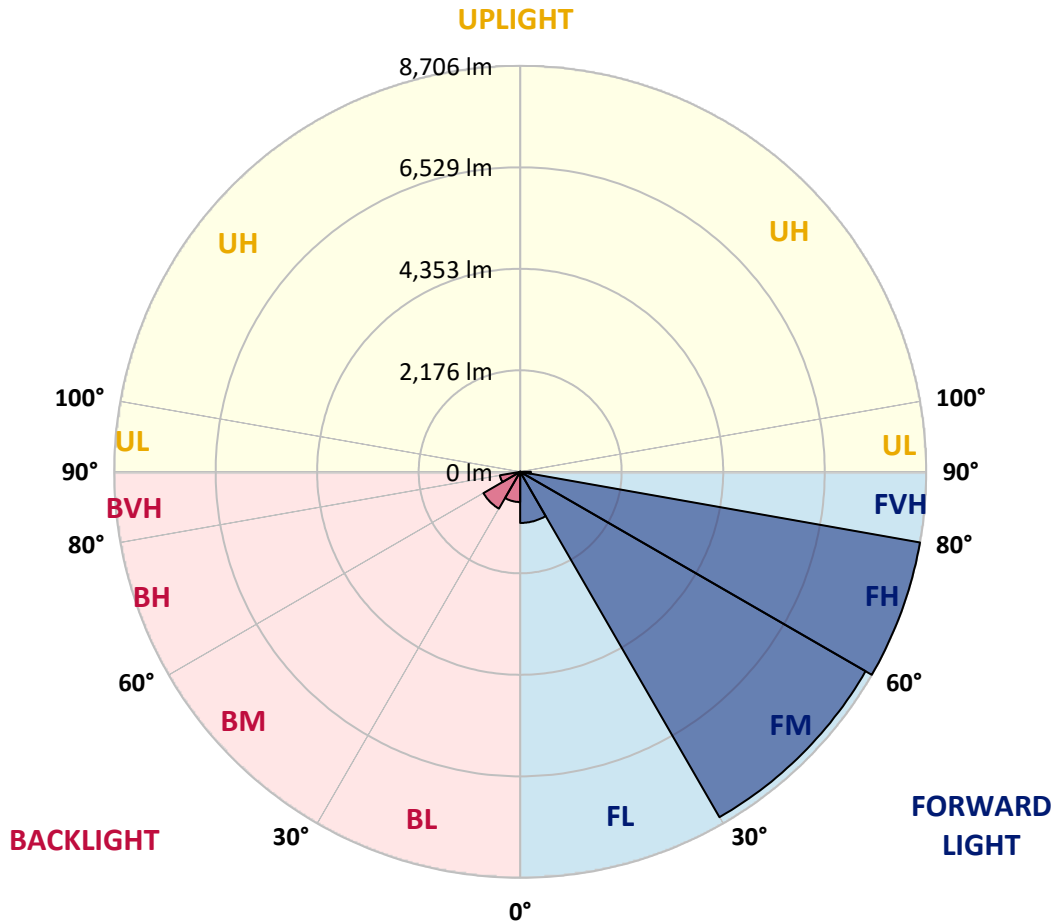
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.4	5.3			
FM (30°-60°)	8551.5	41.5			
FH (60°-80°)	8705.6	42.3			G4/12000
FVH (80°-90°)	229.0	1.1			G3/500
BL (0°-30°)	648.2	3.1	B2/1000		
BM (30°-60°)	910.8	4.4	B1/1000		
BH (60°-80°)	440.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2458.9	2447.9	2444.2	2440.5	2444.2	2447.9	2436.8	2447.9	2440.5	2444.2	2451.5
5°	2370.6	2359.5	2355.8	2359.5	2370.6	2389.0	2396.3	2407.4	2407.4	2418.4	2422.1
7.5°	2271.2	2263.8	2260.1	2267.5	2289.6	2330.1	2352.2	2366.9	2381.6	2403.7	2425.8
10°	2216.0	2212.3	2208.6	2219.6	2241.7	2278.5	2308.0	2330.1	2385.3	2447.9	2488.4
12.5°	2179.2	2179.2	2186.5	2208.6	2238.1	2267.5	2337.4	2366.9	2451.5	2547.3	2602.5
15°	2149.7	2149.7	2160.8	2201.2	2241.7	2311.7	2414.7	2447.9	2547.3	2665.0	2738.7
17.5°	2127.6	2135.0	2142.3	2182.8	2260.1	2377.9	2499.4	2547.3	2668.7	2797.6	2878.5
20°	2131.3	2138.7	2142.3	2182.8	2293.3	2455.2	2609.8	2665.0	2804.9	2941.1	3022.1
22.5°	2153.4	2164.4	2168.1	2223.3	2352.2	2536.2	2735.0	2797.6	2948.5	3092.0	3154.6
25°	2245.4	2252.8	2230.7	2278.5	2436.8	2661.4	2897.0	2963.2	3114.1	3246.6	3298.2
27.5°	2558.3	2565.7	2444.2	2389.0	2503.1	2764.4	3095.7	3187.8	3375.5	3463.8	3471.2
30°	3235.6	3243.0	3003.7	2742.3	2661.4	2852.8	3206.2	3335.0	3577.9	3677.3	3633.2
32.5°	4108.0	4100.6	3773.0	3386.5	3036.8	3007.4	3364.4	3500.6	3765.7	3861.4	3828.2
35°	4984.1	4995.1	4715.4	4133.8	3633.2	3298.2	3566.9	3725.2	4045.4	4181.6	4122.7
37.5°	5584.1	5657.7	5536.2	4906.8	4365.7	3835.6	3894.5	4063.8	4465.1	4649.1	4524.0
40°	6430.7	6412.3	6117.8	5654.0	5175.5	4630.7	4424.6	4505.6	4965.7	5212.3	5017.2
42.5°	7568.1	7531.3	7030.7	6578.0	6044.2	5598.8	5179.2	5164.5	5539.9	5827.0	5543.6
45°	8598.8	8543.6	8201.3	7763.2	7178.0	6666.3	6099.4	5970.6	6231.9	6474.9	6143.6
47.5°	9419.7	9327.7	9084.7	8852.8	8709.3	7914.2	7063.8	6868.8	7001.3	7181.6	6714.2
50°	10391.5	10137.5	9784.1	9644.2	9942.4	9327.7	7991.5	7803.7	7796.4	7899.4	7303.1
52.5°	10833.2	10373.1	10174.3	10292.1	10818.5	10641.8	8992.7	8724.0	8617.2	8628.3	7851.6
55°	10299.5	10247.9	10354.7	10722.8	11411.1	11308.0	9953.4	9622.1	9463.9	9265.1	8378.0
57.5°	9692.1	9850.4	10273.7	10976.8	12162.0	12003.8	10899.5	10524.0	10233.2	9776.8	8963.2
60°	9132.6	9294.5	9993.9	11035.7	12574.3	12673.7	11687.2	11330.1	10899.5	10299.5	9607.4
62.5°	8282.3	8407.4	9390.2	10951.0	12393.9	13063.9	12235.7	11966.9	11565.7	10796.4	10347.3
65°	7325.2	7406.2	8378.0	10273.7	12040.6	13019.7	12688.4	12537.5	12147.3	11315.4	11079.8
67.5°	6276.1	6371.8	7181.6	9055.3	11348.5	12813.6	13115.4	13100.7	12655.3	11889.6	11609.9
70°	5068.7	5076.1	5746.0	7509.3	10141.2	12401.3	13645.5	13678.6	13141.2	12320.3	11632.0
72.5°	2425.8	2624.6	3725.2	5241.8	8241.8	11591.5	13991.5	14157.1	13446.7	12305.6	10376.8
75°	555.8	574.2	1085.9	2492.0	4833.2	8897.0	13126.5	13435.7	12703.1	10641.8	7310.5
77.5°	202.5	213.5	305.5	728.8	1858.9	4597.6	9393.9	9846.7	9390.2	6879.8	3456.5
80°	136.2	132.5	158.3	323.9	854.0	1303.1	4803.7	5072.4	4630.7	2348.5	828.2
82.5°	69.9	73.6	110.4	180.4	574.2	452.8	1604.9	1744.8	1435.6	471.2	154.6
85°	33.1	33.1	62.6	114.1	242.9	158.3	357.1	430.7	386.5	206.1	51.5
87.5°	33.1	33.1	58.9	73.6	125.2	66.3	88.3	110.4	103.1	110.4	18.4
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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2451.5	2447.9	2444.2	2451.5	2447.9	2455.2	2455.2	2462.6	2462.6	2455.2	2451.5
5°	2418.4	2411.1	2403.7	2403.7	2400.0	2407.4	2429.5	2447.9	2451.5	2440.5	2436.8
7.5°	2422.1	2422.1	2414.7	2400.0	2374.2	2374.2	2374.2	2396.3	2407.4	2400.0	2396.3
10°	2488.4	2492.0	2473.6	2440.5	2396.3	2355.8	2278.5	2164.4	2057.7	2028.2	2017.2
12.5°	2602.5	2606.2	2569.3	2510.4	2418.4	2179.2	1884.7	1612.3	1402.5	1343.6	1332.5
15°	2738.7	2742.3	2676.1	2580.4	2300.6	1744.8	1306.8	997.6	813.5	769.3	765.6
17.5°	2878.5	2871.2	2771.8	2587.7	1950.9	1236.8	795.1	636.8	589.0	577.9	581.6
20°	3014.7	2992.7	2856.5	2451.5	1501.9	809.8	581.6	544.8	533.7	526.4	526.4
22.5°	3139.9	3095.7	2926.4	2182.8	1052.8	581.6	519.0	511.7	496.9	485.9	482.2
25°	3265.1	3202.5	2970.6	1833.1	706.8	508.0	489.6	474.8	456.4	441.7	438.0
27.5°	3416.0	3327.6	2948.5	1391.4	530.1	471.2	456.4	434.4	408.6	386.5	379.1
30°	3559.5	3460.1	2823.3	960.7	452.8	434.4	412.3	379.1	346.0	320.2	312.9
32.5°	3739.9	3625.8	2598.8	629.5	393.9	379.1	357.1	316.6	272.4	242.9	235.6
35°	3997.6	3868.7	2311.7	441.7	346.0	320.2	290.8	246.6	198.8	176.7	173.0
37.5°	4358.3	4185.3	1950.9	357.1	305.5	268.7	224.5	180.4	147.2	128.8	125.2
40°	4800.0	4535.0	1549.7	316.6	272.4	224.5	169.3	128.8	106.7	92.0	92.0
42.5°	5278.6	4862.6	1141.1	290.8	239.3	184.1	125.2	92.0	77.3	69.9	66.3
45°	5771.8	5153.4	769.3	268.7	209.8	139.9	88.3	62.6	51.5	51.5	47.9
47.5°	6283.5	5348.5	496.9	242.9	176.7	103.1	58.9	44.2	36.8	36.8	36.8
50°	6791.5	5451.6	353.4	220.9	143.6	69.9	44.2	33.1	29.4	29.4	29.4
52.5°	7159.6	5385.3	283.4	191.4	110.4	51.5	33.1	25.8	22.1	22.1	22.1
55°	7479.8	5271.2	246.6	165.6	81.0	36.8	25.8	22.1	18.4	18.4	18.4
57.5°	7807.4	5124.0	220.9	139.9	58.9	25.8	18.4	14.7	14.7	14.7	14.7
60°	8105.6	4873.7	191.4	110.4	40.5	18.4	14.7	11.0	11.0	11.0	11.0
62.5°	8396.4	4660.2	165.6	84.7	29.4	14.7	7.4	7.4	3.7	3.7	3.7
65°	8562.0	4373.0	132.5	55.2	18.4	11.0	3.7	3.7	0.0	0.0	0.0
67.5°	8510.5	4030.7	92.0	33.1	11.0	7.4	3.7	0.0	0.0	0.0	0.0
70°	8153.4	3570.6	55.2	18.4	11.0	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	6828.3	2643.0	33.1	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0
75°	4560.8	1214.7	18.4	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	2087.1	364.4	11.0	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	419.6	95.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.3	18.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.7	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)