

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: P400175

Luminaire Tested: **ARCH-L-PA3-240-827-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400175
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-PA3-240-827-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1030mA 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: 16663 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

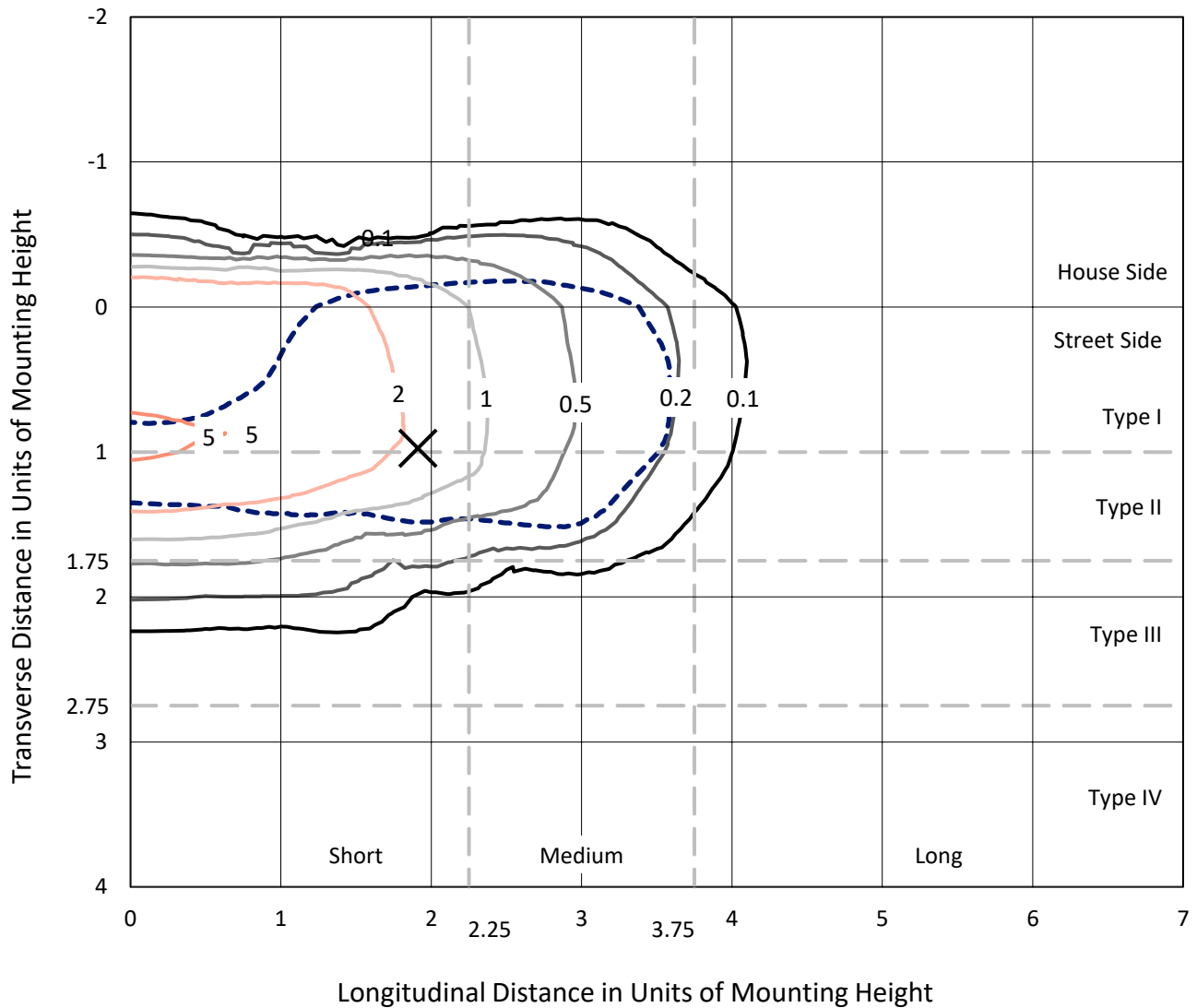
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

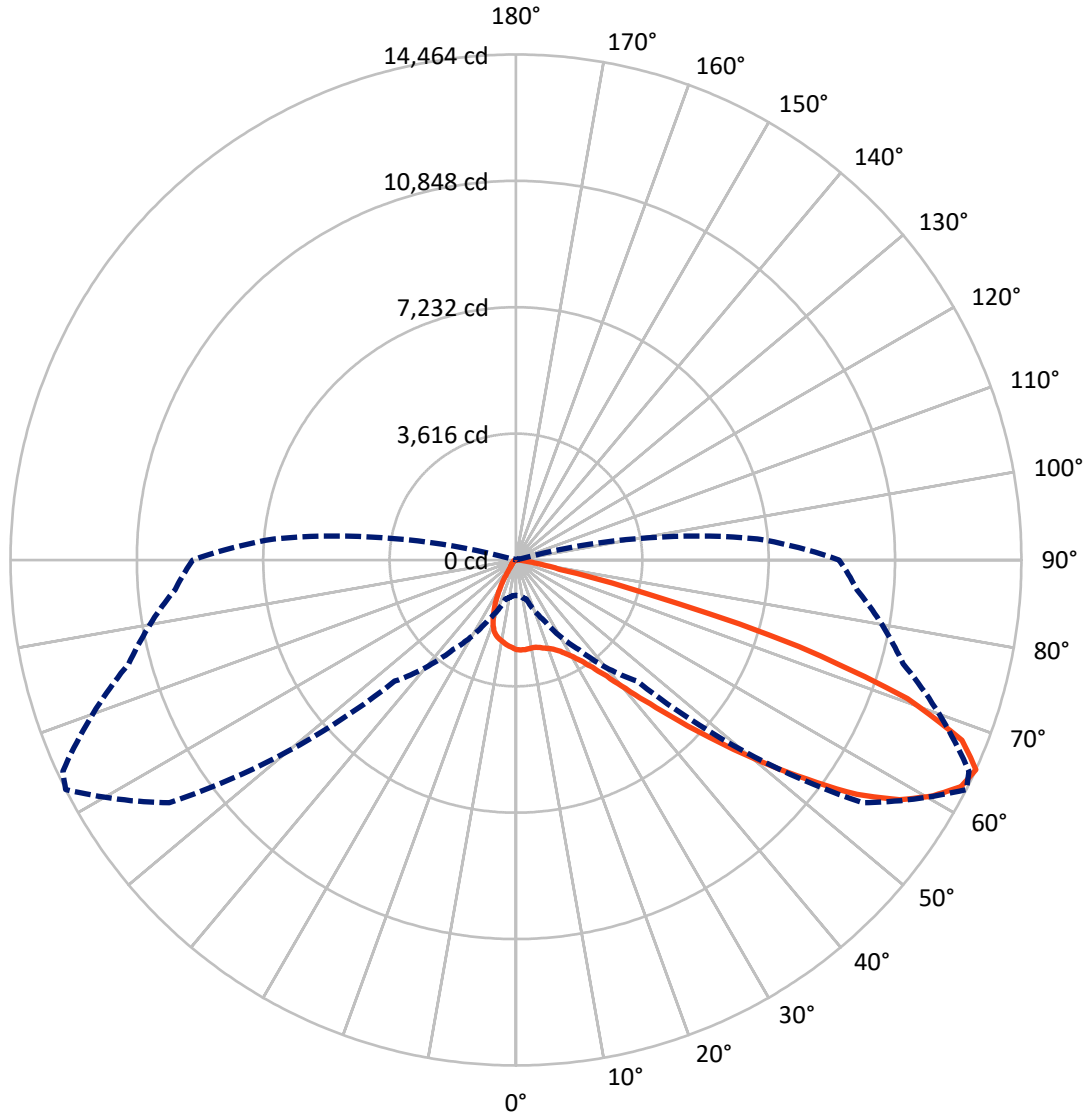
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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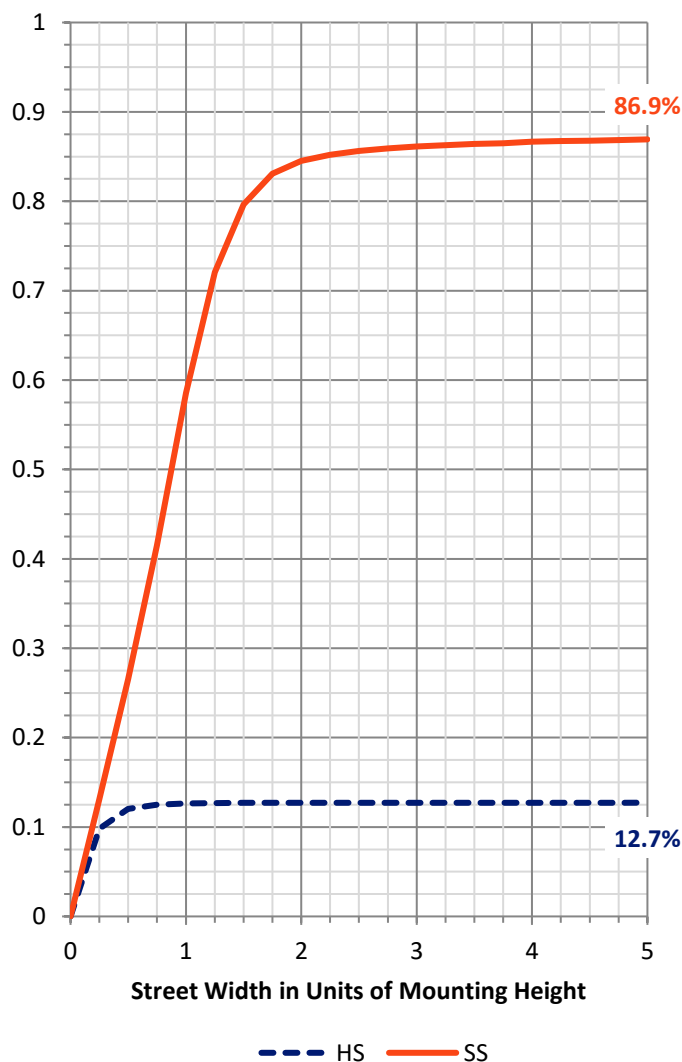
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.5	0.0	2144.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14518.5	0.0	14518.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	16663.0	0.0	16663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.4
10°-20°	577.8	3.5
20°-30°	856.4	5.1
30°-40°	1590.2	9.5
40°-50°	3368.7	20.2
50°-60°	4658.0	28.0
60°-70°	3728.9	22.4
70°-80°	1549.3	9.3
80°-90°	99.5	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°	16663.0	100.0
0°-180°	16663.0	100.0

Coefficient of Utilization

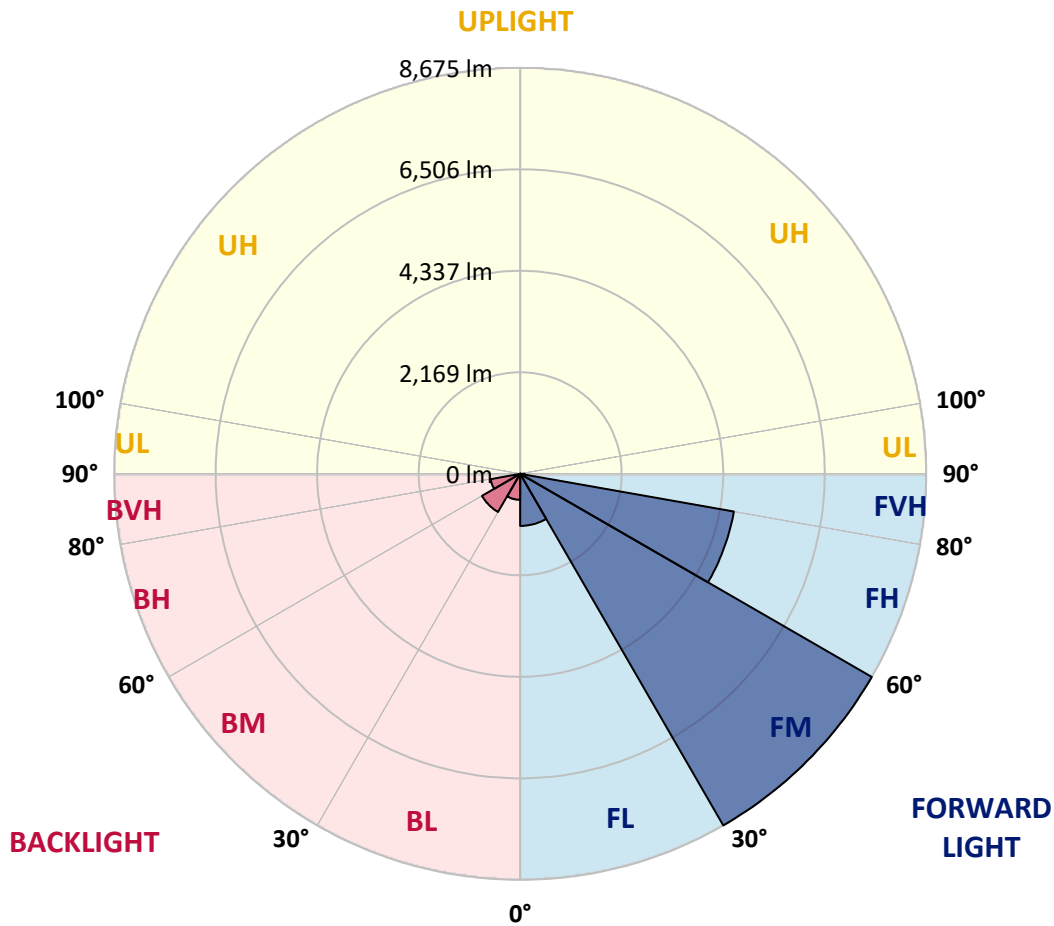


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.7	6.7			
FM (30°-60°)	8674.8	52.1			
FH (60°-80°)	4636.0	27.8			G2/5000
FVH (80°-90°)	94.9	0.6			G1/100
BL (0°-30°)	555.8	3.3	B2/1000		
BM (30°-60°)	942.0	5.7	B1/1000		
BH (60°-80°)	642.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2611.0	2604.7	2598.4	2595.3	2595.3	2592.1	2579.5	2576.4	2570.1	2563.8	2557.5
5°	2585.8	2576.4	2573.2	2576.4	2579.5	2585.8	2579.5	2579.5	2573.2	2566.9	2554.4
7.5°	2522.9	2516.6	2519.8	2529.2	2532.3	2554.4	2557.5	2566.9	2566.9	2560.7	2551.2
10°	2447.4	2444.3	2444.3	2460.0	2475.7	2507.2	2529.2	2554.4	2557.5	2557.5	2541.8
12.5°	2390.8	2387.6	2397.1	2415.9	2447.4	2488.3	2526.0	2563.8	2570.1	2573.2	2548.1
15°	2356.2	2356.2	2368.8	2406.5	2450.6	2507.2	2551.2	2601.5	2607.8	2604.7	2570.1
17.5°	2324.7	2327.9	2353.0	2415.9	2466.3	2541.8	2595.3	2651.9	2655.0	2651.9	2595.3
20°	2312.1	2318.4	2356.2	2438.0	2494.6	2579.5	2648.7	2705.4	2708.5	2695.9	2620.4
22.5°	2346.7	2349.9	2397.1	2485.2	2538.6	2633.0	2721.1	2774.6	2777.7	2758.8	2658.2
25°	2466.3	2466.3	2507.2	2582.7	2629.9	2724.2	2818.6	2881.5	2881.5	2859.5	2743.1
27.5°	2746.3	2721.1	2711.6	2733.7	2749.4	2850.1	2950.7	3029.4	3026.2	2994.8	2853.2
30°	3287.3	3224.4	3123.7	3010.5	2953.9	3023.1	3117.5	3218.1	3215.0	3164.6	2988.5
32.5°	4196.5	4105.2	3866.1	3567.3	3325.1	3246.4	3334.5	3444.6	3447.8	3388.0	3205.5
35°	5470.5	5325.8	4898.0	4482.7	3929.1	3630.2	3655.4	3774.9	3812.7	3781.2	3570.4
37.5°	6697.3	6565.2	6156.3	5580.6	4828.7	4218.5	4111.5	4215.3	4259.4	4259.4	4036.0
40°	7933.6	7779.5	7417.7	6838.9	6046.2	5137.0	4753.3	4838.2	4885.4	4894.8	4602.3
42.5°	8924.5	8823.9	8547.0	8097.2	7354.8	6747.7	5678.1	5630.9	5675.0	5640.4	5259.7
45°	9610.3	9531.7	9339.8	9169.9	8808.1	8503.0	6914.4	6596.7	6625.0	6505.4	5999.0
47.5°	9751.9	9663.8	9622.9	9858.8	10116.8	10192.3	8433.8	7744.9	7716.6	7452.3	6766.5
50°	9135.3	9144.7	9295.7	9968.9	11044.8	11724.3	10195.4	9040.9	8937.1	8348.9	7480.6
52.5°	7804.6	7955.6	8336.3	9427.9	11327.9	12837.9	11957.1	10415.6	10255.2	9220.2	8015.4
55°	6105.9	6301.0	6927.0	8182.1	10736.5	13334.9	13441.9	11843.8	11478.9	9874.6	8430.6
57.5°	4539.3	4599.1	5328.9	6474.0	9336.6	12847.3	14203.1	12944.8	12476.1	10396.8	8842.7
60°	2828.0	2865.8	3636.5	4929.4	7071.7	11044.8	14203.1	13703.0	13256.3	10865.5	9220.2
62.5°	1758.5	1771.1	2060.5	3378.6	4806.7	8191.6	13614.9	14291.2	13932.6	11202.1	9544.3
65°	1012.9	1025.5	1160.8	1909.5	3126.9	4904.2	12111.2	14464.2	14303.8	11469.5	9795.9
67.5°	739.3	745.5	799.0	1072.7	2044.7	2519.8	9097.6	13769.0	13970.3	11601.6	9789.6
70°	641.7	651.2	720.4	836.8	1475.4	1547.7	4630.6	11891.0	12454.1	11412.8	9497.1
72.5°	493.9	506.5	610.3	786.4	1082.1	1113.6	1676.7	8462.1	9314.6	10233.2	8694.9
75°	339.7	352.3	456.1	648.0	893.4	833.6	921.7	3894.5	4913.7	6864.1	6618.7
77.5°	217.1	220.2	286.3	471.9	770.7	591.4	632.3	1270.9	1783.6	3104.9	3123.7
80°	144.7	147.9	176.2	305.1	528.5	547.4	390.1	588.3	644.9	906.0	629.2
82.5°	88.1	88.1	119.5	191.9	320.9	453.0	254.8	308.3	330.3	349.2	163.6
85°	34.6	34.6	72.4	125.8	201.3	210.8	160.4	179.3	188.7	204.5	75.5
87.5°	9.4	9.4	40.9	69.2	88.1	97.5	97.5	88.1	94.4	116.4	37.7
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°	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2554.4	2544.9	2532.3	2519.8	2507.2	2497.7	2488.3	2488.3	2482.0	2472.6	2466.3
5°	2548.1	2532.3	2504.0	2482.0	2447.4	2422.2	2403.4	2387.6	2378.2	2356.2	2353.0
7.5°	2538.6	2519.8	2478.9	2434.8	2378.2	2334.2	2290.1	2258.7	2227.2	2202.0	2195.7
10°	2522.9	2500.9	2441.1	2378.2	2299.6	2217.8	2114.0	1994.4	1884.3	1821.4	1802.5
12.5°	2522.9	2494.6	2415.9	2331.0	2217.8	2016.4	1752.2	1487.9	1283.5	1192.2	1167.1
15°	2538.6	2500.9	2397.1	2280.7	2069.9	1661.0	1233.1	884.0	660.6	591.4	575.7
17.5°	2554.4	2500.9	2368.8	2211.5	1799.4	1204.8	701.5	465.6	393.2	377.5	377.5
20°	2560.7	2494.6	2331.0	2082.5	1437.6	748.7	418.4	349.2	320.9	311.4	311.4
22.5°	2585.8	2497.7	2302.7	1896.9	1044.4	440.4	330.3	292.6	264.2	254.8	254.8
25°	2648.7	2535.5	2309.0	1661.0	670.0	333.5	280.0	242.2	213.9	201.3	201.3
27.5°	2749.4	2620.4	2343.6	1387.3	421.5	286.3	235.9	195.0	173.0	160.4	160.4
30°	2862.6	2714.8	2359.3	1072.7	314.6	242.2	191.9	154.1	138.4	129.0	125.8
32.5°	3060.8	2878.4	2346.7	736.1	258.0	204.5	154.1	122.7	110.1	107.0	107.0
35°	3378.6	3164.6	2321.6	462.4	213.9	163.6	122.7	100.7	91.2	88.1	84.9
37.5°	3809.5	3583.0	2246.1	305.1	176.2	129.0	100.7	84.9	75.5	72.4	72.4
40°	4334.9	4061.2	2101.4	232.8	151.0	103.8	84.9	72.4	66.1	62.9	62.9
42.5°	4935.7	4592.8	1871.7	201.3	125.8	88.1	72.4	59.8	56.6	53.5	53.5
45°	5593.2	5149.6	1554.0	179.3	107.0	72.4	59.8	53.5	47.2	47.2	44.0
47.5°	6291.5	5709.6	1195.4	157.3	91.2	62.9	53.5	44.0	40.9	37.7	37.7
50°	6964.7	6209.7	839.9	135.3	75.5	53.5	44.0	37.7	34.6	31.5	31.5
52.5°	7439.7	6511.7	594.5	116.4	62.9	47.2	34.6	28.3	25.2	25.2	25.2
55°	7820.4	6700.5	415.2	97.5	53.5	40.9	28.3	22.0	22.0	18.9	18.9
57.5°	8179.0	6823.2	305.1	81.8	44.0	31.5	22.0	15.7	15.7	12.6	12.6
60°	8550.2	6889.2	232.8	66.1	37.7	25.2	15.7	12.6	9.4	9.4	9.4
62.5°	8924.5	6930.1	179.3	53.5	31.5	18.9	12.6	9.4	6.3	3.1	3.1
65°	9251.7	6942.7	138.4	40.9	25.2	12.6	9.4	3.1	0.0	0.0	0.0
67.5°	9349.2	6798.0	107.0	31.5	18.9	9.4	6.3	0.0	0.0	0.0	0.0
70°	9085.0	6414.2	81.8	25.2	15.7	6.3	3.1	0.0	0.0	0.0	0.0
72.5°	8062.6	5379.3	62.9	15.7	12.6	6.3	3.1	0.0	0.0	0.0	0.0
75°	5769.3	2868.9	44.0	12.6	9.4	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	2655.0	1110.5	31.5	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	519.1	276.8	12.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.5	47.2	6.3	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.9	15.7	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.7	6.3	3.1	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)