

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: P400357

Luminaire Tested: **ARCH-L-PA3-270-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400357
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-PA3-270-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 23471 lumens
Efficiency: N/A
Efficacy: 86.0 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

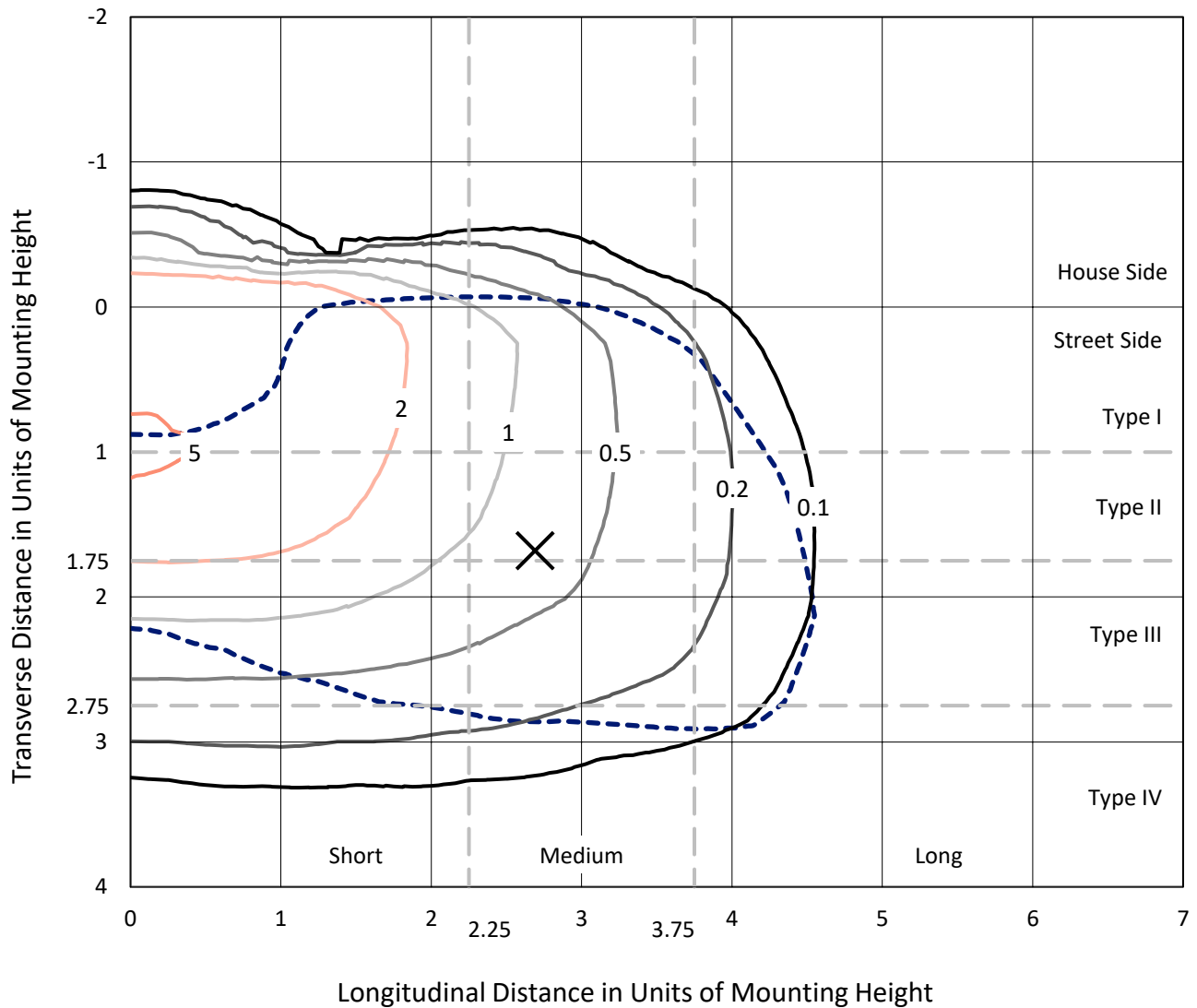
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

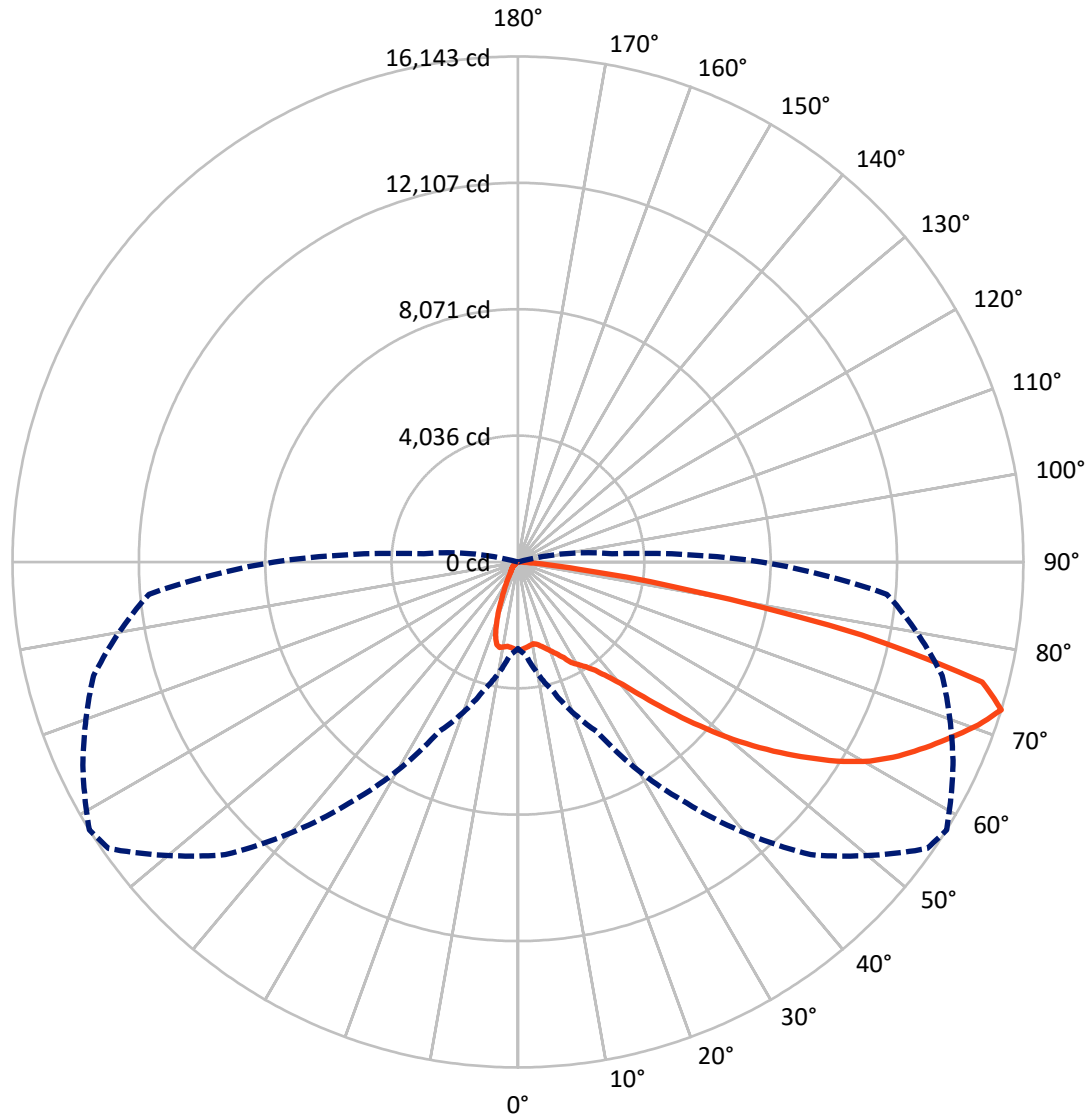
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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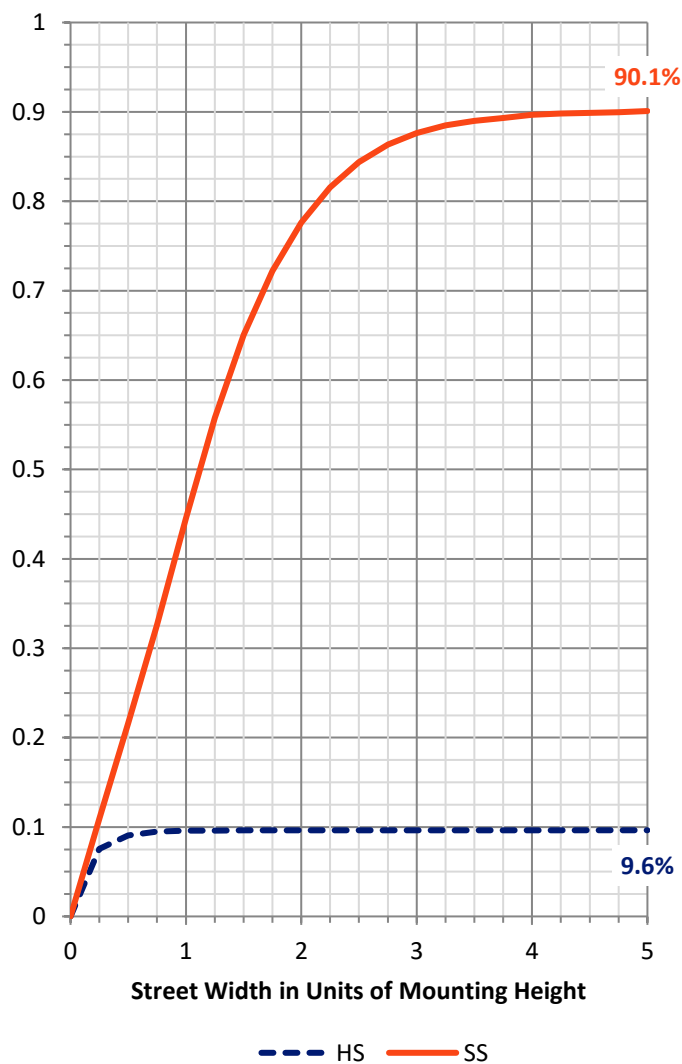
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.4	0.0	2282.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	21188.6	0.0	21188.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	23471.0	0.0	23471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.1
10°-20°	673.2	2.9
20°-30°	1057.6	4.5
30°-40°	1823.9	7.8
40°-50°	3470.0	14.8
50°-60°	5495.5	23.4
60°-70°	6412.6	27.3
70°-80°	4016.2	17.1
80°-90°	263.6	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°	23471.0	100.0
0°-180°	23471.0	100.0

Coefficient of Utilization



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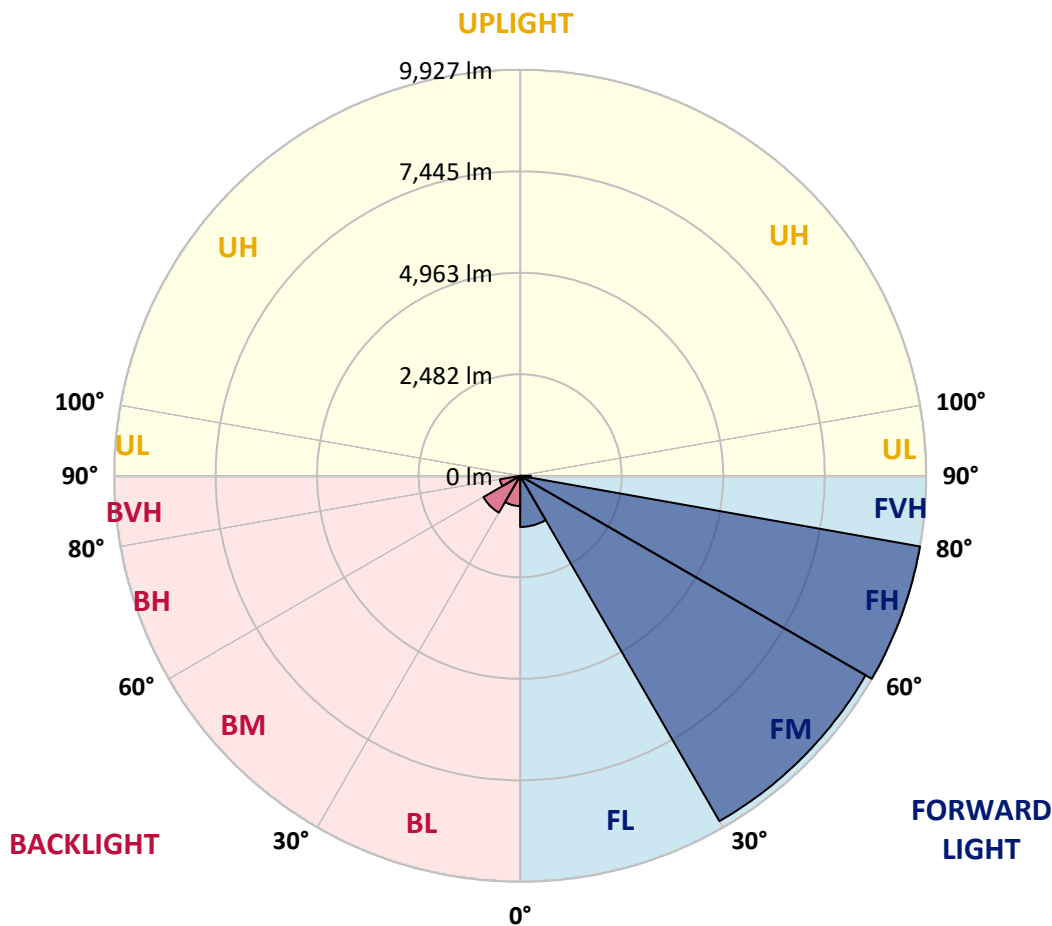
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.1	5.3			
FM (30°-60°)	9750.8	41.5			
FH (60°-80°)	9926.6	42.3			G4/12000
FVH (80°-90°)	261.1	1.1			G3/500
BL (0°-30°)	739.1	3.1	B2/1000		
BM (30°-60°)	1038.5	4.4	B2/2500		
BH (60°-80°)	502.2	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.5	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2803.8	2791.2	2787.0	2782.8	2787.0	2791.2	2778.6	2791.2	2782.8	2787.0	2795.4
5°	2703.1	2690.5	2686.3	2690.5	2703.1	2724.0	2732.4	2745.0	2745.0	2757.6	2761.8
7.5°	2589.7	2581.3	2577.1	2585.5	2610.7	2656.9	2682.1	2698.9	2715.6	2740.8	2766.0
10°	2526.8	2522.6	2518.4	2531.0	2556.1	2598.1	2631.7	2656.9	2719.8	2791.2	2837.4
12.5°	2484.8	2484.8	2493.2	2518.4	2551.9	2585.5	2665.3	2698.9	2795.4	2904.5	2967.5
15°	2451.2	2451.2	2463.8	2510.0	2556.1	2635.9	2753.4	2791.2	2904.5	3038.8	3122.8
17.5°	2426.0	2434.4	2442.8	2489.0	2577.1	2711.4	2850.0	2904.5	3043.0	3189.9	3282.3
20°	2430.2	2438.6	2442.8	2489.0	2614.9	2799.6	2975.9	3038.8	3198.3	3353.6	3446.0
22.5°	2455.4	2468.0	2472.2	2535.2	2682.1	2891.9	3118.6	3189.9	3362.0	3525.7	3597.1
25°	2560.3	2568.7	2543.6	2598.1	2778.6	3034.6	3303.3	3378.8	3550.9	3702.0	3760.8
27.5°	2917.1	2925.5	2787.0	2724.0	2854.2	3152.2	3529.9	3634.8	3848.9	3949.6	3958.0
30°	3689.4	3697.8	3425.0	3127.0	3034.6	3252.9	3655.8	3802.7	4079.8	4193.1	4142.7
32.5°	4684.2	4675.8	4302.2	3861.5	3462.8	3429.2	3836.3	3991.6	4293.8	4402.9	4365.2
35°	5683.1	5695.7	5376.7	4713.5	4142.7	3760.8	4067.2	4247.7	4612.8	4768.1	4701.0
37.5°	6367.3	6451.2	6312.7	5595.0	4978.0	4373.6	4440.7	4633.8	5091.3	5301.2	5158.5
40°	7332.7	7311.7	6975.9	6447.0	5901.4	5280.2	5045.1	5137.5	5662.1	5943.4	5720.9
42.5°	8629.6	8587.6	8016.8	7500.5	6891.9	6384.1	5905.6	5888.8	6316.9	6644.3	6321.1
45°	9804.9	9741.9	9351.5	8852.1	8184.7	7601.3	6954.9	6808.0	7106.0	7383.0	7005.3
47.5°	10740.8	10635.9	10358.9	10094.5	9930.8	9024.2	8054.6	7832.1	7983.2	8188.9	7655.8
50°	11848.9	11559.3	11156.4	10996.9	11336.9	10635.9	9112.3	8898.2	8889.8	9007.4	8327.4
52.5°	12352.6	11827.9	11601.3	11735.6	12335.8	12134.3	10254.0	9947.6	9825.8	9838.4	8952.8
55°	11744.0	11685.2	11807.0	12226.7	13011.6	12894.1	11349.5	10971.7	10791.2	10564.6	9553.0
57.5°	11051.4	11231.9	11714.6	12516.3	13867.8	13687.3	12428.2	12000.0	11668.4	11148.0	10220.4
60°	10413.5	10598.1	11395.6	12583.5	14337.9	14451.2	13326.4	12919.2	12428.2	11744.0	10954.9
62.5°	9443.9	9586.6	10707.3	12486.9	14132.3	14896.2	13951.8	13645.4	13187.9	12310.6	11798.6
65°	8352.6	8444.9	9553.0	11714.6	13729.3	14845.8	14468.0	14295.9	13851.0	12902.4	12633.8
67.5°	7156.4	7265.5	8188.9	10325.3	12940.2	14610.7	14954.9	14938.1	14430.3	13557.2	13238.2
70°	5779.7	5788.1	6552.0	8562.5	11563.5	14140.6	15559.3	15597.1	14984.3	14048.3	13263.4
72.5°	2766.0	2992.7	4247.7	5976.9	9397.7	13217.2	15953.9	16142.8	15332.7	14031.5	11832.1
75°	633.8	654.8	1238.2	2841.6	5511.0	10144.8	14967.5	15320.1	14484.8	12134.3	8335.8
77.5°	230.9	243.4	348.4	831.1	2119.6	5242.4	10711.5	11227.7	10707.3	7844.7	3941.2
80°	155.3	151.1	180.5	369.4	973.8	1485.8	5477.5	5783.9	5280.2	2677.9	944.4
82.5°	79.7	83.9	125.9	205.7	654.8	516.3	1830.0	1989.5	1636.9	537.3	176.3
85°	37.8	37.8	71.4	130.1	277.0	180.5	407.1	491.1	440.7	235.0	58.8
87.5°	37.8	37.8	67.2	83.9	142.7	75.6	100.7	125.9	117.5	125.9	21.0
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°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2795.4	2791.2	2787.0	2795.4	2791.2	2799.6	2799.6	2808.0	2808.0	2799.6	2795.4
5°	2757.6	2749.2	2740.8	2740.8	2736.6	2745.0	2770.2	2791.2	2795.4	2782.8	2778.6
7.5°	2761.8	2761.8	2753.4	2736.6	2707.2	2707.2	2707.2	2732.4	2745.0	2736.6	2732.4
10°	2837.4	2841.6	2820.6	2782.8	2732.4	2686.3	2598.1	2468.0	2346.3	2312.7	2300.1
12.5°	2967.5	2971.7	2929.7	2862.5	2757.6	2484.8	2149.0	1838.4	1599.2	1532.0	1519.4
15°	3122.8	3127.0	3051.4	2942.3	2623.3	1989.5	1490.0	1137.5	927.6	877.2	873.0
17.5°	3282.3	3273.9	3160.6	2950.7	2224.6	1410.3	906.6	726.1	671.6	659.0	663.2
20°	3437.6	3412.4	3257.1	2795.4	1712.5	923.4	663.2	621.2	608.6	600.2	600.2
22.5°	3580.3	3529.9	3336.8	2489.0	1200.4	663.2	591.8	583.4	566.6	554.0	549.8
25°	3723.0	3651.6	3387.2	2090.2	805.9	579.2	558.2	541.4	520.5	503.7	499.5
27.5°	3895.1	3794.3	3362.0	1586.6	604.4	537.3	520.5	495.3	465.9	440.7	432.3
30°	4058.8	3945.4	3219.3	1095.5	516.3	495.3	470.1	432.3	394.5	365.2	356.8
32.5°	4264.4	4134.3	2963.3	717.7	449.1	432.3	407.1	361.0	310.6	277.0	268.6
35°	4558.2	4411.3	2635.9	503.7	394.5	365.2	331.6	281.2	226.7	201.5	197.3
37.5°	4969.6	4772.3	2224.6	407.1	348.4	306.4	256.0	205.7	167.9	146.9	142.7
40°	5473.3	5171.1	1767.1	361.0	310.6	256.0	193.1	146.9	121.7	104.9	104.9
42.5°	6018.9	5544.6	1301.2	331.6	272.8	209.9	142.7	104.9	88.1	79.7	75.6
45°	6581.3	5876.2	877.2	306.4	239.2	159.5	100.7	71.4	58.8	58.8	54.6
47.5°	7164.8	6098.7	566.6	277.0	201.5	117.5	67.2	50.4	42.0	42.0	42.0
50°	7744.0	6216.2	402.9	251.8	163.7	79.7	50.4	37.8	33.6	33.6	33.6
52.5°	8163.7	6140.6	323.2	218.3	125.9	58.8	37.8	29.4	25.2	25.2	25.2
55°	8528.9	6010.5	281.2	188.9	92.3	42.0	29.4	25.2	21.0	21.0	21.0
57.5°	8902.4	5842.6	251.8	159.5	67.2	29.4	21.0	16.8	16.8	16.8	16.8
60°	9242.4	5557.2	218.3	125.9	46.2	21.0	16.8	12.6	12.6	12.6	12.6
62.5°	9574.0	5313.8	188.9	96.5	33.6	16.8	8.4	8.4	4.2	4.2	4.2
65°	9762.9	4986.4	151.1	63.0	21.0	12.6	4.2	4.2	0.0	0.0	0.0
67.5°	9704.1	4596.0	104.9	37.8	12.6	8.4	4.2	0.0	0.0	0.0	0.0
70°	9297.0	4071.4	63.0	21.0	12.6	8.4	4.2	0.0	0.0	0.0	0.0
72.5°	7786.0	3013.6	37.8	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0
75°	5200.4	1385.1	21.0	12.6	4.2	4.2	0.0	0.0	0.0	0.0	0.0
77.5°	2379.9	415.5	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	478.5	109.1	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.7	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	4.2	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)