

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: P258102

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7050-HSS**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P258102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/21/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2U-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA 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: 19976 lumens
Efficiency: N/A
Efficacy: 76.5 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

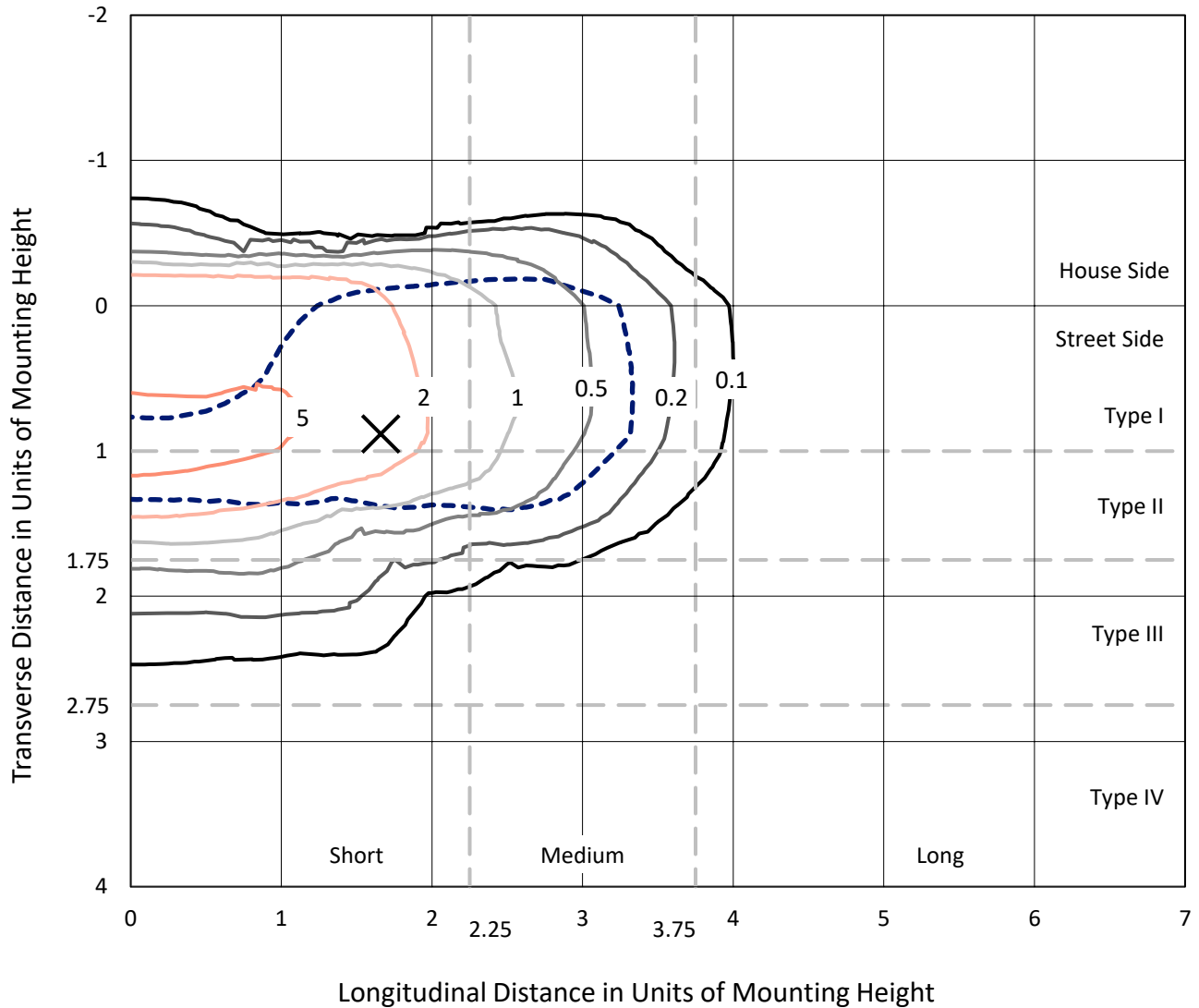
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

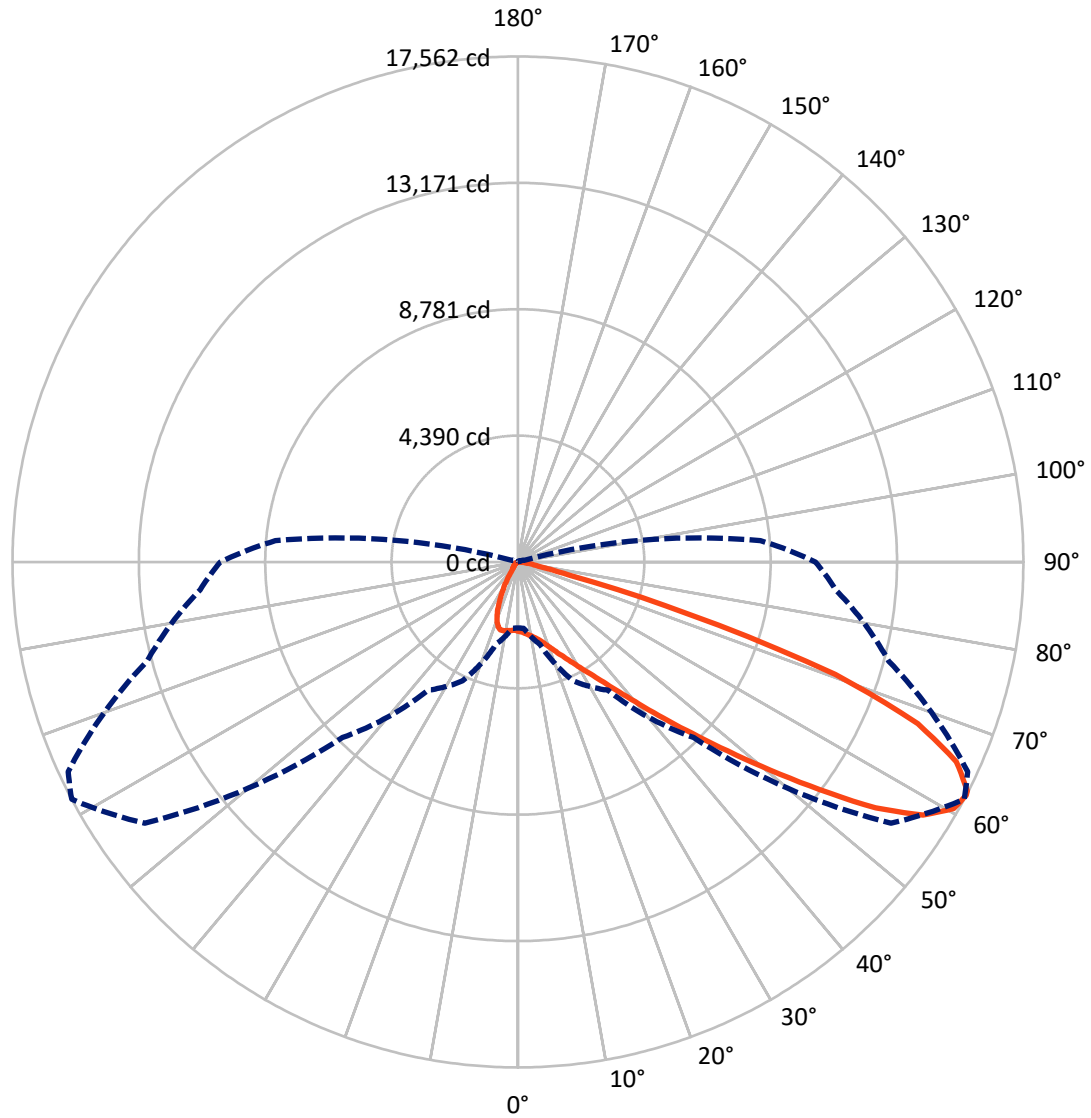
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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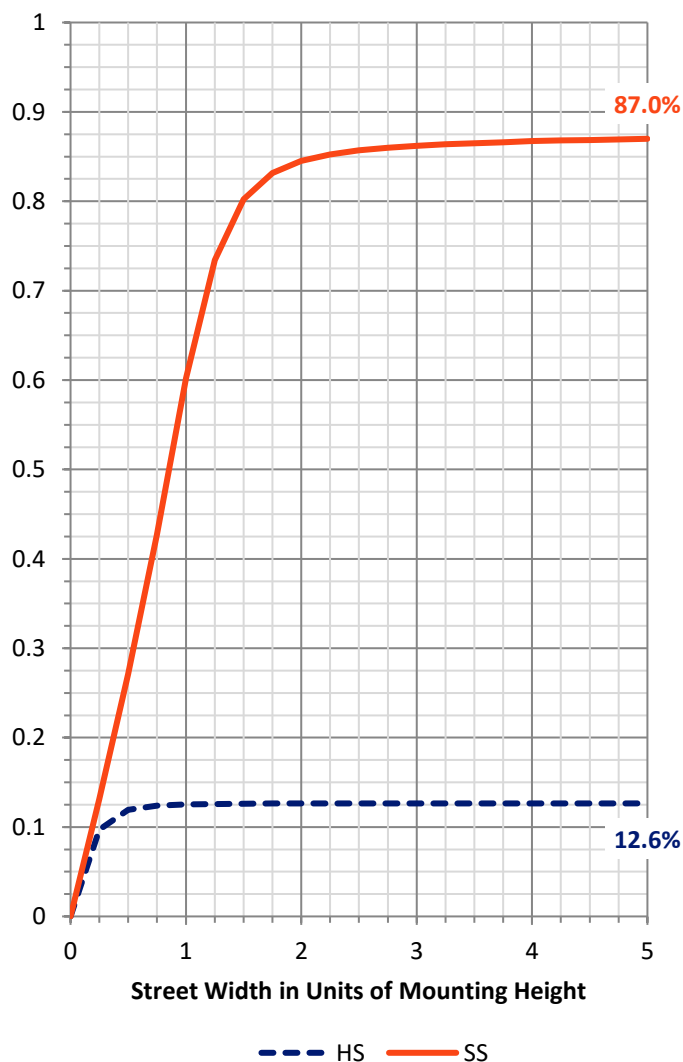
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.2	0.0	2554.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17421.8	0.0	17421.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	19976.0	0.0	19976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.2
10°-20°	646.7	3.2
20°-30°	1086.1	5.4
30°-40°	2081.9	10.4
40°-50°	4252.4	21.3
50°-60°	5627.4	28.2
60°-70°	4371.5	21.9
70°-80°	1577.9	7.9
80°-90°	100.6	0.5
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°	19976.0	100.0
0°-180°	19976.0	100.0

Coefficient of Utilization



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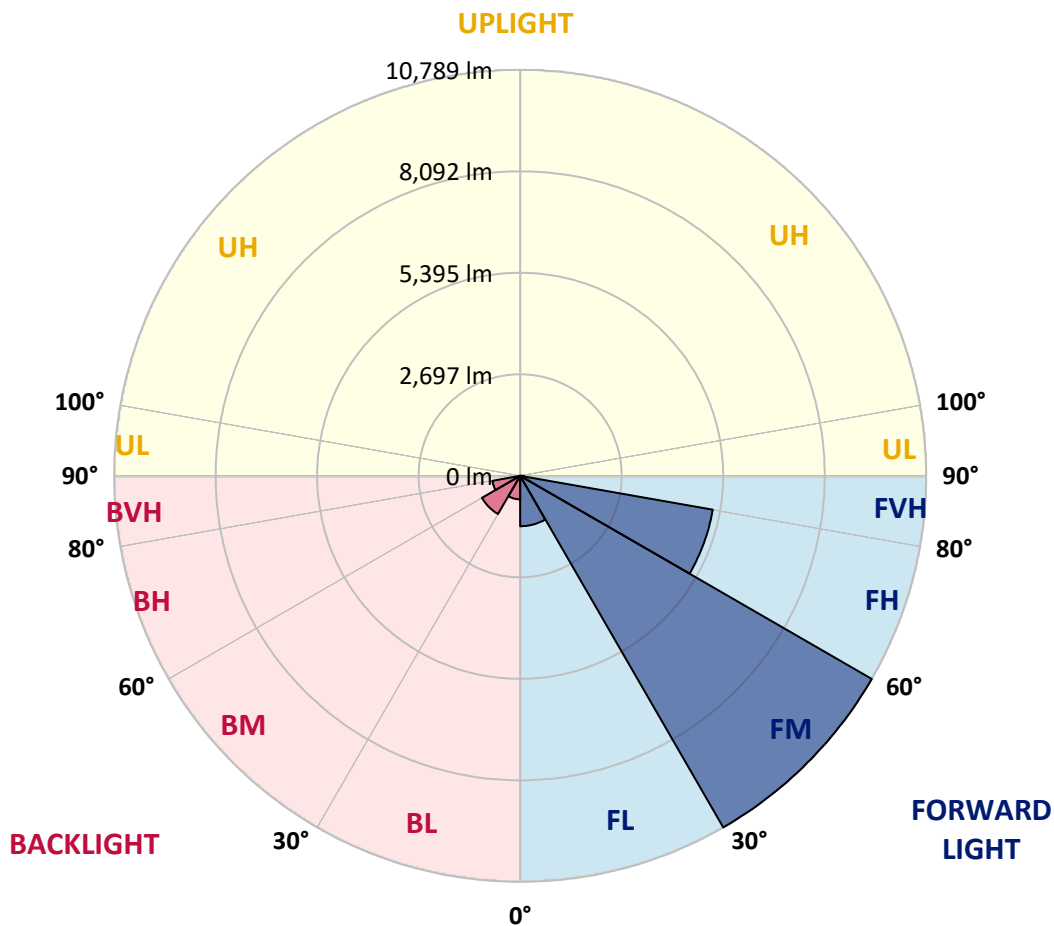
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.2	6.7			
FM (30°-60°)	10789.1	54.0			
FH (60°-80°)	5197.3	26.0			G3/7500
FVH (80°-90°)	96.2	0.5			G1/100
BL (0°-30°)	625.1	3.1	B2/1000		
BM (30°-60°)	1172.6	5.9	B2/2500		
BH (60°-80°)	752.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.4	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°	62°	65°	75°	85°
0°	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4
2.5°	2470.2	2465.3	2460.4	2455.5	2455.5	2450.6	2445.7	2435.8	2426.0	2416.2	2411.3
5°	2514.4	2509.5	2504.6	2509.5	2504.6	2504.6	2499.7	2489.9	2480.0	2465.3	2450.6
7.5°	2548.8	2543.9	2539.0	2543.9	2548.8	2553.7	2558.6	2548.8	2543.9	2524.2	2509.5
10°	2593.0	2588.1	2583.2	2593.0	2593.0	2617.5	2622.5	2617.5	2612.6	2597.9	2573.3
12.5°	2656.8	2661.7	2661.7	2671.6	2681.4	2710.8	2720.7	2705.9	2705.9	2686.3	2656.8
15°	2774.7	2774.7	2774.7	2784.5	2789.4	2828.7	2838.5	2823.8	2833.6	2799.2	2769.8
17.5°	2887.6	2892.6	2902.4	2922.0	2922.0	2956.4	2976.0	2976.0	2995.7	2951.5	2912.2
20°	3000.6	3005.5	3020.2	3064.4	3064.4	3108.6	3143.0	3157.7	3177.4	3133.2	3064.4
22.5°	3123.4	3123.4	3147.9	3216.7	3201.9	3290.3	3354.2	3378.7	3398.4	3339.5	3231.4
25°	3310.0	3290.3	3310.0	3373.8	3364.0	3486.8	3604.6	3629.2	3653.8	3585.0	3422.9
27.5°	3663.6	3634.1	3565.4	3570.3	3570.3	3712.7	3879.7	3914.0	3928.8	3869.8	3668.5
30°	4370.8	4370.8	4115.4	3943.5	3830.5	3958.2	4194.0	4252.9	4272.5	4184.1	3918.9
32.5°	5603.4	5603.4	5132.0	4694.9	4267.6	4267.6	4537.7	4645.8	4665.4	4562.3	4252.9
35°	7174.9	7165.1	6457.9	5858.8	5023.9	4709.6	4940.4	5122.1	5181.1	5043.6	4685.1
37.5°	8844.6	8780.8	8019.6	7332.1	6187.8	5416.8	5485.5	5726.2	5780.2	5667.2	5244.9
40°	10200.1	10126.4	9512.5	8937.9	7690.6	6546.3	6271.3	6492.3	6556.1	6399.0	5912.8
42.5°	11427.8	11246.1	10823.8	10411.2	9419.2	8500.9	7317.3	7405.7	7474.5	7307.5	6664.2
45°	12316.7	12036.8	11820.7	11693.0	11167.5	10647.0	8672.8	8496.0	8520.5	8314.3	7484.3
47.5°	12341.2	12144.8	12164.4	12498.4	12714.5	12694.8	10435.8	9807.2	9713.9	9370.1	8358.5
50°	11162.6	11275.6	11634.1	12586.8	13755.6	14462.8	12532.8	11359.0	11079.1	10460.3	9227.7
52.5°	9198.2	9375.0	10047.8	11653.7	13907.8	15626.7	14708.3	13131.9	12631.0	11540.8	9895.6
55°	7204.4	7214.2	7921.4	9556.7	12891.3	15837.8	16446.8	15081.6	14315.4	12360.9	10337.6
57.5°	4955.2	5225.3	6124.0	7224.0	10597.8	14786.9	17100.0	16594.1	15607.0	12866.7	10647.0
60°	3246.1	3260.9	4306.9	5578.8	7214.2	12031.8	16702.2	17394.6	16653.1	13166.3	10858.1
62°	2288.5	2313.1	2961.3	4557.4	5436.4	8623.6	15823.1	17561.6	17242.4	13343.1	11079.1
62.5°	2121.5	2141.2	2686.3	4302.0	5107.4	7734.8	15508.8	17522.3	17330.8	13402.0	11157.7
65°	1556.8	1556.8	1758.1	2956.4	3742.2	4179.2	13141.7	16741.5	17212.9	13873.5	11452.4
67.5°	1203.2	1213.0	1281.8	1822.0	2823.8	2534.1	8387.9	14983.3	15985.2	14570.8	11619.3
70°	1036.2	1031.3	1080.4	1208.1	2038.0	1684.5	3693.0	11693.0	13387.3	14394.0	11467.1
72.5°	766.1	771.0	884.0	1060.8	1419.3	1095.1	1669.7	6207.5	8682.6	11265.7	9826.8
75°	491.1	496.0	623.7	834.9	1021.5	717.0	962.5	1851.4	3555.5	6246.7	6011.0
77.5°	329.0	338.9	407.6	584.4	893.8	446.9	604.0	775.9	1070.6	2342.5	2155.9
80°	221.0	221.0	260.3	392.9	564.8	373.2	324.1	515.7	554.9	726.8	363.4
82.5°	147.3	147.3	171.9	260.3	368.3	333.9	196.4	279.9	324.1	363.4	127.7
85°	88.4	88.4	117.9	162.1	240.6	186.6	127.7	157.2	167.0	230.8	68.8
87.5°	54.0	49.1	78.6	113.0	127.7	113.0	83.5	83.5	88.4	127.7	34.4
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°	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4	2406.4
2.5°	2401.5	2396.5	2391.6	2381.8	2367.1	2357.3	2347.4	2337.6	2327.8	2327.8	2342.5
5°	2445.7	2430.9	2411.3	2391.6	2362.2	2342.5	2327.8	2308.2	2298.3	2298.3	2303.2
7.5°	2499.7	2484.9	2450.6	2416.2	2372.0	2337.6	2303.2	2259.0	2224.7	2209.9	2224.7
10°	2558.6	2539.0	2489.9	2435.8	2386.7	2298.3	2185.4	2047.9	1930.0	1876.0	1900.5
12.5°	2632.3	2607.7	2548.8	2475.1	2362.2	2146.1	1866.2	1547.0	1345.6	1252.3	1271.9
15°	2740.3	2705.9	2622.5	2509.5	2259.0	1792.5	1335.8	967.5	780.8	702.3	712.1
17.5°	2868.0	2823.8	2710.8	2499.7	1993.8	1291.6	795.6	564.8	486.2	466.5	466.5
20°	3005.5	2946.6	2799.2	2426.0	1591.2	810.3	496.0	432.2	402.7	388.0	388.0
22.5°	3147.9	3069.3	2872.9	2254.1	1134.4	505.8	407.6	363.4	329.0	314.3	314.3
25°	3319.8	3216.7	2946.6	1954.6	721.9	407.6	348.7	304.5	270.1	250.5	255.4
27.5°	3521.2	3388.6	3010.4	1581.3	466.5	353.6	289.7	245.5	216.1	206.3	206.3
30°	3732.3	3575.2	3025.2	1183.5	378.1	304.5	240.6	201.3	181.7	171.9	171.9
32.5°	4022.1	3815.8	2981.0	785.8	319.2	255.4	201.3	167.0	152.2	147.3	147.3
35°	4405.1	4130.1	2877.8	486.2	270.1	211.2	167.0	147.3	132.6	127.7	127.7
37.5°	4891.3	4567.2	2696.1	333.9	230.8	171.9	142.4	127.7	117.9	113.0	113.0
40°	5539.6	5097.6	2460.4	289.7	196.4	147.3	122.8	113.0	103.1	103.1	103.1
42.5°	6227.1	5740.9	2155.9	255.4	167.0	127.7	108.0	98.2	93.3	88.4	88.4
45°	6978.5	6399.0	1777.8	225.9	142.4	113.0	98.2	83.5	78.6	78.6	78.6
47.5°	7724.9	7076.7	1365.2	196.4	122.8	98.2	83.5	73.7	68.8	63.8	63.8
50°	8491.0	7690.6	1001.8	171.9	108.0	88.4	73.7	63.8	54.0	49.1	49.1
52.5°	9046.0	8058.9	731.7	147.3	93.3	73.7	58.9	49.1	39.3	34.4	34.4
55°	9453.6	8284.8	535.3	122.8	83.5	63.8	49.1	39.3	29.5	29.5	24.6
57.5°	9772.8	8392.8	402.7	108.0	73.7	54.0	39.3	29.5	24.6	19.6	19.6
60°	10018.4	8397.7	299.6	88.4	63.8	44.2	29.5	19.6	14.7	14.7	14.7
62°	10342.5	8461.6	245.5	73.7	58.9	39.3	24.6	14.7	9.8	4.9	4.9
62.5°	10435.8	8486.1	235.7	73.7	54.0	34.4	19.6	14.7	9.8	4.9	4.9
65°	10868.0	8530.3	181.7	58.9	44.2	29.5	14.7	9.8	0.0	0.0	0.0
67.5°	11260.8	8461.6	132.6	44.2	34.4	19.6	14.7	4.9	0.0	0.0	0.0
70°	11221.5	7990.1	93.3	29.5	24.6	14.7	9.8	0.0	0.0	0.0	0.0
72.5°	9247.3	5981.5	63.8	24.6	14.7	9.8	4.9	0.0	0.0	0.0	0.0
75°	5583.8	2617.5	44.2	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0
77.5°	1831.8	947.8	29.5	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0
80°	299.6	157.2	14.7	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0
82.5°	93.3	39.3	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.4	14.7	9.8	9.8	4.9	4.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	9.8	9.8	9.8	4.9	4.9	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)