

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: P258055

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA 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: 15565.1 lumens
Efficiency: N/A
Efficacy: 82.4 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

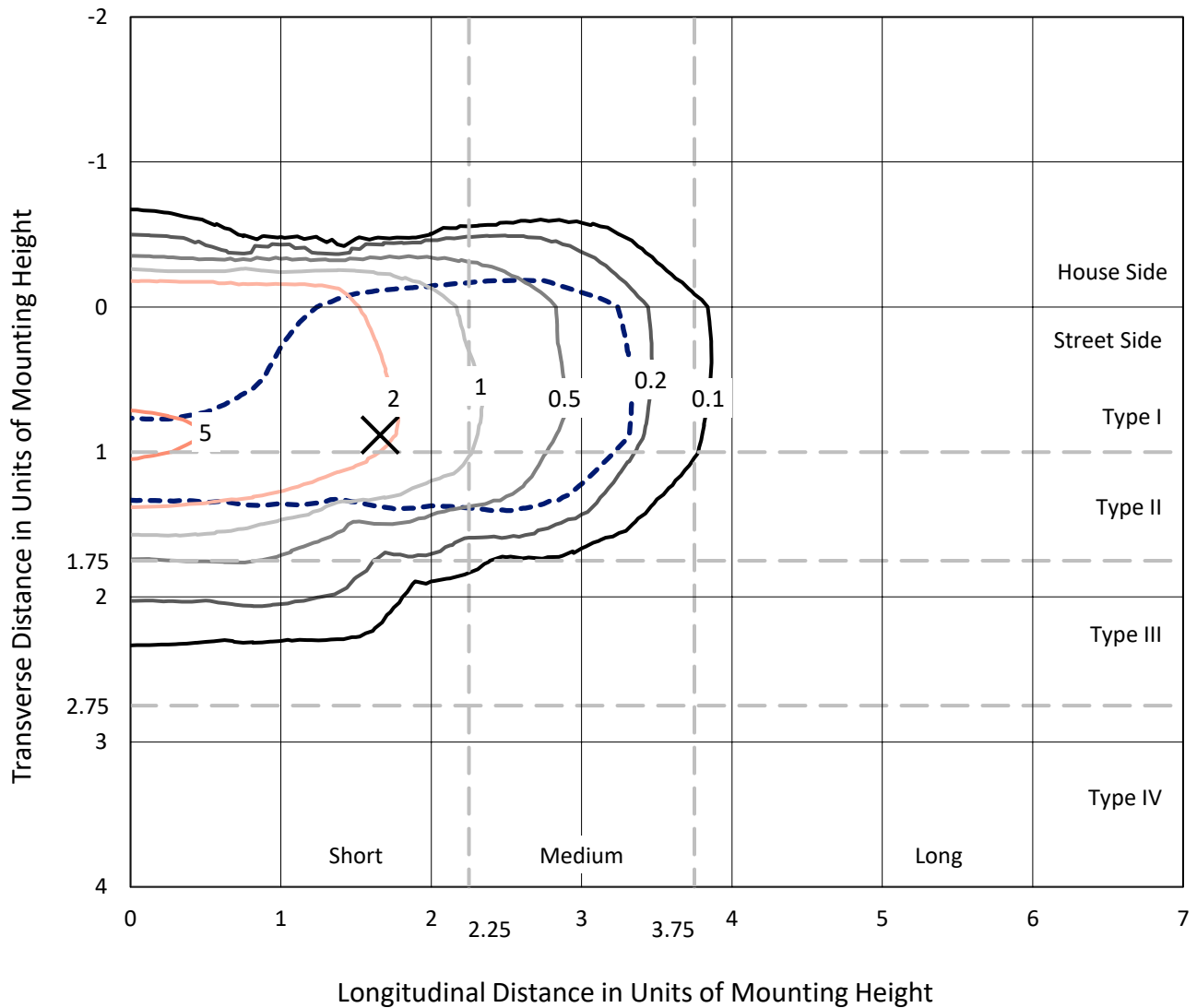
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

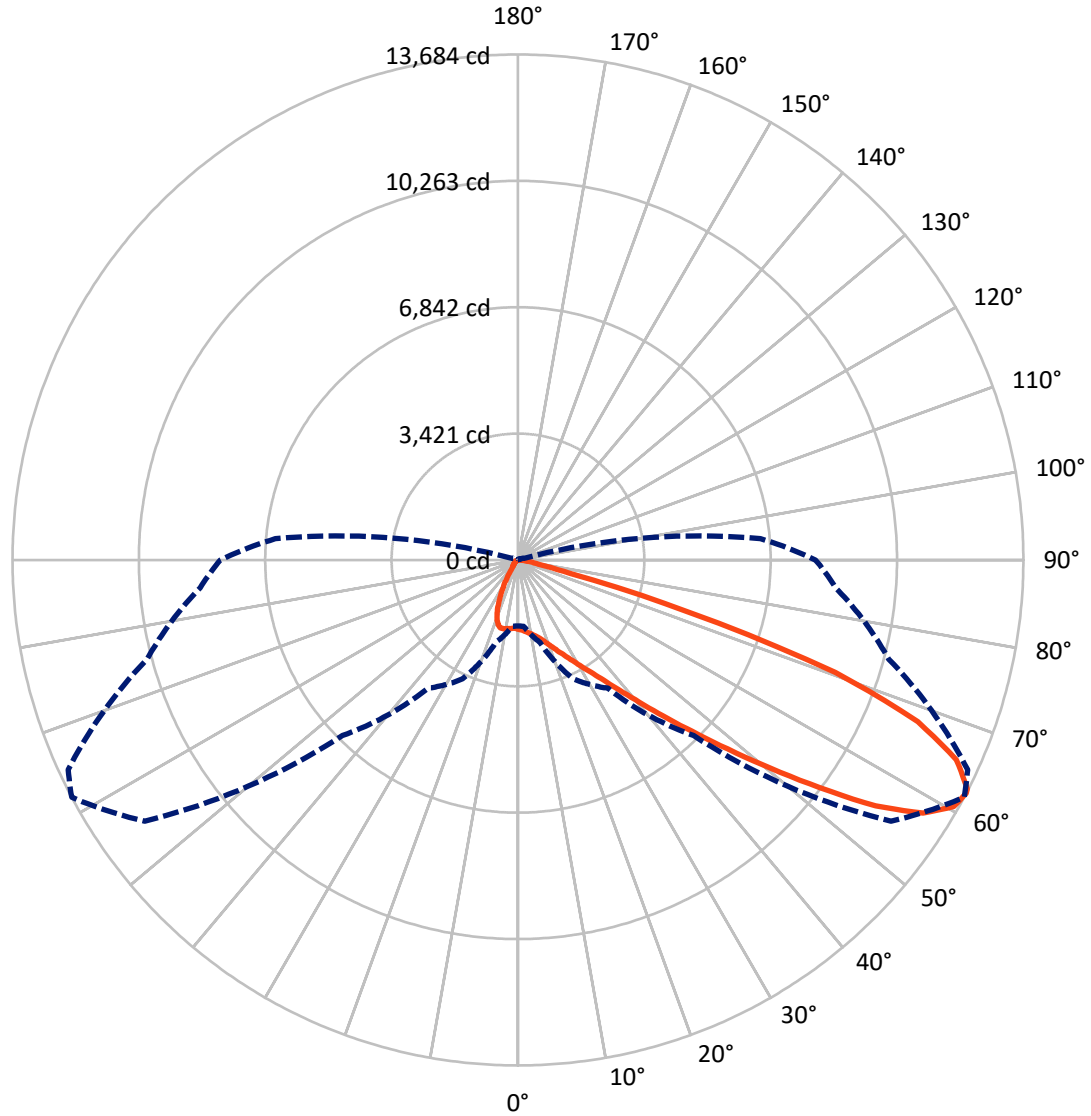
✕ Max cd
 - - - 1/2 Max cd



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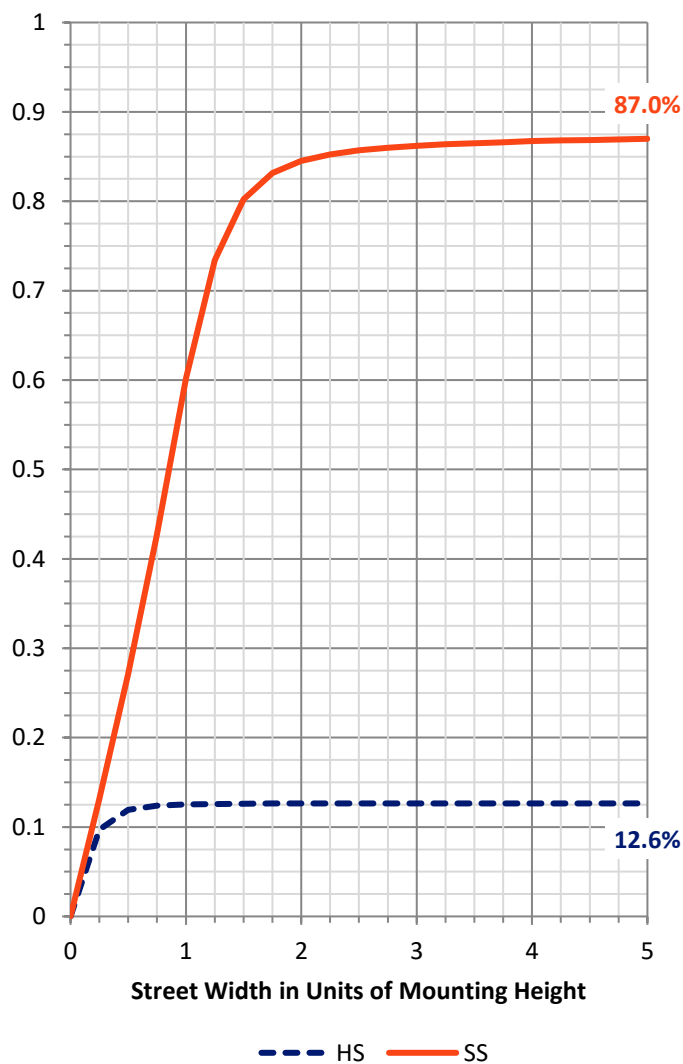
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1990.2	0.0	1990.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13574.9	0.0	13574.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	15565.1	0.0	15565.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	1.2
10°-20°	503.9	3.2
20°-30°	846.3	5.4
30°-40°	1622.2	10.4
40°-50°	3313.4	21.3
50°-60°	4384.8	28.2
60°-70°	3406.2	21.9
70°-80°	1229.5	7.9
80°-90°	78.4	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°	15565.1	100.0
0°-180°	15565.1	100.0

Coefficient of Utilization



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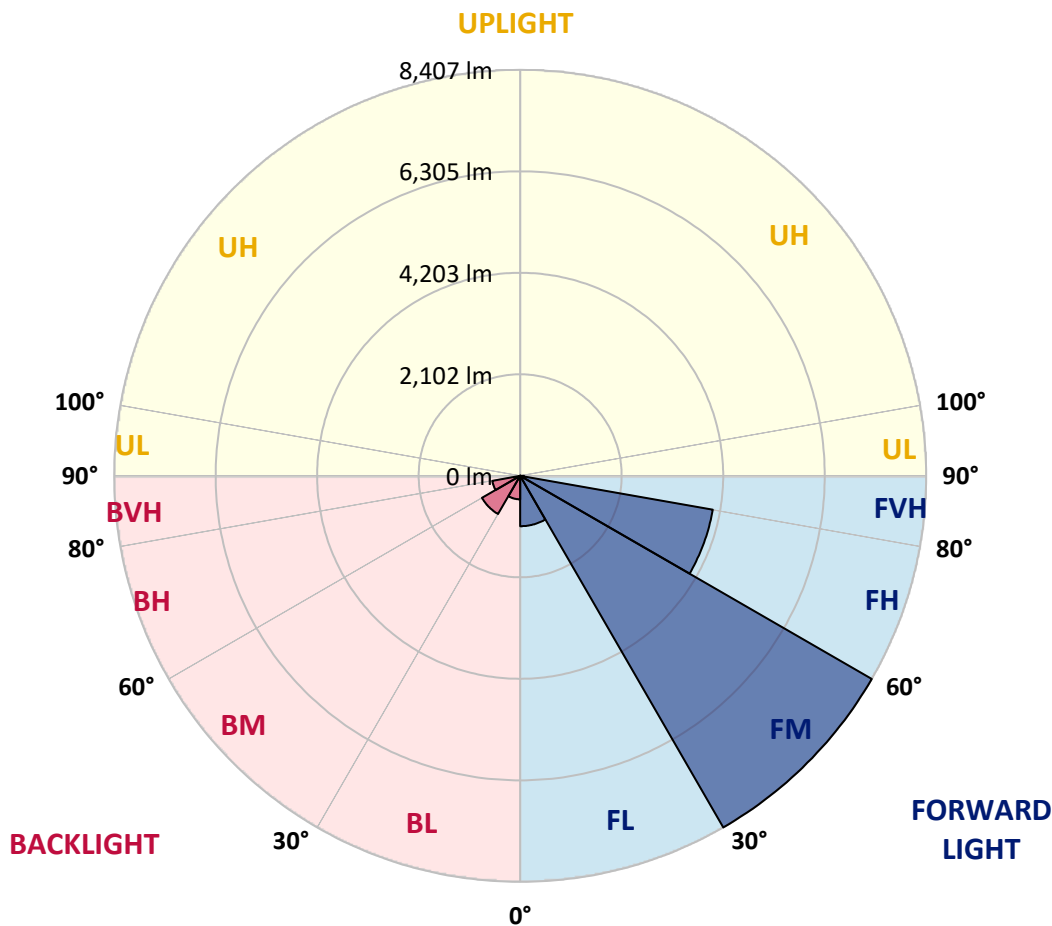
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.5	6.7			
FM (30°-60°)	8406.7	54.0			
FH (60°-80°)	4049.7	26.0			G2/5000
FVH (80°-90°)	74.9	0.5			G1/100
BL (0°-30°)	487.1	3.1	B1/500		
BM (30°-60°)	913.6	5.9	B1/1000		
BH (60°-80°)	586.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1924.7	1920.9	1917.1	1913.2	1913.2	1909.5	1905.6	1898.0	1890.3	1882.6	1878.8
5°	1959.2	1955.4	1951.6	1955.4	1951.6	1951.6	1947.8	1940.1	1932.5	1920.9	1909.5
7.5°	1986.0	1982.2	1978.3	1982.2	1986.0	1989.8	1993.7	1986.0	1982.2	1966.8	1955.4
10°	2020.4	2016.6	2012.8	2020.4	2020.4	2039.6	2043.3	2039.6	2035.7	2024.2	2005.1
12.5°	2070.1	2074.0	2074.0	2081.6	2089.2	2112.3	2119.9	2108.4	2108.4	2093.1	2070.1
15°	2162.0	2162.0	2162.0	2169.7	2173.5	2204.1	2211.7	2200.3	2207.9	2181.2	2158.2
17.5°	2249.9	2253.8	2261.4	2276.9	2276.9	2303.6	2318.9	2318.9	2334.3	2299.8	2269.2
20°	2338.0	2341.9	2353.3	2387.8	2387.8	2422.2	2449.0	2460.5	2475.9	2441.4	2387.8
22.5°	2433.6	2433.6	2452.9	2506.4	2494.9	2563.8	2613.6	2632.7	2648.0	2602.0	2517.9
25°	2579.1	2563.8	2579.1	2628.9	2621.2	2716.8	2808.7	2827.8	2847.0	2793.4	2667.1
27.5°	2854.6	2831.7	2778.1	2782.0	2782.0	2892.8	3022.9	3049.8	3061.2	3015.3	2858.4
30°	3405.6	3405.6	3206.6	3072.7	2984.8	3084.2	3267.8	3313.9	3329.1	3260.2	3053.6
32.5°	4366.1	4366.1	3998.8	3658.2	3325.3	3325.3	3535.7	3620.0	3635.3	3554.9	3313.9
35°	5590.6	5582.9	5031.9	4565.1	3914.5	3669.7	3849.5	3991.1	4037.0	3929.8	3650.6
37.5°	6891.6	6842.0	6248.7	5713.0	4821.5	4220.6	4274.2	4461.8	4503.8	4415.8	4086.8
40°	7947.7	7890.3	7412.0	6964.3	5992.5	5100.8	4886.5	5058.7	5108.4	4986.0	4607.1
42.5°	8904.4	8762.8	8433.7	8112.3	7339.4	6623.8	5701.5	5770.4	5824.1	5693.9	5192.6
45°	9597.0	9379.0	9210.5	9111.0	8701.6	8295.9	6757.6	6619.9	6639.1	6478.4	5831.7
47.5°	9616.1	9463.1	9478.4	9738.6	9907.0	9891.7	8131.4	7641.6	7568.9	7301.0	6512.8
50°	8697.8	8785.7	9065.1	9807.4	10718.3	11269.2	9765.4	8850.9	8632.7	8150.6	7190.2
52.5°	7167.2	7304.8	7829.2	9080.4	10836.9	12176.1	11460.5	10232.2	9842.0	8992.5	7710.5
55°	5613.5	5621.2	6172.3	7446.4	10044.8	12340.7	12815.1	11751.4	11154.4	9631.4	8054.9
57.5°	3861.0	4071.4	4771.7	5628.9	8257.7	11521.8	13324.0	12930.0	12160.8	10025.6	8295.9
60°	2529.4	2540.9	3355.9	4347.0	5621.2	9375.1	13014.1	13553.7	12975.8	10259.0	8460.5
62°	1783.2	1802.3	2307.4	3551.0	4236.0	6719.5	12329.2	13683.7	13435.1	10396.8	8632.7
62.5°	1653.1	1668.4	2093.1	3352.1	3979.7	6026.8	12084.3	13653.1	13503.9	10442.7	8694.0
65°	1213.0	1213.0	1369.9	2303.6	2915.8	3256.4	10239.9	13044.8	13412.1	10810.0	8923.5
67.5°	937.6	945.2	998.7	1419.6	2200.3	1974.6	6535.8	11674.9	12455.4	11353.4	9053.7
70°	807.4	803.6	841.9	941.4	1588.0	1312.5	2877.6	9111.0	10431.2	11215.7	8935.0
72.5°	597.0	600.8	688.8	826.5	1105.9	853.4	1301.1	4836.8	6765.4	8778.1	7657.0
75°	382.6	386.4	485.9	650.5	796.0	558.7	749.9	1442.7	2770.4	4867.4	4683.7
77.5°	256.4	264.1	317.6	455.4	696.4	348.2	470.7	604.6	834.2	1825.2	1679.9
80°	172.2	172.2	202.7	306.2	440.1	290.8	252.6	401.7	432.4	566.3	283.2
82.5°	114.8	114.8	134.0	202.7	287.1	260.2	153.1	218.1	252.6	283.2	99.5
85°	68.9	68.9	91.9	126.3	187.5	145.5	99.5	122.5	130.1	179.8	53.5
87.5°	42.1	38.2	61.1	88.1	99.5	88.1	65.0	65.0	68.9	99.5	26.8
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°	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0	1875.0
2.5°	1871.2	1867.4	1863.5	1855.9	1844.4	1836.7	1829.1	1821.5	1813.8	1813.8	1825.2
5°	1905.6	1894.1	1878.8	1863.5	1840.6	1825.2	1813.8	1798.5	1790.9	1790.9	1794.7
7.5°	1947.8	1936.3	1909.5	1882.6	1848.2	1821.5	1794.7	1760.1	1733.4	1721.9	1733.4
10°	1993.7	1978.3	1940.1	1898.0	1859.7	1790.9	1702.8	1595.7	1503.9	1461.8	1480.9
12.5°	2051.1	2031.9	1986.0	1928.5	1840.6	1672.2	1454.1	1205.3	1048.5	975.8	991.1
15°	2135.3	2108.4	2043.3	1955.4	1760.1	1396.7	1040.8	753.8	608.5	547.2	554.8
17.5°	2234.7	2200.3	2112.3	1947.8	1553.5	1006.4	619.9	440.1	378.8	363.5	363.5
20°	2341.9	2296.0	2181.2	1890.3	1239.8	631.4	386.4	336.7	313.8	302.3	302.3
22.5°	2452.9	2391.5	2238.5	1756.4	883.9	394.1	317.6	283.2	256.4	244.8	244.8
25°	2586.7	2506.4	2296.0	1523.0	562.4	317.6	271.7	237.2	210.5	195.1	199.0
27.5°	2743.6	2640.4	2345.7	1232.1	363.5	275.6	225.7	191.3	168.4	160.7	160.7
30°	2908.2	2785.8	2357.2	922.1	294.7	237.2	187.5	156.9	141.6	134.0	134.0
32.5°	3134.0	2973.3	2322.8	612.3	248.7	199.0	156.9	130.1	118.6	114.8	114.8
35°	3432.4	3218.1	2242.3	378.8	210.5	164.6	130.1	114.8	103.4	99.5	99.5
37.5°	3811.3	3558.7	2100.8	260.2	179.8	134.0	111.0	99.5	91.9	88.1	88.1
40°	4316.4	3972.0	1917.1	225.7	153.1	114.8	95.7	88.1	80.3	80.3	80.3
42.5°	4852.1	4473.3	1679.9	199.0	130.1	99.5	84.2	76.5	72.6	68.9	68.9
45°	5437.5	4986.0	1385.2	176.0	111.0	88.1	76.5	65.0	61.1	61.1	61.1
47.5°	6019.2	5514.1	1063.7	153.1	95.7	76.5	65.0	57.4	53.5	49.7	49.7
50°	6616.0	5992.5	780.6	134.0	84.2	68.9	57.4	49.7	42.1	38.2	38.2
52.5°	7048.6	6279.3	570.2	114.8	72.6	57.4	45.9	38.2	30.6	26.8	26.8
55°	7366.2	6455.4	417.1	95.7	65.0	49.7	38.2	30.6	23.0	23.0	19.1
57.5°	7614.9	6539.6	313.8	84.2	57.4	42.1	30.6	23.0	19.1	15.3	15.3
60°	7806.1	6543.4	233.4	68.9	49.7	34.4	23.0	15.3	11.5	11.5	11.5
62°	8058.8	6593.1	191.3	57.4	45.9	30.6	19.1	11.5	7.6	3.9	3.9
62.5°	8131.4	6612.3	183.7	57.4	42.1	26.8	15.3	11.5	7.6	3.9	3.9
65°	8468.1	6646.8	141.6	45.9	34.4	23.0	11.5	7.6	0.0	0.0	0.0
67.5°	8774.3	6593.1	103.4	34.4	26.8	15.3	11.5	3.9	0.0	0.0	0.0
70°	8743.7	6225.8	72.6	23.0	19.1	11.5	7.6	0.0	0.0	0.0	0.0
72.5°	7205.4	4660.8	49.7	19.1	11.5	7.6	3.9	0.0	0.0	0.0	0.0
75°	4350.8	2039.6	34.4	11.5	11.5	7.6	3.9	0.0	0.0	0.0	0.0
77.5°	1427.3	738.5	23.0	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0
80°	233.4	122.5	11.5	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0
82.5°	72.6	30.6	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0
85°	26.8	11.5	7.6	7.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	7.6	7.6	7.6	3.9	3.9	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)