

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: P399567

Luminaire Tested: **ARCH-L-PA3-160-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16363 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

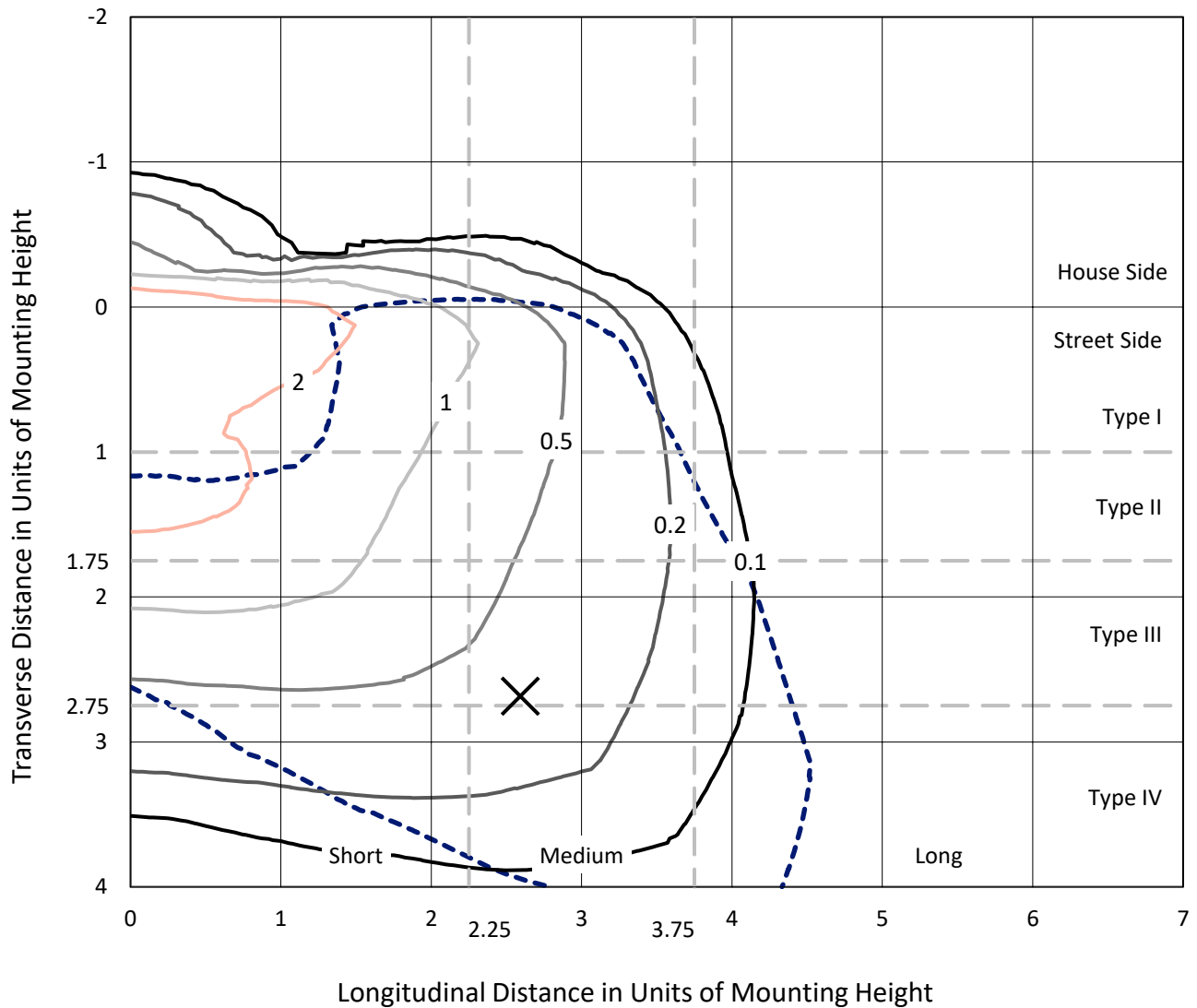
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

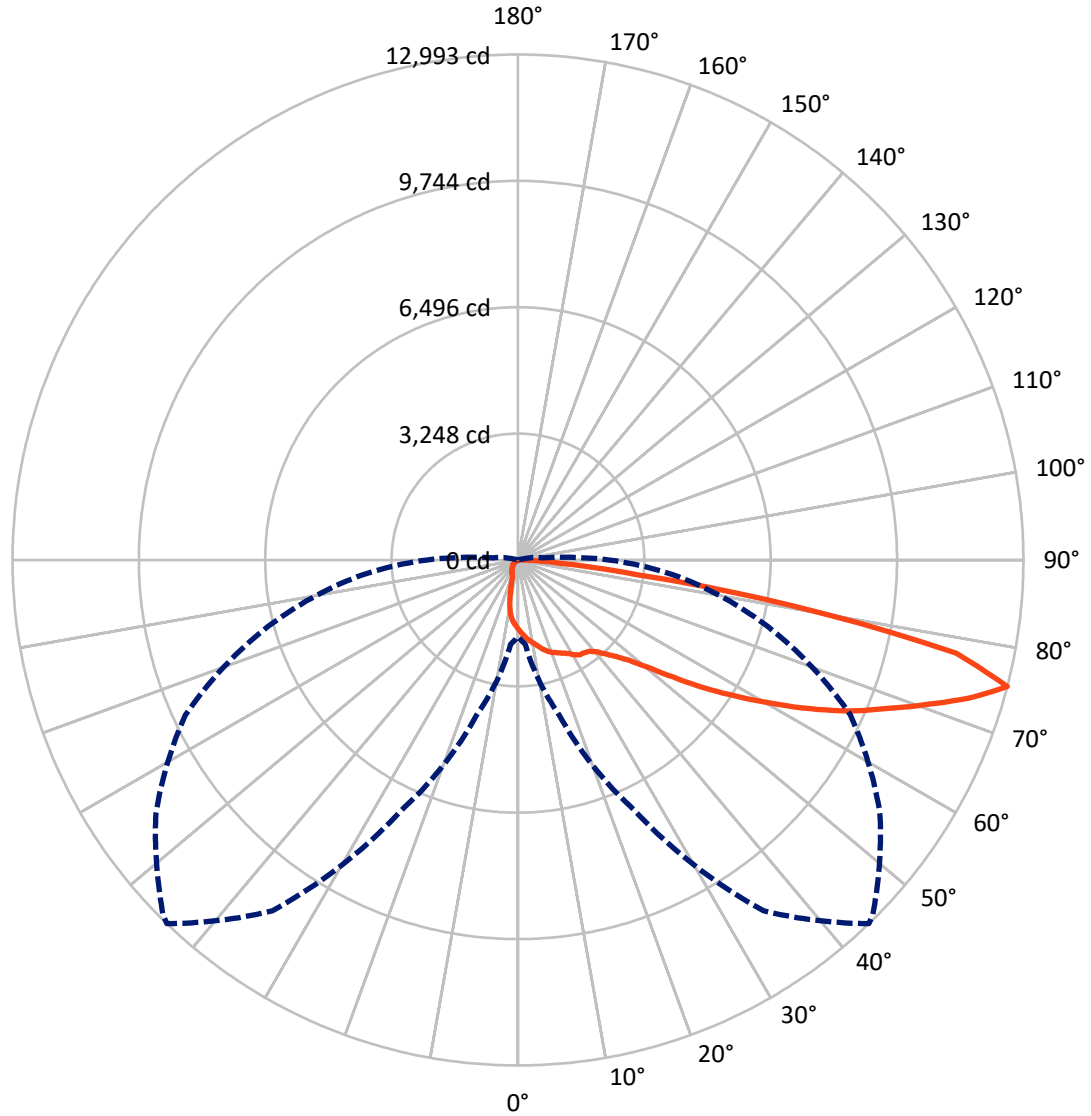
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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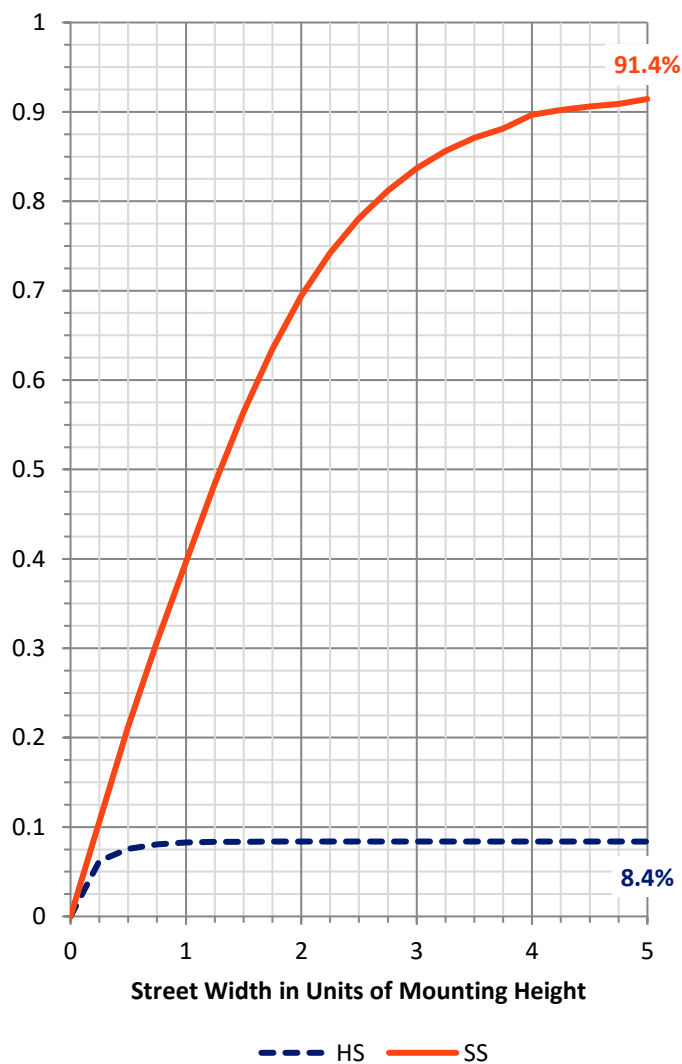
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.9	0.0	1379.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14983.1	0.0	14983.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	16363.0	0.0	16363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.0
10°-20°	470.7	2.9
20°-30°	776.7	4.7
30°-40°	1127.3	6.9
40°-50°	1832.6	11.2
50°-60°	3230.6	19.7
60°-70°	4643.0	28.4
70°-80°	3718.0	22.7
80°-90°	396.1	2.4
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°	16363.0	100.0
0°-180°	16363.0	100.0

Coefficient of Utilization



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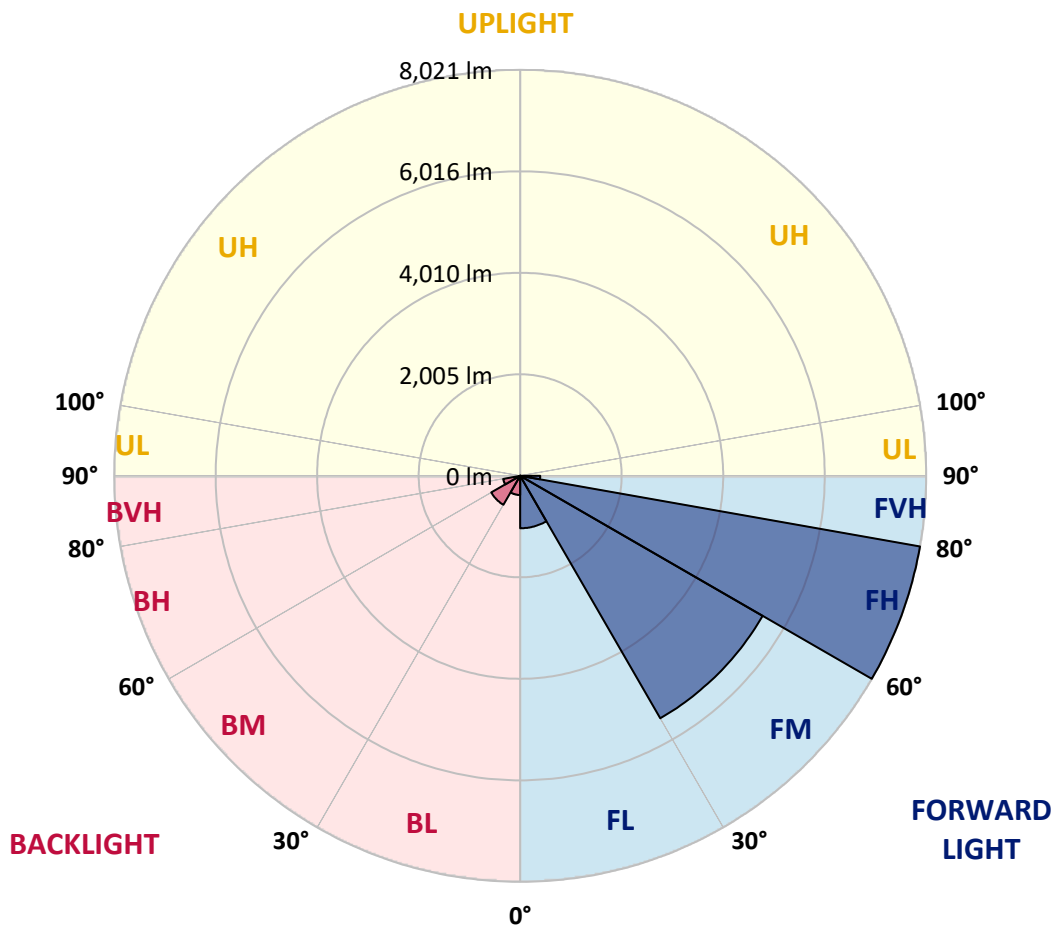
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.2	6.3			
FM (30°-60°)	5530.8	33.8			
FH (60°-80°)	8020.9	49.0			G4/12000
FVH (80°-90°)	395.1	2.4			G3/500
BL (0°-30°)	379.1	2.3	B1/500		
BM (30°-60°)	659.6	4.0	B1/1000		
BH (60°-80°)	340.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1941.0	1938.0	1929.0	1913.9	1898.8	1883.7	1880.7	1856.5	1829.4	1808.2	1790.1
5°	2113.1	2110.1	2095.0	2061.8	2028.6	1989.3	1986.3	1929.0	1877.6	1820.3	1772.0
7.5°	2291.2	2285.2	2258.0	2206.7	2149.3	2089.0	2082.9	1998.4	1922.9	1847.5	1778.0
10°	2430.1	2424.0	2384.8	2324.4	2245.9	2170.5	2161.4	2073.9	1998.4	1901.8	1808.2
12.5°	2565.9	2553.8	2502.5	2436.1	2339.5	2267.1	2258.0	2167.4	2076.9	1977.3	1862.6
15°	2692.7	2677.6	2629.3	2544.8	2442.2	2372.7	2366.7	2270.1	2176.5	2061.8	1935.0
17.5°	2780.3	2774.2	2716.9	2623.3	2523.7	2466.3	2460.3	2360.6	2267.1	2146.3	2010.5
20°	2825.5	2825.5	2771.2	2668.6	2578.0	2538.8	2529.7	2436.1	2345.6	2230.8	2089.0
22.5°	2834.6	2843.6	2801.4	2689.7	2623.3	2590.1	2584.0	2502.5	2415.0	2309.3	2176.5
25°	2852.7	2852.7	2831.6	2710.8	2662.5	2653.5	2650.4	2578.0	2499.5	2393.9	2264.0
27.5°	2873.8	2873.8	2858.7	2741.0	2722.9	2719.9	2716.9	2683.7	2620.3	2496.5	2366.7
30°	2928.2	2931.2	2919.1	2801.4	2789.3	2822.5	2828.5	2810.4	2732.0	2578.0	2472.3
32.5°	3064.0	3036.8	3003.6	2843.6	2864.8	2907.0	2910.1	2873.8	2789.3	2665.5	2599.1
35°	3405.1	3245.1	3094.2	2879.9	2888.9	2931.2	2937.2	2934.2	2882.9	2777.2	2744.0
37.5°	3722.1	3495.7	3281.4	2964.4	2934.2	2979.5	2991.6	3042.9	3003.6	2931.2	2940.2
40°	3906.2	3818.7	3667.8	3196.8	3024.8	3094.2	3106.3	3184.8	3169.7	3139.5	3196.8
42.5°	4473.8	4479.8	4316.8	3544.0	3190.8	3302.5	3317.6	3381.0	3402.1	3417.2	3556.1
45°	5131.8	5153.0	5113.7	4168.9	3504.7	3541.0	3562.1	3646.6	3725.1	3821.7	4075.3
47.5°	5922.7	5904.6	5759.7	4932.6	4051.1	3848.9	3864.0	4027.0	4162.8	4374.1	4736.4
50°	6623.1	6668.4	6393.7	5645.0	4820.9	4334.9	4319.8	4479.8	4724.3	5020.1	5476.0
52.5°	7329.5	7263.1	6891.8	6351.4	5732.6	4996.0	4950.7	5038.3	5382.4	5732.6	6200.5
55°	7516.6	7522.7	7395.9	7124.2	6493.3	5799.0	5723.5	5717.5	6146.1	6384.6	6961.2
57.5°	7884.9	7900.0	7930.2	7984.5	7685.7	6602.0	6523.5	6439.0	6855.5	6994.4	7724.9
60°	8259.2	8277.4	8461.5	8754.3	8555.1	7468.3	7383.8	7184.6	7417.0	7604.2	8527.9
62.5°	8210.9	8337.7	8872.0	9454.7	9430.5	8419.2	8313.6	7833.6	7981.5	8144.5	9264.5
65°	7414.0	7549.8	8751.3	9647.9	10309.0	9358.1	9186.0	8503.8	8512.8	8709.0	9973.9
67.5°	6701.6	6849.5	7996.6	9566.4	10888.6	10200.3	10022.2	9176.9	9035.1	9361.1	10354.2
70°	6291.0	6439.0	7395.9	9312.8	11051.6	11133.1	10979.1	9946.7	9656.9	9955.8	9928.6
72.5°	4923.5	5156.0	6629.1	8829.8	11226.7	12132.3	12011.5	10921.8	10185.2	9333.9	7558.9
75°	1962.2	2176.5	4138.7	7106.1	11006.3	12992.6	12899.0	11359.5	9427.5	6665.4	3870.0
77.5°	591.7	633.9	1150.1	3513.8	8069.1	11519.5	11489.3	9551.3	6671.4	3094.2	1056.6
80°	196.2	217.3	353.2	969.0	3682.9	7196.7	7332.5	6085.8	3030.8	709.4	214.3
82.5°	81.5	90.6	178.1	389.4	1304.1	3100.2	3055.0	2725.9	1056.6	440.7	78.5
85°	21.1	27.2	81.5	223.4	477.0	1068.6	1123.0	914.7	597.7	365.3	24.1
87.5°	0.0	0.0	39.2	90.6	214.3	323.0	338.1	277.7	338.1	274.7	12.1
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°	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1	1781.1
2.5°	1775.0	1759.9	1732.8	1714.6	1690.5	1684.5	1672.4	1657.3	1654.3	1639.2	1642.2
5°	1744.8	1720.7	1672.4	1639.2	1599.9	1587.9	1566.7	1551.6	1539.6	1518.4	1521.4
7.5°	1738.8	1702.6	1636.2	1572.8	1509.4	1464.1	1400.7	1349.4	1307.1	1261.8	1270.9
10°	1759.9	1714.6	1621.1	1533.5	1418.8	1273.9	1107.9	999.2	944.9	890.5	896.6
12.5°	1802.2	1747.8	1627.1	1494.3	1261.8	1014.3	784.9	637.0	597.7	573.6	576.6
15°	1865.6	1799.2	1645.2	1418.8	1050.5	733.6	522.2	458.8	473.9	483.0	483.0
17.5°	1932.0	1856.5	1660.3	1283.0	812.0	513.2	425.6	419.6	440.7	461.9	461.9
20°	2013.5	1916.9	1663.3	1110.9	585.6	416.6	401.5	401.5	416.6	440.7	440.7
22.5°	2092.0	1983.3	1636.2	914.7	446.8	386.4	386.4	386.4	395.5	419.6	422.6
25°	2185.6	2064.8	1578.8	706.4	383.4	368.3	368.3	371.3	377.3	398.5	401.5
27.5°	2285.2	2149.3	1482.2	516.2	350.2	347.2	350.2	353.2	356.2	377.3	383.4
30°	2399.9	2242.9	1358.4	386.4	320.0	320.0	329.0	335.1	335.1	353.2	359.2
32.5°	2532.7	2366.7	1210.5	320.0	289.8	286.8	301.9	310.9	310.9	326.0	332.1
35°	2698.7	2493.5	1032.4	283.8	265.6	259.6	265.6	280.7	286.8	298.9	301.9
37.5°	2919.1	2644.4	842.2	262.6	247.5	235.5	235.5	238.5	250.6	262.6	265.6
40°	3199.9	2810.4	655.1	247.5	229.4	217.3	208.3	205.3	202.3	211.3	217.3
42.5°	3553.0	2997.6	489.0	232.4	214.3	196.2	184.1	172.1	157.0	154.0	157.0
45°	4005.9	3227.0	362.2	220.4	205.3	178.1	157.0	135.8	108.7	99.6	102.6
47.5°	4540.2	3465.5	283.8	208.3	199.2	157.0	129.8	93.6	66.4	60.4	63.4
50°	5107.7	3694.9	241.5	193.2	187.2	135.8	93.6	57.4	39.2	39.2	42.3
52.5°	5590.7	3824.7	220.4	181.1	169.0	111.7	60.4	33.2	24.1	24.1	27.2
55°	6058.6	3894.2	205.3	169.0	144.9	78.5	33.2	21.1	15.1	15.1	15.1
57.5°	6541.6	3924.3	187.2	154.0	114.7	48.3	18.1	12.1	9.1	9.1	9.1
60°	6970.2	3867.0	160.0	126.8	75.5	24.1	9.1	9.1	6.0	3.0	3.0
62.5°	7329.5	3758.3	111.7	90.6	45.3	12.1	6.0	3.0	0.0	0.0	0.0
65°	7549.8	3583.2	72.4	60.4	27.2	9.1	3.0	0.0	0.0	0.0	0.0
67.5°	7486.4	3254.2	45.3	39.2	12.1	6.0	3.0	0.0	0.0	0.0	0.0
70°	6755.9	2668.6	33.2	24.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	4869.2	1805.2	24.1	15.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2342.5	643.0	15.1	12.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	573.6	141.9	9.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.8	27.2	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.3	12.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.0	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)