

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: P399675

Luminaire Tested: **ARCH-L-PA3-170-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399675
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-PA3-170-827-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 750mA 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: 13842 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

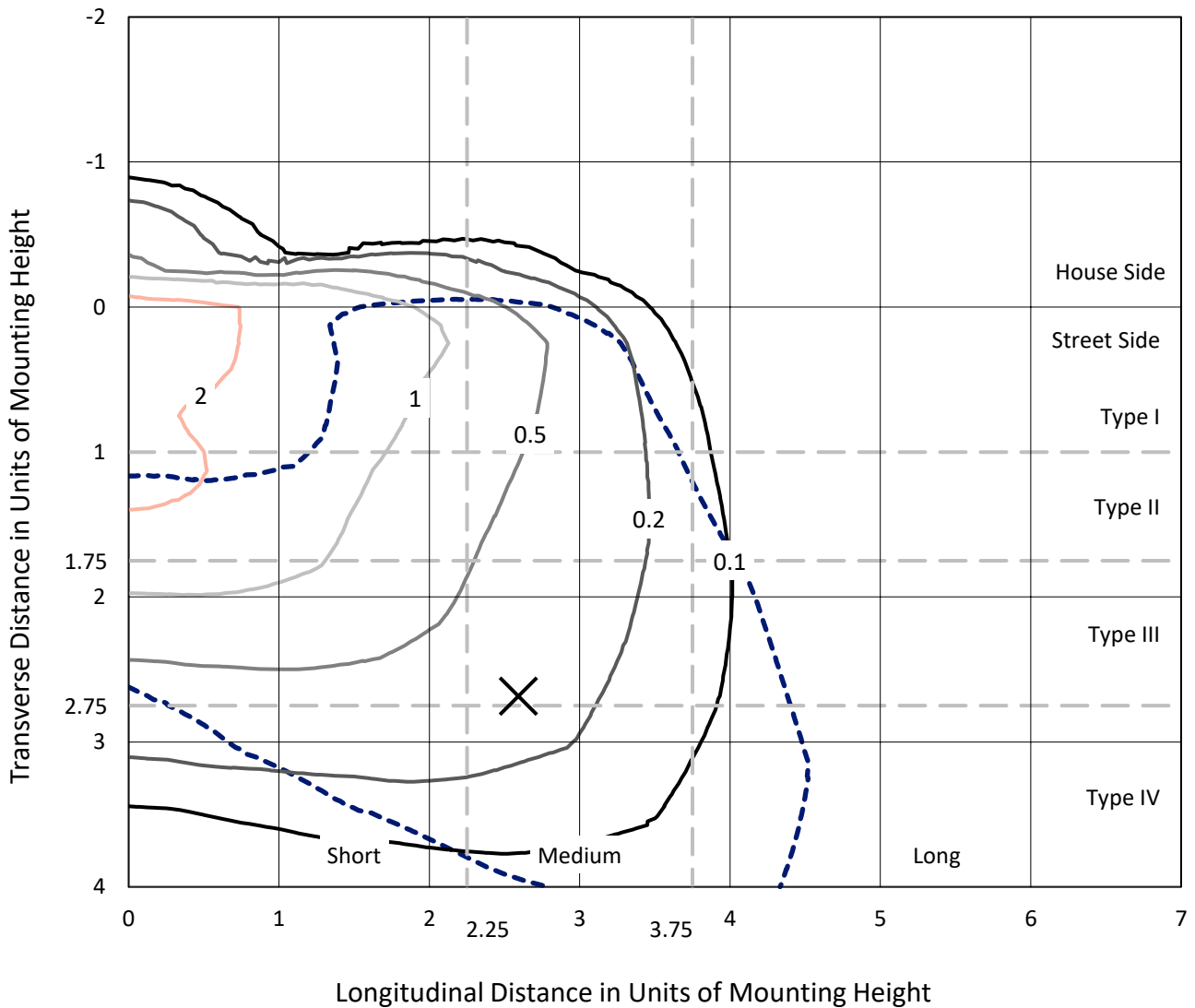
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

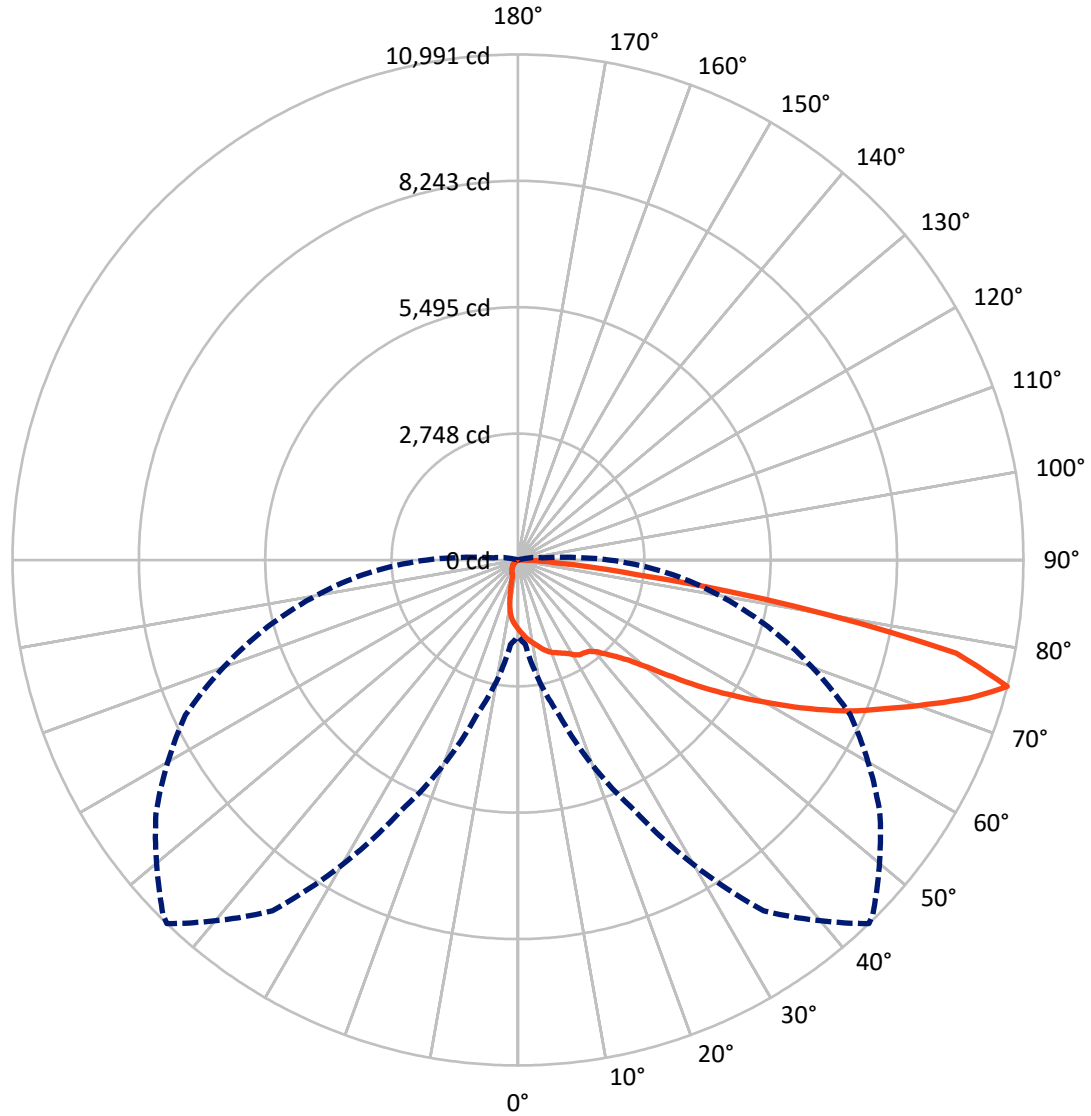
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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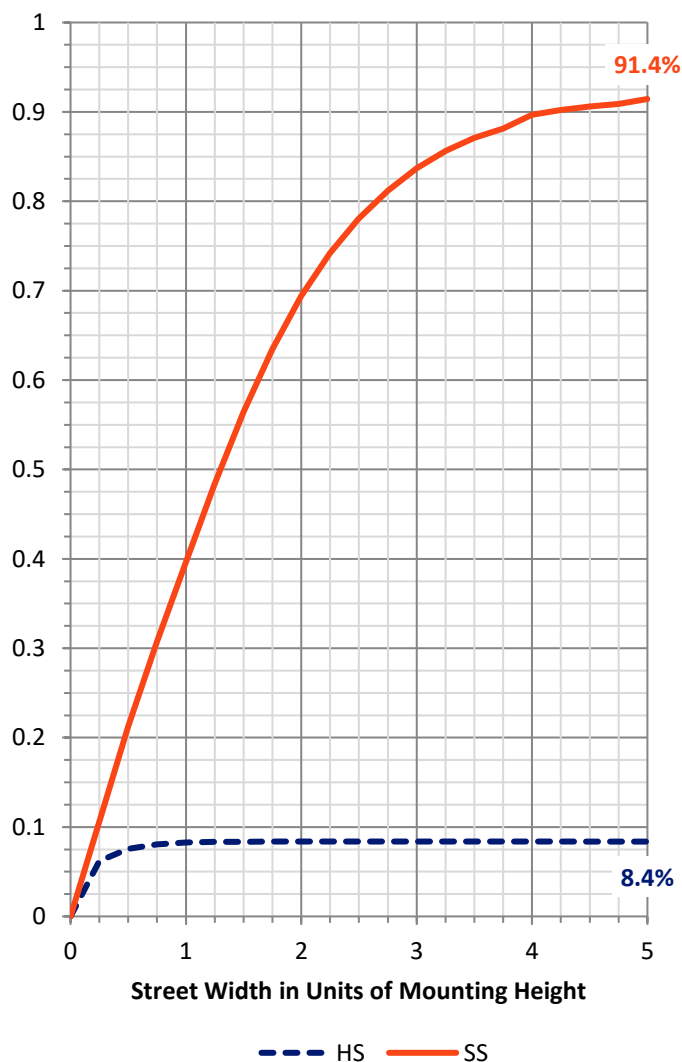
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.3	0.0	1167.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12674.7	0.0	12674.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	13842.0	0.0	13842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	1.0
10°-20°	398.1	2.9
20°-30°	657.1	4.7
30°-40°	953.6	6.9
40°-50°	1550.2	11.2
50°-60°	2732.9	19.7
60°-70°	3927.7	28.4
70°-80°	3145.2	22.7
80°-90°	335.1	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°	13842.0	100.0
0°-180°	13842.0	100.0

Coefficient of Utilization

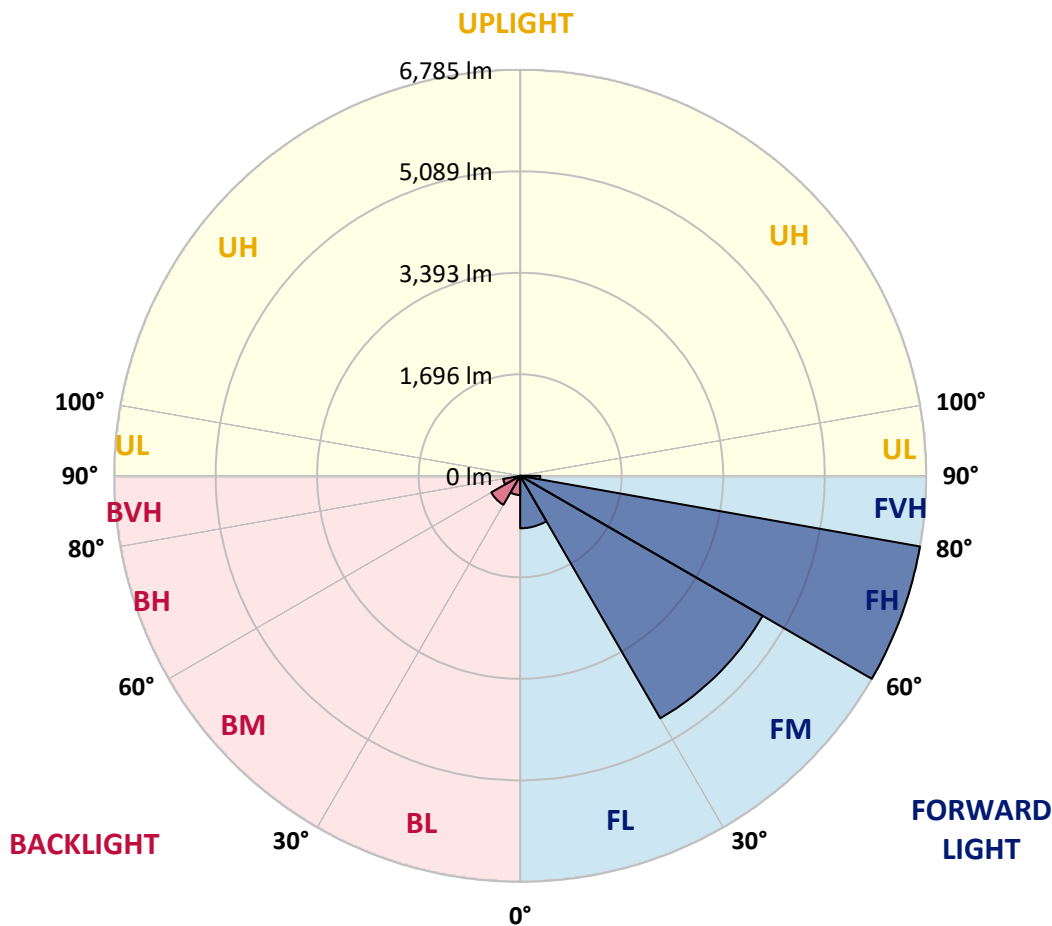


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.6	6.3			
FM (30°-60°)	4678.7	33.8			
FH (60°-80°)	6785.1	49.0			G3/7500
FVH (80°-90°)	334.3	2.4			G3/500
BL (0°-30°)	320.7	2.3	B1/500		
BM (30°-60°)	558.0	4.0	B1/1000		
BH (60°-80°)	287.8	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1642.0	1639.4	1631.8	1619.0	1606.2	1593.5	1590.9	1570.5	1547.5	1529.6	1514.3
5°	1787.5	1785.0	1772.2	1744.1	1716.0	1682.9	1680.3	1631.8	1588.4	1539.8	1499.0
7.5°	1938.2	1933.1	1910.1	1866.7	1818.2	1767.1	1762.0	1690.5	1626.7	1562.8	1504.1
10°	2055.7	2050.6	2017.4	1966.3	1899.9	1836.1	1828.4	1754.4	1690.5	1608.8	1529.6
12.5°	2170.6	2160.4	2117.0	2060.8	1979.1	1917.8	1910.1	1833.5	1756.9	1672.6	1575.6
15°	2277.8	2265.1	2224.2	2152.7	2065.9	2007.2	2002.1	1920.3	1841.2	1744.1	1636.9
17.5°	2351.9	2346.8	2298.3	2219.1	2134.8	2086.3	2081.2	1996.9	1917.8	1815.6	1700.7
20°	2390.2	2390.2	2344.2	2257.4	2180.8	2147.6	2140.0	2060.8	1984.2	1887.1	1767.1
22.5°	2397.9	2405.5	2369.8	2275.3	2219.1	2191.0	2185.9	2117.0	2042.9	1953.5	1841.2
25°	2413.2	2413.2	2395.3	2293.2	2252.3	2244.7	2242.1	2180.8	2114.4	2025.0	1915.2
27.5°	2431.1	2431.1	2418.3	2318.7	2303.4	2300.8	2298.3	2270.2	2216.6	2111.9	2002.1
30°	2477.0	2479.6	2469.4	2369.8	2359.6	2387.7	2392.8	2377.4	2311.0	2180.8	2091.4
32.5°	2591.9	2569.0	2540.9	2405.5	2423.4	2459.2	2461.7	2431.1	2359.6	2254.9	2198.7
35°	2880.5	2745.2	2617.5	2436.2	2443.8	2479.6	2484.7	2482.1	2438.7	2349.4	2321.3
37.5°	3148.6	2957.1	2775.8	2507.7	2482.1	2520.4	2530.7	2574.1	2540.9	2479.6	2487.2
40°	3304.4	3230.4	3102.7	2704.3	2558.8	2617.5	2627.7	2694.1	2681.3	2655.8	2704.3
42.5°	3784.5	3789.6	3651.7	2998.0	2699.2	2793.7	2806.5	2860.1	2878.0	2890.7	3008.2
45°	4341.2	4359.1	4325.9	3526.6	2964.8	2995.4	3013.3	3084.8	3151.2	3232.9	3447.4
47.5°	5010.2	4994.9	4872.4	4172.7	3427.0	3255.9	3268.7	3406.6	3521.5	3700.2	4006.7
50°	5602.7	5641.0	5408.6	4775.3	4078.2	3667.0	3654.3	3789.6	3996.5	4246.7	4632.3
52.5°	6200.2	6144.1	5830.0	5372.9	4849.4	4226.3	4188.0	4262.0	4553.1	4849.4	5245.2
55°	6358.6	6363.7	6256.4	6026.6	5492.9	4905.5	4841.7	4836.6	5199.2	5401.0	5888.7
57.5°	6670.1	6682.9	6708.4	6754.4	6501.6	5584.8	5518.4	5446.9	5799.3	5916.8	6534.8
60°	6986.8	7002.1	7157.9	7405.6	7237.0	6317.7	6246.2	6077.7	6274.3	6432.6	7214.0
62.5°	6945.9	7053.2	7505.2	7998.0	7977.6	7122.1	7032.7	6626.7	6751.8	6889.7	7837.1
65°	6271.7	6386.7	7403.0	8161.4	8720.7	7916.3	7770.7	7193.6	7201.3	7367.3	8437.2
67.5°	5669.1	5794.2	6764.6	8092.5	9211.0	8628.8	8478.1	7763.1	7643.1	7918.8	8759.0
70°	5321.8	5446.9	6256.4	7878.0	9348.9	9417.8	9287.6	8414.3	8169.1	8421.9	8398.9
72.5°	4165.0	4361.6	5607.8	7469.4	9497.0	10263.1	10160.9	9239.1	8616.0	7895.9	6394.3
75°	1659.9	1841.2	3501.0	6011.3	9310.6	10990.9	10911.7	9609.4	7975.0	5638.4	3273.8
77.5°	500.5	536.3	972.9	2972.4	6825.9	9744.7	9719.2	8079.7	5643.6	2617.5	893.8
80°	166.0	183.9	298.8	819.7	3115.4	6087.9	6202.8	5148.1	2563.9	600.1	181.3
82.5°	68.9	76.6	150.7	329.4	1103.2	2622.6	2584.3	2305.9	893.8	372.8	66.4
85°	17.9	23.0	68.9	189.0	403.5	904.0	950.0	773.8	505.6	309.0	20.4
87.5°	0.0	0.0	33.2	76.6	181.3	273.2	286.0	234.9	286.0	232.4	10.2
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°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1501.5	1488.8	1465.8	1450.5	1430.0	1424.9	1414.7	1401.9	1399.4	1386.6	1389.2
5°	1476.0	1455.6	1414.7	1386.6	1353.4	1343.2	1325.3	1312.6	1302.4	1284.5	1287.0
7.5°	1470.9	1440.3	1384.1	1330.4	1276.8	1238.5	1184.9	1141.5	1105.7	1067.4	1075.1
10°	1488.8	1450.5	1371.3	1297.3	1200.2	1077.6	937.2	845.3	799.3	753.3	758.4
12.5°	1524.5	1478.6	1376.4	1264.1	1067.4	858.0	663.9	538.8	505.6	485.2	487.7
15°	1578.2	1522.0	1391.7	1200.2	888.7	620.5	441.8	388.2	400.9	408.6	408.6
17.5°	1634.3	1570.5	1404.5	1085.3	686.9	434.1	360.1	355.0	372.8	390.7	390.7
20°	1703.3	1621.6	1407.1	939.7	495.4	352.4	339.6	339.6	352.4	372.8	372.8
22.5°	1769.7	1677.7	1384.1	773.8	377.9	326.9	326.9	326.9	334.5	355.0	357.5
25°	1848.8	1746.7	1335.6	597.6	324.3	311.5	311.5	314.1	319.2	337.1	339.6
27.5°	1933.1	1818.2	1253.8	436.7	296.2	293.7	296.2	298.8	301.3	319.2	324.3
30°	2030.1	1897.4	1149.1	326.9	270.7	270.7	278.3	283.5	283.5	298.8	303.9
32.5°	2142.5	2002.1	1024.0	270.7	245.1	242.6	255.4	263.0	263.0	275.8	280.9
35°	2283.0	2109.3	873.3	240.0	224.7	219.6	224.7	237.5	242.6	252.8	255.4
37.5°	2469.4	2237.0	712.5	222.2	209.4	199.2	199.2	201.7	212.0	222.2	224.7
40°	2706.9	2377.4	554.1	209.4	194.1	183.9	176.2	173.6	171.1	178.8	183.9
42.5°	3005.6	2535.8	413.7	196.6	181.3	166.0	155.8	145.6	132.8	130.2	132.8
45°	3388.7	2729.8	306.4	186.4	173.6	150.7	132.8	114.9	91.9	84.3	86.8
47.5°	3840.7	2931.6	240.0	176.2	168.5	132.8	109.8	79.2	56.2	51.1	53.6
50°	4320.8	3125.7	204.3	163.4	158.3	114.9	79.2	48.5	33.2	33.2	35.8
52.5°	4729.3	3235.5	186.4	153.2	143.0	94.5	51.1	28.1	20.4	20.4	23.0
55°	5125.2	3294.2	173.6	143.0	122.6	66.4	28.1	17.9	12.8	12.8	12.8
57.5°	5533.7	3319.7	158.3	130.2	97.0	40.9	15.3	10.2	7.7	7.7	7.7
60°	5896.4	3271.2	135.3	107.3	63.8	20.4	7.7	7.7	5.1	2.6	2.6
62.5°	6200.2	3179.3	94.5	76.6	38.3	10.2	5.1	2.6	0.0	0.0	0.0
65°	6386.7	3031.2	61.3	51.1	23.0	7.7	2.6	0.0	0.0	0.0	0.0
67.5°	6333.0	2752.8	38.3	33.2	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5715.1	2257.4	28.1	20.4	7.7	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4119.0	1527.1	20.4	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1981.6	543.9	12.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	485.2	120.0	7.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.3	23.0	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.6	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)