

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: P399493

Luminaire Tested: **ARCH-L-PA3-150-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399493
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-PA3-150-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA 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: 15834 lumens
Efficiency: N/A
Efficacy: 103.5 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

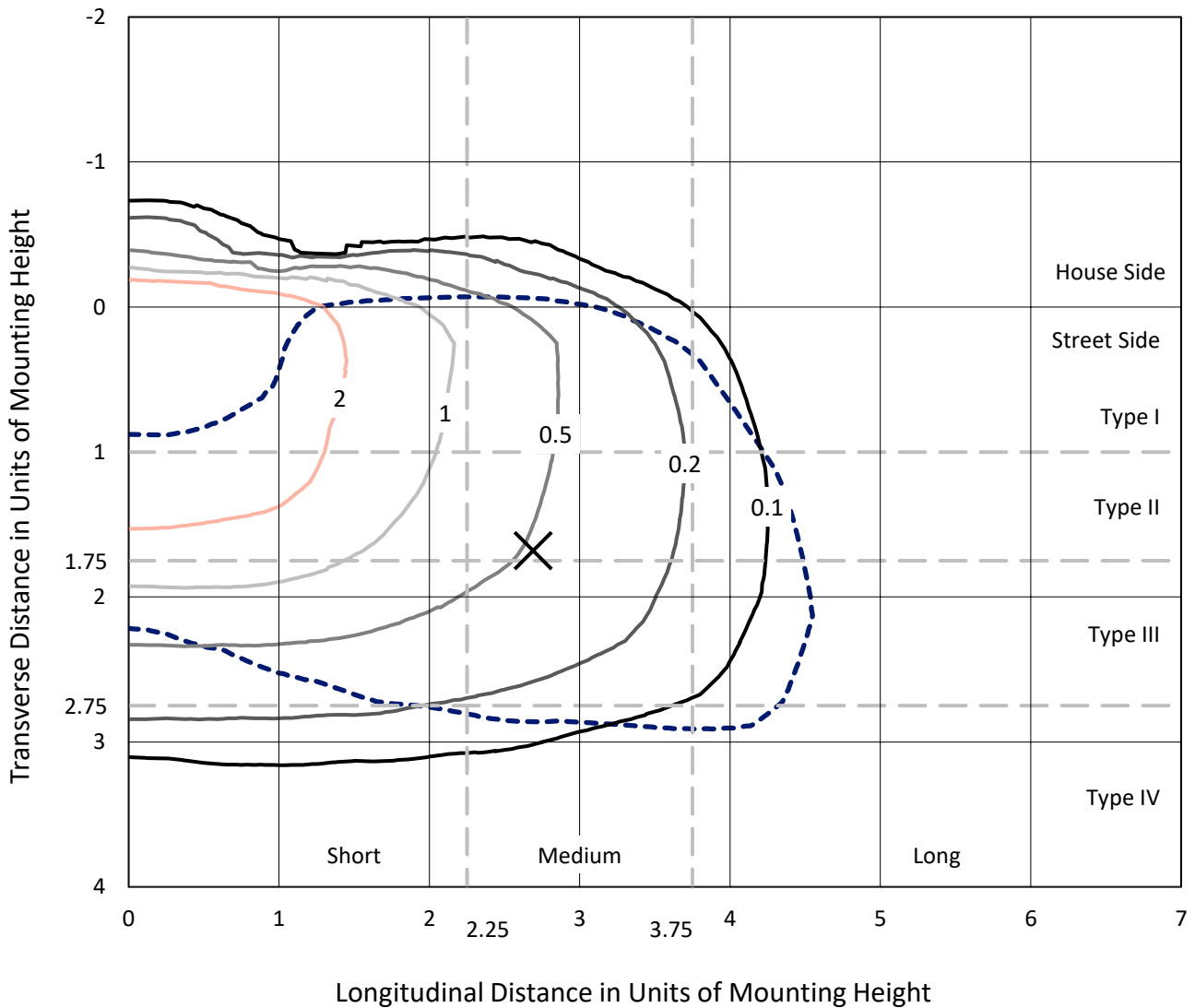
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

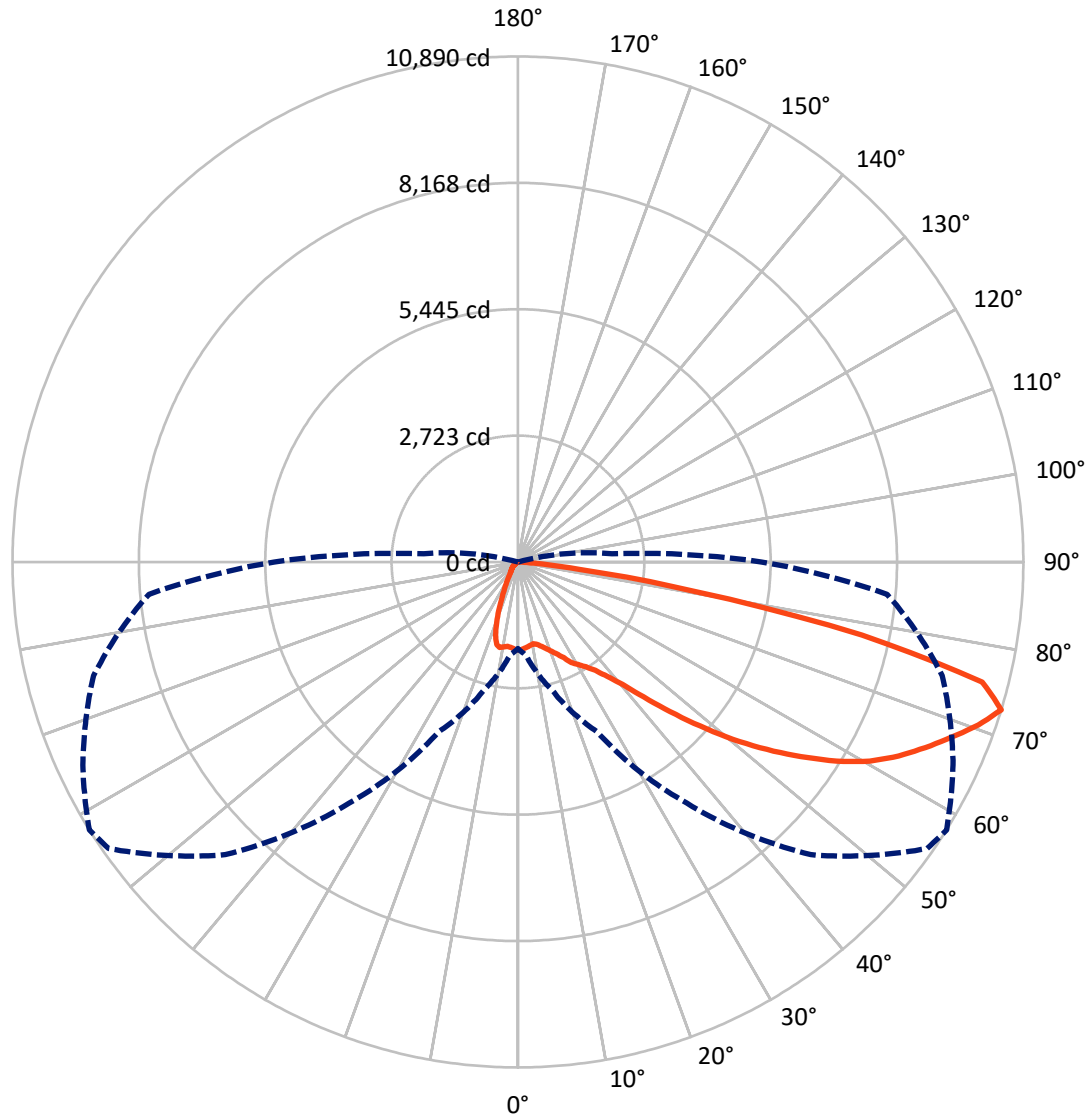
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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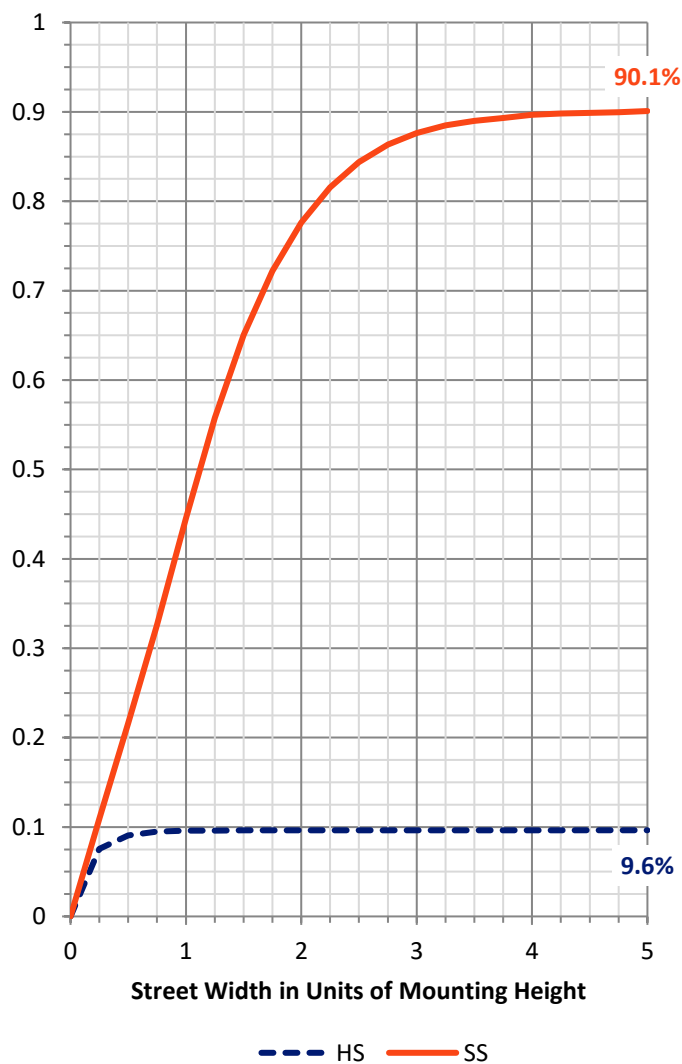
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.7	0.0	1539.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	14294.3	0.0	14294.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	15834.0	0.0	15834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.1
10°-20°	454.2	2.9
20°-30°	713.5	4.5
30°-40°	1230.4	7.8
40°-50°	2341.0	14.8
50°-60°	3707.3	23.4
60°-70°	4326.0	27.3
70°-80°	2709.4	17.1
80°-90°	177.8	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°	15834.0	100.0
0°-180°	15834.0	100.0

Coefficient of Utilization

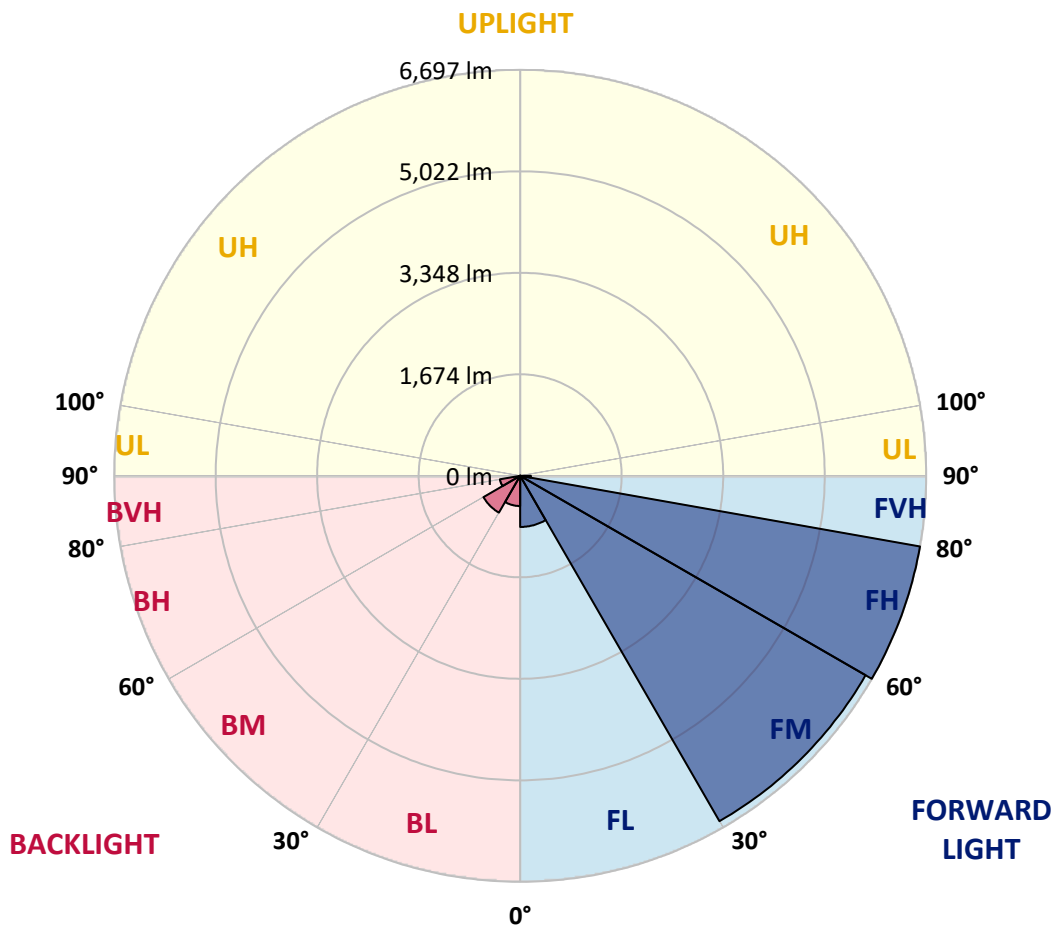


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.4	5.3			
FM (30°-60°)	6578.1	41.5			
FH (60°-80°)	6696.6	42.3			G3/7500
FVH (80°-90°)	176.1	1.1			G2/225
BL (0°-30°)	498.6	3.1	B1/500		
BM (30°-60°)	700.6	4.4	B1/1000		
BH (60°-80°)	338.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	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°	45°	55°	58°	65°	75°	85°
0°	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0
2.5°	1891.5	1883.0	1880.2	1877.3	1880.2	1883.0	1874.5	1883.0	1877.3	1880.2	1885.8
5°	1823.5	1815.0	1812.2	1815.0	1823.5	1837.7	1843.4	1851.8	1851.8	1860.3	1863.2
7.5°	1747.1	1741.4	1738.6	1744.2	1761.2	1792.4	1809.4	1820.7	1832.0	1849.0	1866.0
10°	1704.6	1701.8	1698.9	1707.4	1724.4	1752.7	1775.4	1792.4	1834.9	1883.0	1914.1
12.5°	1676.3	1676.3	1682.0	1698.9	1721.6	1744.2	1798.0	1820.7	1885.8	1959.4	2001.9
15°	1653.6	1653.6	1662.1	1693.3	1724.4	1778.2	1857.5	1883.0	1959.4	2050.1	2106.7
17.5°	1636.6	1642.3	1648.0	1679.1	1738.6	1829.2	1922.6	1959.4	2052.9	2152.0	2214.3
20°	1639.5	1645.1	1648.0	1679.1	1764.1	1888.7	2007.6	2050.1	2157.7	2262.4	2324.7
22.5°	1656.5	1665.0	1667.8	1710.3	1809.4	1951.0	2103.9	2152.0	2268.1	2378.5	2426.7
25°	1727.3	1732.9	1715.9	1752.7	1874.5	2047.2	2228.4	2279.4	2395.5	2497.4	2537.1
27.5°	1967.9	1973.6	1880.2	1837.7	1925.5	2126.5	2381.4	2452.1	2596.5	2664.5	2670.2
30°	2489.0	2494.6	2310.6	2109.5	2047.2	2194.5	2466.3	2565.4	2752.3	2828.7	2794.8
32.5°	3160.0	3154.4	2902.4	2605.0	2336.0	2313.4	2588.1	2692.8	2896.7	2970.3	2944.8
35°	3833.9	3842.4	3627.2	3179.9	2794.8	2537.1	2743.8	2865.5	3111.9	3216.7	3171.4
37.5°	4295.5	4352.1	4258.7	3774.5	3358.2	2950.5	2995.8	3126.1	3434.7	3576.3	3480.0
40°	4946.8	4932.6	4706.1	4349.3	3981.2	3562.1	3403.5	3465.8	3819.8	4009.5	3859.4
42.5°	5821.7	5793.4	5408.3	5060.0	4649.4	4306.8	3984.0	3972.7	4261.5	4482.4	4264.3
45°	6614.5	6572.1	6308.7	5971.8	5521.6	5128.0	4691.9	4592.8	4793.8	4980.7	4725.9
47.5°	7246.0	7175.2	6988.3	6809.9	6699.5	6087.9	5433.8	5283.7	5385.6	5524.4	5164.8
50°	7993.5	7798.1	7526.3	7418.7	7648.1	7175.2	6147.3	6002.9	5997.3	6076.5	5617.8
52.5°	8333.3	7979.4	7826.5	7917.1	8322.0	8186.1	6917.5	6710.8	6628.7	6637.2	6039.7
55°	7922.7	7883.1	7965.2	8248.4	8777.9	8698.6	7656.6	7401.7	7280.0	7127.1	6444.7
57.5°	7455.5	7577.3	7902.9	8443.7	9355.5	9233.7	8384.3	8095.5	7871.8	7520.7	6894.9
60°	7025.1	7149.7	7687.7	8489.0	9672.6	9749.1	8990.2	8715.6	8384.3	7922.7	7390.4
62.5°	6371.0	6467.3	7223.3	8423.9	9533.9	10049.2	9412.1	9205.4	8896.8	8305.0	7959.5
65°	5634.8	5697.1	6444.7	7902.9	9262.1	10015.3	9760.4	9644.3	9344.2	8704.2	8523.0
67.5°	4827.8	4901.4	5524.4	6965.7	8729.7	9856.7	10088.9	10077.6	9734.9	9146.0	8930.8
70°	3899.1	3904.7	4420.1	5776.4	7801.0	9539.6	10496.6	10522.1	10108.7	9477.3	8947.8
72.5°	1866.0	2018.9	2865.5	4032.2	6339.9	8916.6	10762.8	10890.2	10343.7	9465.9	7982.2
75°	427.6	441.7	835.3	1917.0	3717.9	6843.9	10097.4	10335.2	9771.7	8186.1	5623.5
77.5°	155.7	164.2	235.0	560.7	1429.9	3536.6	7226.2	7574.4	7223.3	5292.2	2658.8
80°	104.8	101.9	121.8	249.2	656.9	1002.4	3695.2	3901.9	3562.1	1806.5	637.1
82.5°	53.8	56.6	84.9	138.7	441.7	348.3	1234.6	1342.2	1104.3	362.4	118.9
85°	25.5	25.5	48.1	87.8	186.9	121.8	274.7	331.3	297.3	158.6	39.6
87.5°	25.5	25.5	45.3	56.6	96.3	51.0	68.0	84.9	79.3	84.9	14.2
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°	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0	1900.0
2.5°	1885.8	1883.0	1880.2	1885.8	1883.0	1888.7	1888.7	1894.3	1894.3	1888.7	1885.8
5°	1860.3	1854.7	1849.0	1849.0	1846.2	1851.8	1868.8	1883.0	1885.8	1877.3	1874.5
7.5°	1863.2	1863.2	1857.5	1846.2	1826.4	1826.4	1826.4	1843.4	1851.8	1846.2	1843.4
10°	1914.1	1917.0	1902.8	1877.3	1843.4	1812.2	1752.7	1665.0	1582.8	1560.2	1551.7
12.5°	2001.9	2004.8	1976.4	1931.1	1860.3	1676.3	1449.8	1240.2	1078.8	1033.5	1025.0
15°	2106.7	2109.5	2058.6	1984.9	1769.7	1342.2	1005.2	767.4	625.8	591.8	589.0
17.5°	2214.3	2208.6	2132.2	1990.6	1500.7	951.4	611.6	489.9	453.1	444.6	447.4
20°	2319.1	2302.1	2197.3	1885.8	1155.3	622.9	447.4	419.1	410.6	404.9	404.9
22.5°	2415.3	2381.4	2251.1	1679.1	809.8	447.4	399.3	393.6	382.3	373.8	370.9
25°	2511.6	2463.5	2285.1	1410.1	543.7	390.8	376.6	365.3	351.1	339.8	337.0
27.5°	2627.7	2559.7	2268.1	1070.3	407.7	362.4	351.1	334.1	314.3	297.3	291.7
30°	2738.1	2661.7	2171.8	739.0	348.3	334.1	317.1	291.7	266.2	246.3	240.7
32.5°	2876.9	2789.1	1999.1	484.2	303.0	291.7	274.7	243.5	209.5	186.9	181.2
35°	3075.1	2976.0	1778.2	339.8	266.2	246.3	223.7	189.7	152.9	135.9	133.1
37.5°	3352.6	3219.5	1500.7	274.7	235.0	206.7	172.7	138.7	113.3	99.1	96.3
40°	3692.4	3488.5	1192.1	243.5	209.5	172.7	130.3	99.1	82.1	70.8	70.8
42.5°	4060.5	3740.5	877.8	223.7	184.1	141.6	96.3	70.8	59.5	53.8	51.0
45°	4439.9	3964.2	591.8	206.7	161.4	107.6	68.0	48.1	39.6	39.6	36.8
47.5°	4833.5	4114.3	382.3	186.9	135.9	79.3	45.3	34.0	28.3	28.3	28.3
50°	5224.2	4193.6	271.8	169.9	110.4	53.8	34.0	25.5	22.7	22.7	22.7
52.5°	5507.4	4142.6	218.0	147.2	84.9	39.6	25.5	19.8	17.0	17.0	17.0
55°	5753.8	4054.8	189.7	127.4	62.3	28.3	19.8	17.0	14.2	14.2	14.2
57.5°	6005.8	3941.5	169.9	107.6	45.3	19.8	14.2	11.3	11.3	11.3	11.3
60°	6235.1	3749.0	147.2	84.9	31.1	14.2	11.3	8.5	8.5	8.5	8.5
62.5°	6458.8	3584.8	127.4	65.1	22.7	11.3	5.7	5.7	2.8	2.8	2.8
65°	6586.2	3363.9	101.9	42.5	14.2	8.5	2.8	2.8	0.0	0.0	0.0
67.5°	6546.6	3100.6	70.8	25.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0
70°	6271.9	2746.6	42.5	14.2	8.5	5.7	2.8	0.0	0.0	0.0	0.0
72.5°	5252.6	2033.1	25.5	11.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0
75°	3508.3	934.4	14.2	8.5	2.8	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	1605.5	280.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	322.8	73.6	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.0	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	2.8	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)