

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: P399763

Luminaire Tested: **ARCH-L-PA3-190-722-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399763
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-PA3-190-722-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 810mA 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: 14857 lumens
Efficiency: N/A
Efficacy: 78.6 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

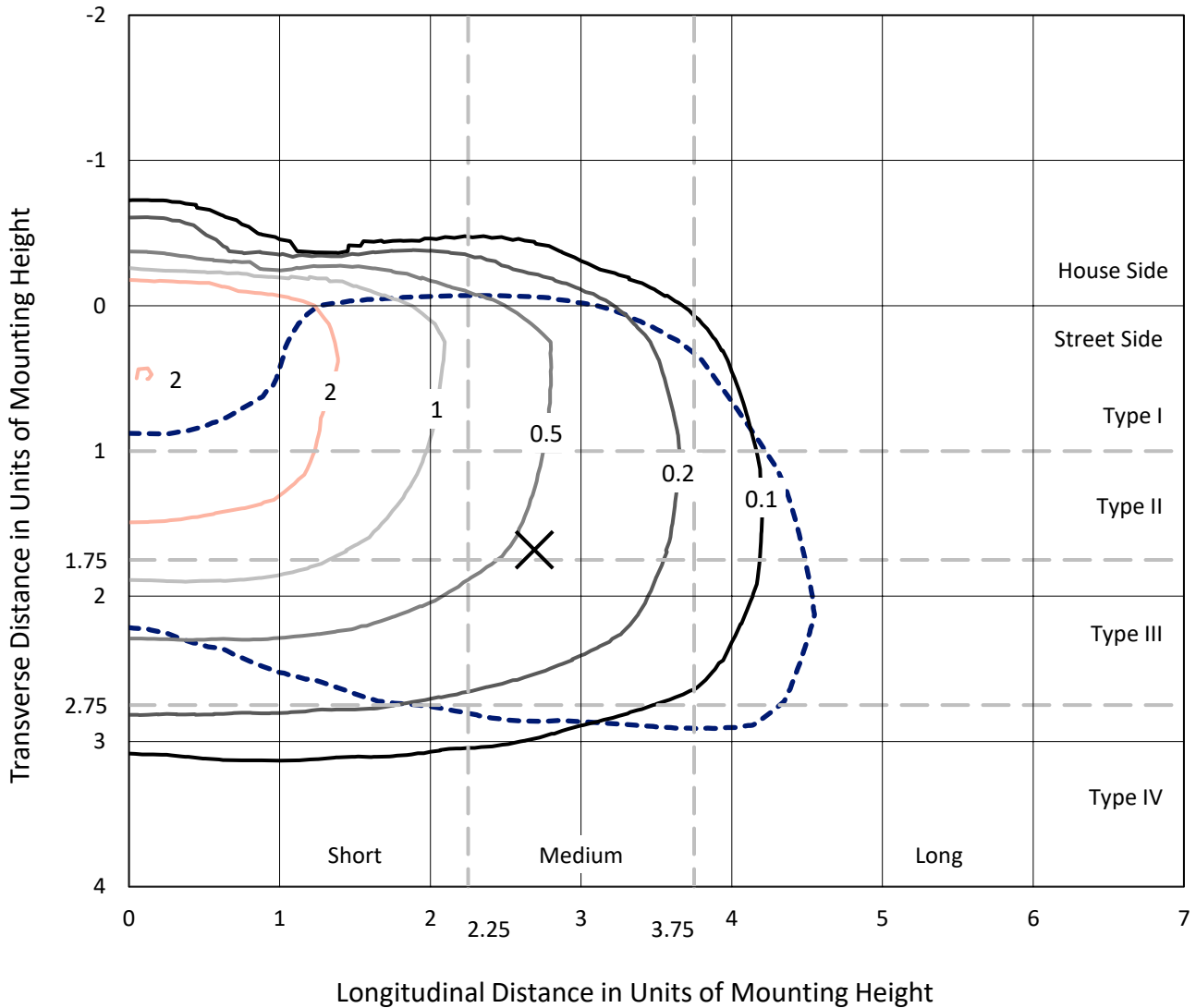
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

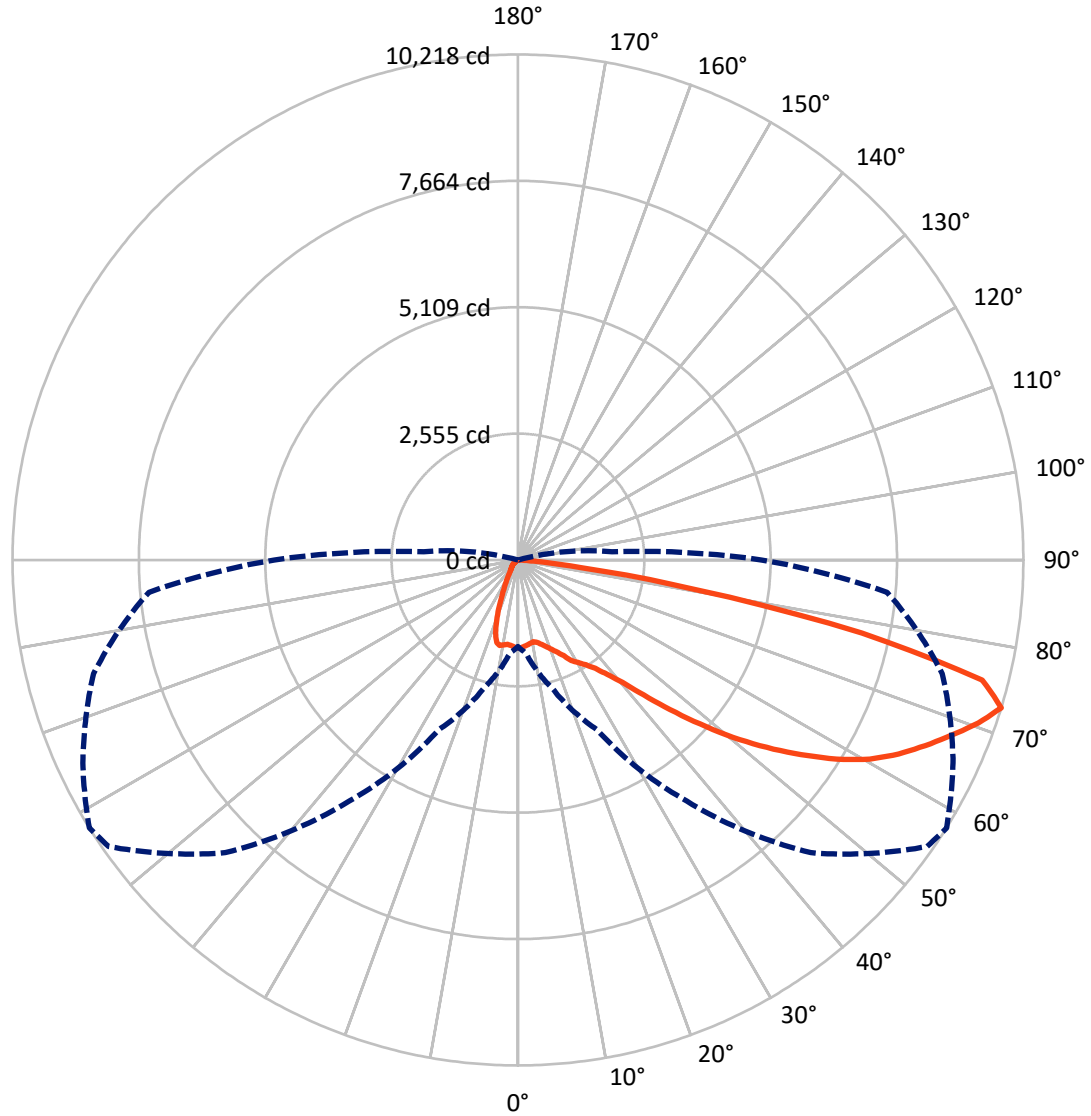
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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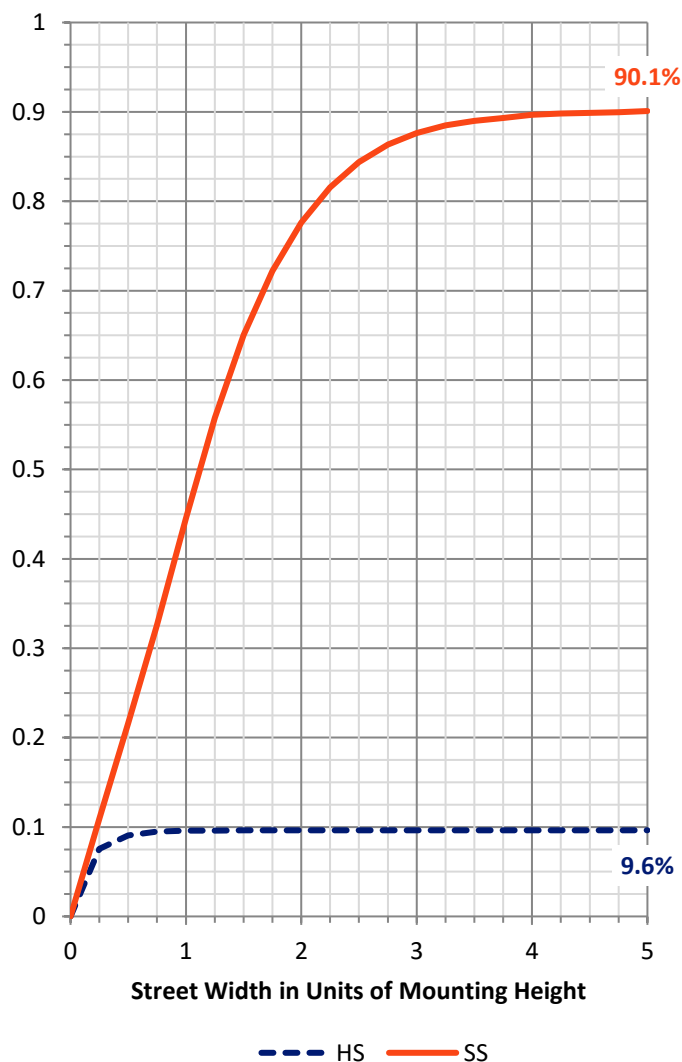
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1444.7	0.0	1444.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	13412.3	0.0	13412.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	14857.0	0.0	14857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.1
10°-20°	426.1	2.9
20°-30°	669.4	4.5
30°-40°	1154.5	7.8
40°-50°	2196.5	14.8
50°-60°	3478.6	23.4
60°-70°	4059.1	27.3
70°-80°	2542.2	17.1
80°-90°	166.9	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°	14857.0	100.0
0°-180°	14857.0	100.0

Coefficient of Utilization



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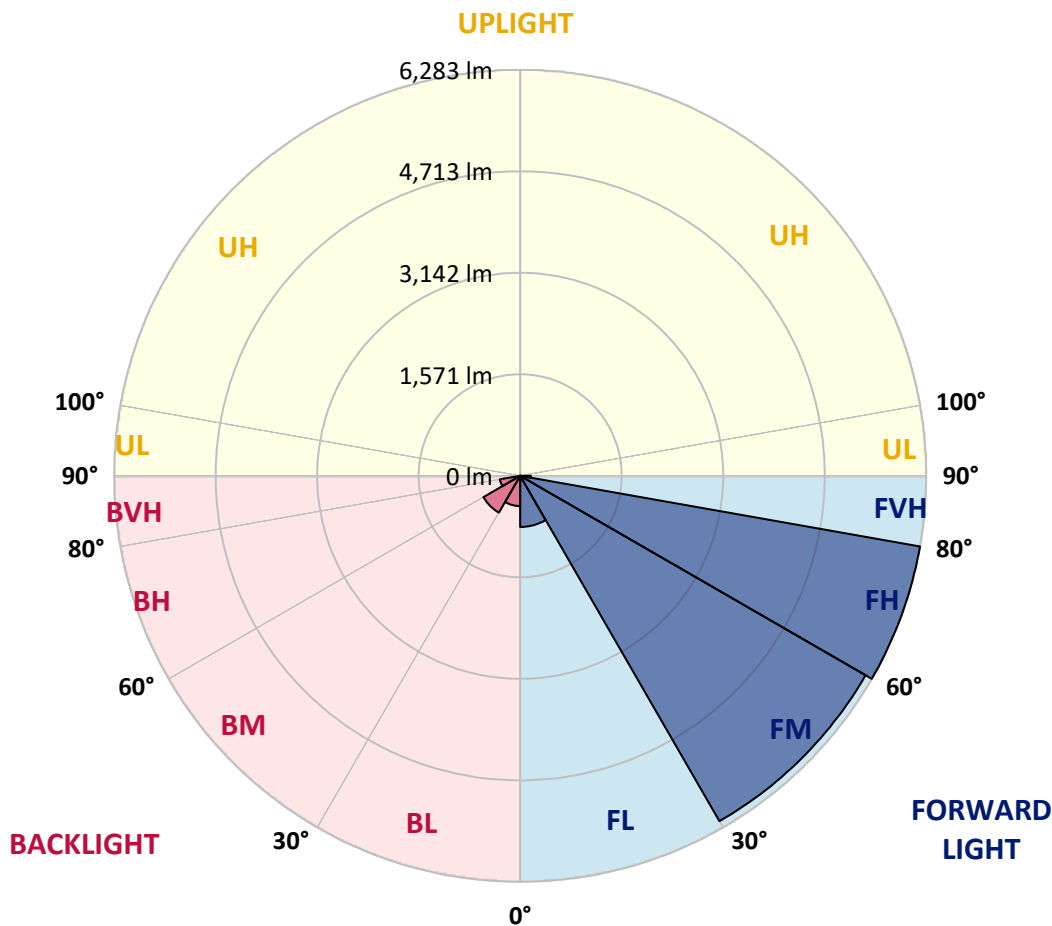
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.3	5.3			
FM (30°-60°)	6172.2	41.5			
FH (60°-80°)	6283.4	42.3			G3/7500
FVH (80°-90°)	165.3	1.1			G2/225
BL (0°-30°)	467.9	3.1	B1/500		
BM (30°-60°)	657.4	4.4	B1/1000		
BH (60°-80°)	317.9	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1774.8	1766.8	1764.2	1761.5	1764.2	1766.8	1758.8	1766.8	1761.5	1764.2	1769.5
5°	1711.0	1703.0	1700.4	1703.0	1711.0	1724.3	1729.6	1737.6	1737.6	1745.6	1748.2
7.5°	1639.3	1634.0	1631.3	1636.6	1652.6	1681.8	1697.7	1708.4	1719.0	1734.9	1750.9
10°	1599.4	1596.8	1594.1	1602.1	1618.0	1644.6	1665.8	1681.8	1721.6	1766.8	1796.0
12.5°	1572.9	1572.9	1578.2	1594.1	1615.4	1636.6	1687.1	1708.4	1769.5	1838.5	1878.4
15°	1551.6	1551.6	1559.6	1588.8	1618.0	1668.5	1742.9	1766.8	1838.5	1923.6	1976.7
17.5°	1535.7	1541.0	1546.3	1575.5	1631.3	1716.3	1804.0	1838.5	1926.2	2019.2	2077.7
20°	1538.3	1543.6	1546.3	1575.5	1655.2	1772.1	1883.7	1923.6	2024.5	2122.8	2181.3
22.5°	1554.3	1562.2	1564.9	1604.7	1697.7	1830.6	1974.0	2019.2	2128.1	2231.8	2276.9
25°	1620.7	1626.0	1610.1	1644.6	1758.8	1920.9	2090.9	2138.8	2247.7	2343.3	2380.5
27.5°	1846.5	1851.8	1764.2	1724.3	1806.7	1995.3	2234.4	2300.8	2436.3	2500.1	2505.4
30°	2335.4	2340.7	2168.0	1979.4	1920.9	2059.1	2314.1	2407.1	2582.5	2654.2	2622.3
32.5°	2965.0	2959.7	2723.3	2444.3	2191.9	2170.7	2428.4	2526.7	2718.0	2787.0	2763.1
35°	3597.4	3605.4	3403.4	2983.6	2622.3	2380.5	2574.5	2688.7	2919.9	3018.2	2975.7
37.5°	4030.4	4083.6	3995.9	3541.6	3151.0	2768.4	2811.0	2933.2	3222.8	3355.6	3265.3
40°	4641.5	4628.2	4415.7	4080.9	3735.5	3342.3	3193.5	3252.0	3584.1	3762.1	3621.3
42.5°	5462.5	5435.9	5074.6	4747.8	4362.6	4041.1	3738.2	3727.6	3998.6	4205.8	4001.2
45°	6206.4	6166.6	5919.5	5603.3	5180.9	4811.6	4402.4	4309.4	4498.1	4673.4	4434.3
47.5°	6798.9	6732.5	6557.1	6389.7	6286.1	5712.2	5098.5	4957.7	5053.3	5183.5	4846.1
50°	7500.3	7317.0	7061.9	6961.0	7176.2	6732.5	5768.0	5632.5	5627.2	5701.6	5271.2
52.5°	7819.1	7487.0	7343.5	7428.6	7808.5	7681.0	6490.7	6296.7	6219.7	6227.7	5667.1
55°	7433.9	7396.7	7473.7	7739.4	8236.2	8161.9	7184.1	6945.0	6830.8	6687.3	6047.0
57.5°	6995.5	7109.7	7415.3	7922.7	8778.2	8664.0	7866.9	7595.9	7386.1	7056.6	6469.4
60°	6591.7	6708.6	7213.4	7965.3	9075.8	9147.6	8435.5	8177.8	7866.9	7433.9	6934.4
62.5°	5977.9	6068.3	6777.6	7904.1	8945.6	9429.2	8831.4	8637.4	8347.8	7792.6	7468.4
65°	5287.1	5345.6	6047.0	7415.3	8690.6	9397.3	9158.2	9049.2	8767.6	8167.2	7997.1
67.5°	4529.9	4599.0	5183.5	6535.9	8191.1	9248.5	9466.4	9455.7	9134.3	8581.6	8379.7
70°	3658.5	3663.8	4147.4	5420.0	7319.6	8950.9	9849.0	9872.9	9485.0	8892.5	8395.7
72.5°	1750.9	1894.3	2688.7	3783.4	5948.7	8366.4	10098.7	10218.3	9705.5	8881.9	7489.7
75°	401.2	414.5	783.8	1798.7	3488.5	6421.6	9474.3	9697.5	9168.8	7681.0	5276.5
77.5°	146.1	154.1	220.5	526.1	1341.7	3318.4	6780.3	7107.1	6777.6	4965.7	2494.8
80°	98.3	95.6	114.2	233.8	616.4	940.5	3467.2	3661.1	3342.3	1695.1	597.8
82.5°	50.5	53.1	79.7	130.2	414.5	326.8	1158.4	1259.3	1036.2	340.1	111.6
85°	23.9	23.9	45.2	82.4	175.4	114.2	257.7	310.9	279.0	148.8	37.2
87.5°	23.9	23.9	42.5	53.1	90.3	47.8	63.8	79.7	74.4	79.7	13.3
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°	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7	1782.7
2.5°	1769.5	1766.8	1764.2	1769.5	1766.8	1772.1	1772.1	1777.4	1777.4	1772.1	1769.5
5°	1745.6	1740.2	1734.9	1734.9	1732.3	1737.6	1753.5	1766.8	1769.5	1761.5	1758.8
7.5°	1748.2	1748.2	1742.9	1732.3	1713.7	1713.7	1713.7	1729.6	1737.6	1732.3	1729.6
10°	1796.0	1798.7	1785.4	1761.5	1729.6	1700.4	1644.6	1562.2	1485.2	1463.9	1456.0
12.5°	1878.4	1881.1	1854.5	1812.0	1745.6	1572.9	1360.3	1163.7	1012.3	969.8	961.8
15°	1976.7	1979.4	1931.5	1862.5	1660.5	1259.3	943.2	720.0	587.2	555.3	552.6
17.5°	2077.7	2072.3	2000.6	1867.8	1408.1	892.7	573.9	459.6	425.1	417.1	419.8
20°	2176.0	2160.0	2061.7	1769.5	1084.0	584.5	419.8	393.2	385.2	379.9	379.9
22.5°	2266.3	2234.4	2112.2	1575.5	759.9	419.8	374.6	369.3	358.7	350.7	348.0
25°	2356.6	2311.5	2144.1	1323.1	510.1	366.6	353.4	342.7	329.4	318.8	316.2
27.5°	2465.6	2401.8	2128.1	1004.3	382.6	340.1	329.4	313.5	294.9	279.0	273.7
30°	2569.2	2497.4	2037.8	693.4	326.8	313.5	297.6	273.7	249.7	231.1	225.8
32.5°	2699.4	2617.0	1875.7	454.3	284.3	273.7	257.7	228.5	196.6	175.4	170.0
35°	2885.3	2792.4	1668.5	318.8	249.7	231.1	209.9	178.0	143.5	127.5	124.9
37.5°	3145.7	3020.8	1408.1	257.7	220.5	194.0	162.1	130.2	106.3	93.0	90.3
40°	3464.5	3273.2	1118.5	228.5	196.6	162.1	122.2	93.0	77.0	66.4	66.4
42.5°	3809.9	3509.7	823.6	209.9	172.7	132.8	90.3	66.4	55.8	50.5	47.8
45°	4165.9	3719.6	555.3	194.0	151.4	101.0	63.8	45.2	37.2	37.2	34.5
47.5°	4535.3	3860.4	358.7	175.4	127.5	74.4	42.5	31.9	26.6	26.6	26.6
50°	4901.9	3934.8	255.1	159.4	103.6	50.5	31.9	23.9	21.3	21.3	21.3
52.5°	5167.6	3887.0	204.6	138.2	79.7	37.2	23.9	18.6	15.9	15.9	15.9
55°	5398.7	3804.6	178.0	119.6	58.5	26.6	18.6	15.9	13.3	13.3	13.3
57.5°	5635.2	3698.3	159.4	101.0	42.5	18.6	13.3	10.6	10.6	10.6	10.6
60°	5850.4	3517.7	138.2	79.7	29.2	13.3	10.6	8.0	8.0	8.0	8.0
62.5°	6060.3	3363.6	119.6	61.1	21.3	10.6	5.3	5.3	2.7	2.7	2.7
65°	6179.8	3156.3	95.6	39.9	13.3	8.0	2.7	2.7	0.0	0.0	0.0
67.5°	6142.6	2909.3	66.4	23.9	8.0	5.3	2.7	0.0	0.0	0.0	0.0
70°	5884.9	2577.1	39.9	13.3	8.0	5.3	2.7	0.0	0.0	0.0	0.0
72.5°	4928.5	1907.6	23.9	10.6	5.3	2.7	0.0	0.0	0.0	0.0	0.0
75°	3291.8	876.8	13.3	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	1506.4	263.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	302.9	69.1	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.8	13.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.7	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)