

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: P400033

Luminaire Tested: **ARCH-L-PA3-220-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400033
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-PA3-220-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 945mA 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: 16616 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

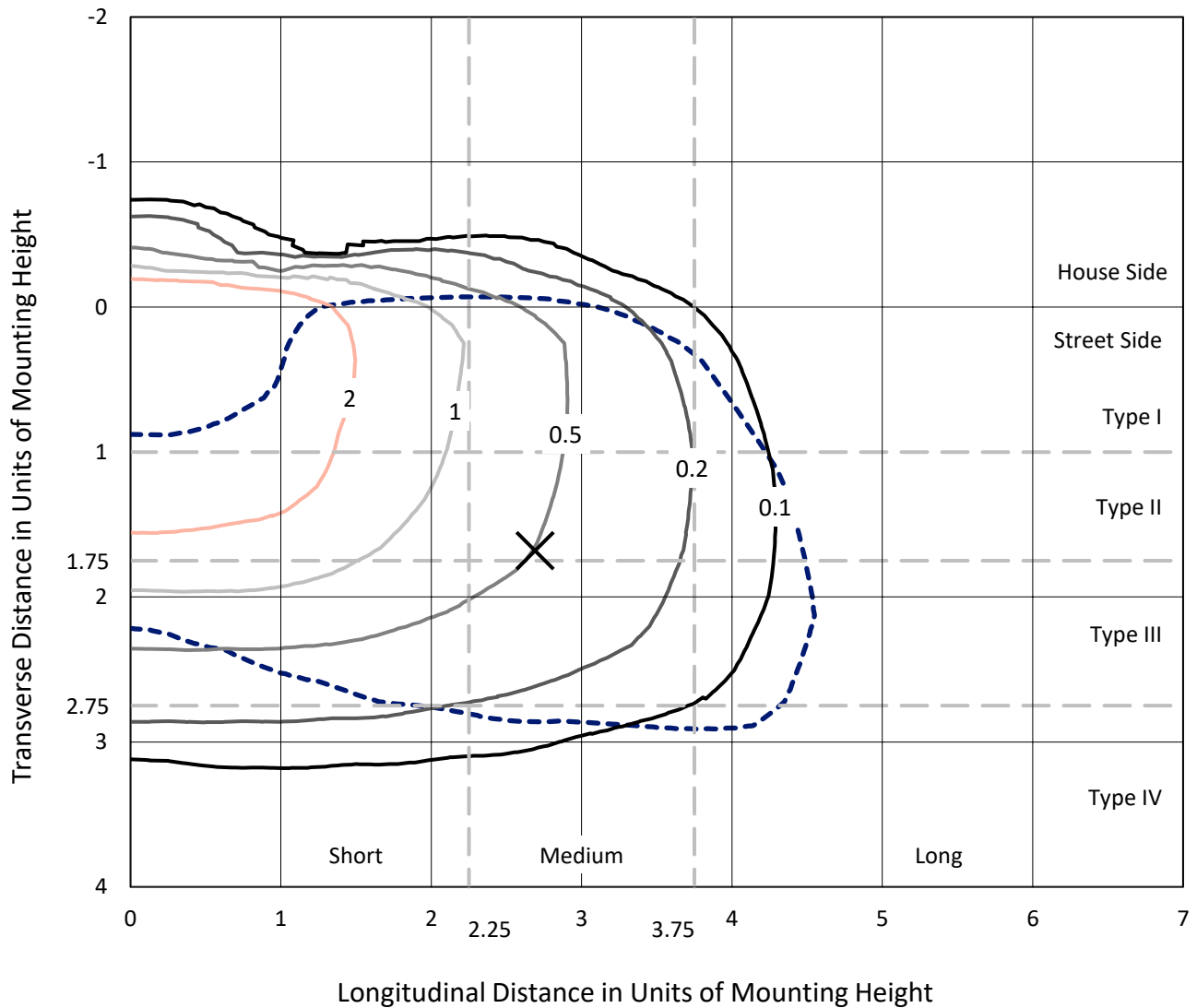
Input Watts (W): 222
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

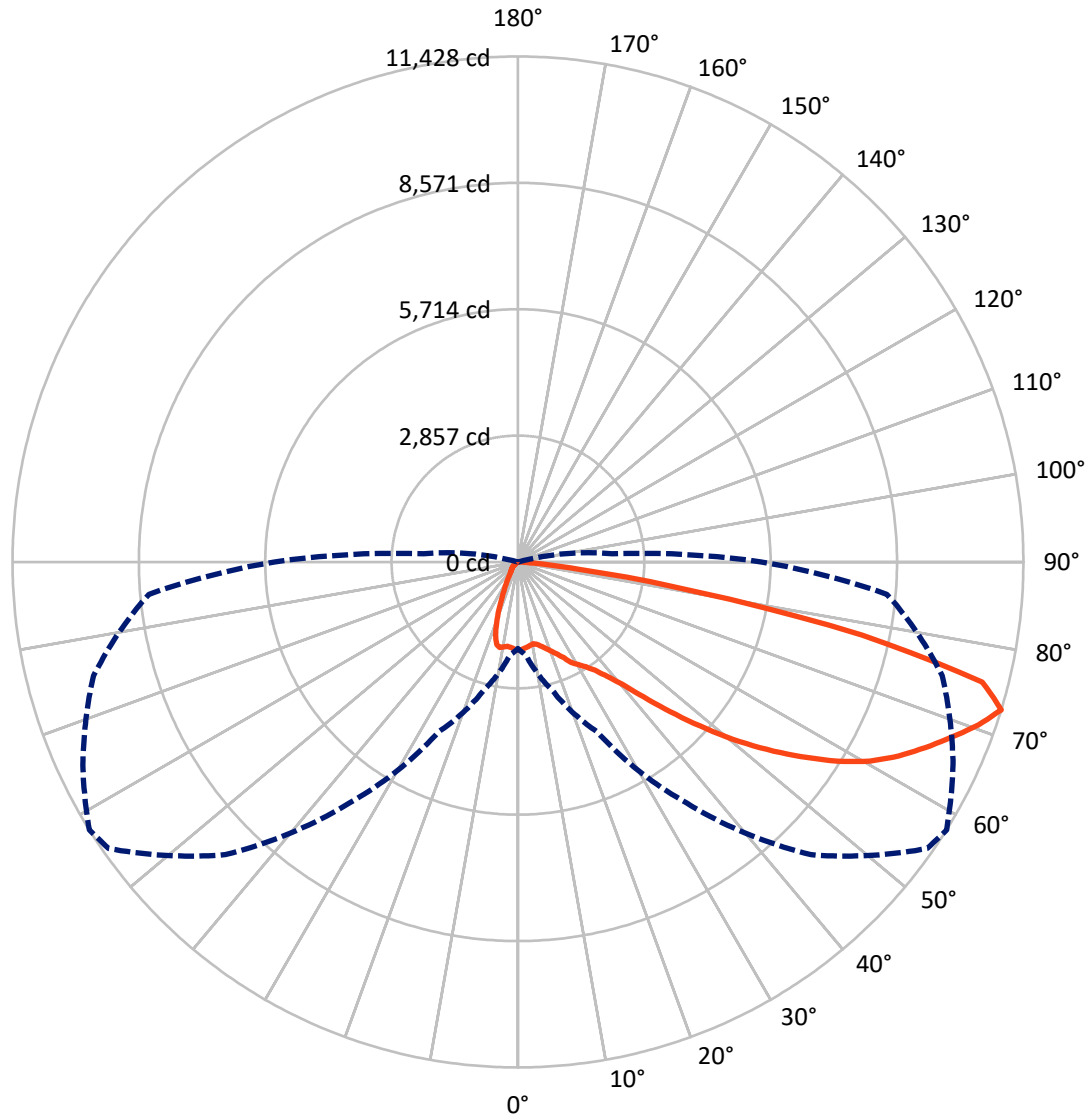
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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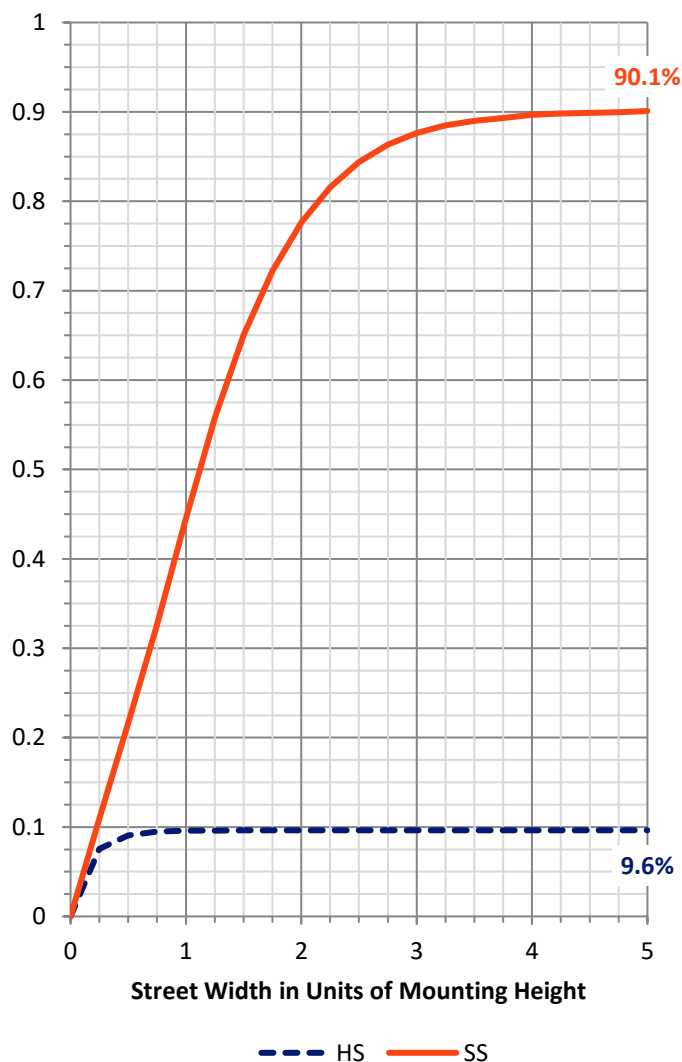
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.8	0.0	1615.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15000.2	0.0	15000.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	16616.0	0.0	16616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.1
10°-20°	476.6	2.9
20°-30°	748.7	4.5
30°-40°	1291.2	7.8
40°-50°	2456.6	14.8
50°-60°	3890.4	23.4
60°-70°	4539.7	27.3
70°-80°	2843.2	17.1
80°-90°	186.6	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°	16616.0	100.0
0°-180°	16616.0	100.0

Coefficient of Utilization



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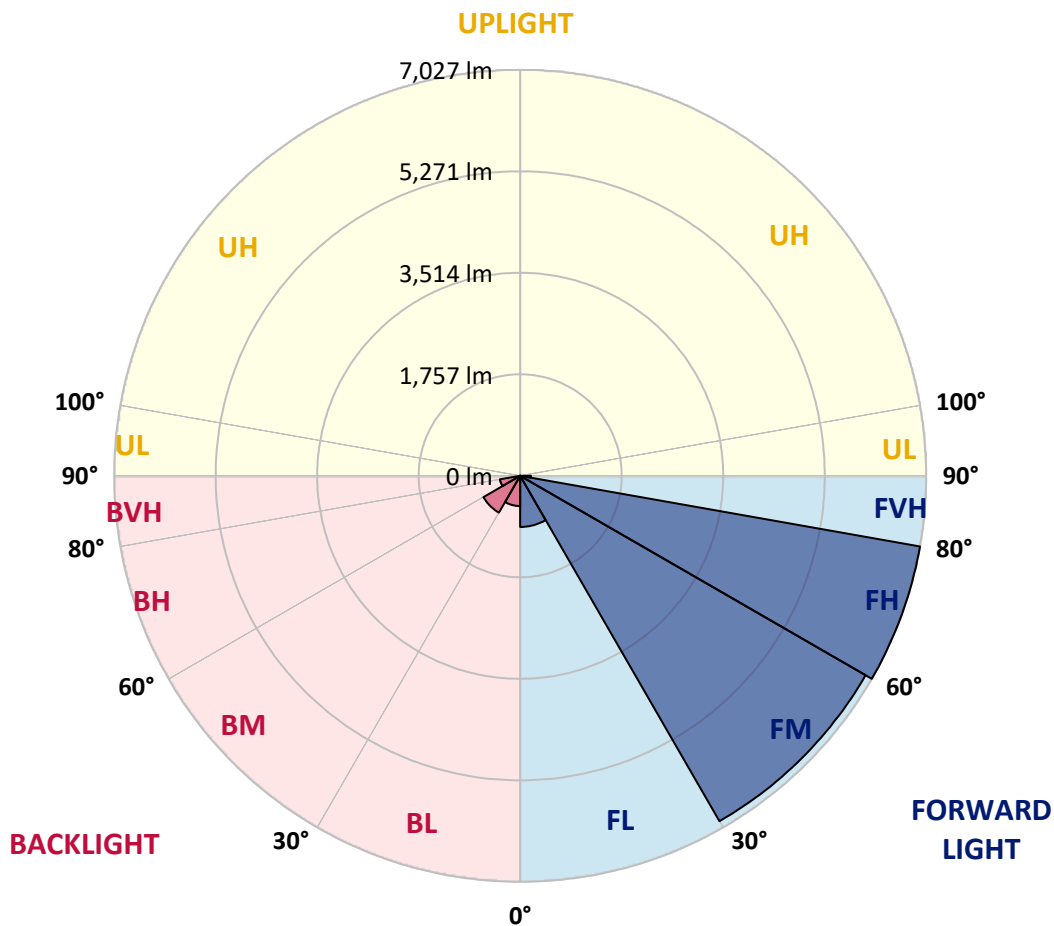
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.0	5.3			
FM (30°-60°)	6903.0	41.5			
FH (60°-80°)	7027.4	42.3			G3/7500
FVH (80°-90°)	184.8	1.1			G2/225
BL (0°-30°)	523.2	3.1	B2/1000		
BM (30°-60°)	735.2	4.4	B1/1000		
BH (60°-80°)	355.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8
2.5°	1984.9	1976.0	1973.0	1970.0	1973.0	1976.0	1967.1	1976.0	1970.0	1973.0	1979.0
5°	1913.6	1904.7	1901.7	1904.7	1913.6	1928.4	1934.4	1943.3	1943.3	1952.2	1955.2
7.5°	1833.4	1827.4	1824.4	1830.4	1848.2	1880.9	1898.7	1910.6	1922.5	1940.3	1958.2
10°	1788.8	1785.8	1782.8	1791.8	1809.6	1839.3	1863.1	1880.9	1925.5	1976.0	2008.7
12.5°	1759.1	1759.1	1765.0	1782.8	1806.6	1830.4	1886.8	1910.6	1979.0	2056.2	2100.8
15°	1735.3	1735.3	1744.2	1776.9	1809.6	1866.0	1949.2	1976.0	2056.2	2151.3	2210.7
17.5°	1717.5	1723.4	1729.4	1762.0	1824.4	1919.5	2017.6	2056.2	2154.3	2258.3	2323.6
20°	1720.4	1726.4	1729.4	1762.0	1851.2	1981.9	2106.7	2151.3	2264.2	2374.2	2439.5
22.5°	1738.3	1747.2	1750.2	1794.7	1898.7	2047.3	2207.8	2258.3	2380.1	2496.0	2546.5
25°	1812.6	1818.5	1800.7	1839.3	1967.1	2148.3	2338.5	2392.0	2513.8	2620.8	2662.4
27.5°	2065.1	2071.1	1973.0	1928.4	2020.6	2231.5	2499.0	2573.2	2724.8	2796.1	2802.0
30°	2611.9	2617.8	2424.7	2213.7	2148.3	2302.8	2588.1	2692.1	2888.2	2968.4	2932.8
32.5°	3316.1	3310.2	3045.7	2733.7	2451.4	2427.6	2715.9	2825.8	3039.8	3117.0	3090.3
35°	4023.3	4032.2	3806.4	3336.9	2932.8	2662.4	2879.3	3007.1	3265.6	3375.5	3328.0
37.5°	4507.6	4567.1	4469.0	3960.9	3524.1	3096.2	3143.8	3280.4	3604.3	3752.9	3651.9
40°	5191.1	5176.2	4938.5	4564.1	4177.8	3738.0	3571.6	3637.0	4008.4	4207.5	4050.0
42.5°	6109.2	6079.5	5675.4	5309.9	4879.1	4519.5	4180.8	4168.9	4472.0	4703.7	4474.9
45°	6941.2	6896.7	6620.3	6266.7	5794.3	5381.2	4923.6	4819.6	5030.6	5226.7	4959.3
47.5°	7603.8	7529.6	7333.4	7146.3	7030.4	6388.5	5702.1	5544.7	5651.6	5797.2	5419.9
50°	8388.3	8183.3	7898.0	7785.1	8025.8	7529.6	6450.9	6299.4	6293.5	6376.7	5895.3
52.5°	8744.9	8373.4	8213.0	8308.1	8733.0	8590.4	7259.2	7042.3	6956.1	6965.0	6338.0
55°	8314.0	8272.4	8358.6	8655.7	9211.4	9128.2	8034.7	7767.3	7639.5	7479.0	6762.9
57.5°	7823.7	7951.5	8293.2	8860.8	9817.6	9689.8	8798.4	8495.3	8260.5	7892.1	7235.4
60°	7372.1	7502.8	8067.4	8908.3	10150.3	10230.6	9434.2	9146.0	8798.4	8314.0	7755.4
62.5°	6685.7	6786.7	7580.1	8840.0	10004.8	10545.5	9877.0	9660.1	9336.2	8715.2	8352.6
65°	5913.1	5978.5	6762.9	8293.2	9719.5	10509.9	10242.5	10120.6	9805.7	9134.1	8944.0
67.5°	5066.3	5143.5	5797.2	7309.7	9160.9	10343.5	10587.1	10575.3	10215.7	9597.7	9371.8
70°	4091.6	4097.6	4638.4	6061.7	8186.2	10010.7	11015.0	11041.8	10607.9	9945.3	9389.7
72.5°	1958.2	2118.6	3007.1	4231.3	6653.0	9357.0	11294.3	11428.1	10854.6	9933.4	8376.4
75°	448.7	463.5	876.6	2011.6	3901.5	7181.9	10596.1	10845.7	10254.3	8590.4	5901.2
77.5°	163.4	172.3	246.6	588.3	1500.6	3711.3	7583.0	7948.5	7580.1	5553.6	2790.2
80°	109.9	107.0	127.8	261.5	689.4	1051.9	3877.7	4094.6	3738.0	1895.8	668.6
82.5°	56.5	59.4	89.1	145.6	463.5	365.5	1295.5	1408.5	1158.9	380.3	124.8
85°	26.7	26.7	50.5	92.1	196.1	127.8	288.2	347.7	312.0	166.4	41.6
87.5°	26.7	26.7	47.5	59.4	101.0	53.5	71.3	89.1	83.2	89.1	14.9
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°	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8	1993.8
2.5°	1979.0	1976.0	1973.0	1979.0	1976.0	1981.9	1981.9	1987.9	1987.9	1981.9	1979.0
5°	1952.2	1946.3	1940.3	1940.3	1937.4	1943.3	1961.1	1976.0	1979.0	1970.0	1967.1
7.5°	1955.2	1955.2	1949.2	1937.4	1916.6	1916.6	1916.6	1934.4	1943.3	1937.4	1934.4
10°	2008.7	2011.6	1996.8	1970.0	1934.4	1901.7	1839.3	1747.2	1661.0	1637.2	1628.3
12.5°	2100.8	2103.8	2074.0	2026.5	1952.2	1759.1	1521.4	1301.5	1132.1	1084.6	1075.7
15°	2210.7	2213.7	2160.2	2083.0	1857.1	1408.5	1054.9	805.3	656.7	621.0	618.1
17.5°	2323.6	2317.7	2237.5	2088.9	1574.8	998.4	641.8	514.1	475.4	466.5	469.5
20°	2433.6	2415.8	2305.8	1979.0	1212.3	653.7	469.5	439.8	430.9	424.9	424.9
22.5°	2534.6	2499.0	2362.3	1762.0	849.8	469.5	419.0	413.0	401.1	392.2	389.3
25°	2635.6	2585.1	2397.9	1479.8	570.5	410.1	395.2	383.3	368.5	356.6	353.6
27.5°	2757.5	2686.2	2380.1	1123.2	427.9	380.3	368.5	350.6	329.8	312.0	306.1
30°	2873.4	2793.1	2279.1	775.5	365.5	350.6	332.8	306.1	279.3	258.5	252.6
32.5°	3019.0	2926.8	2097.8	508.1	317.9	306.1	288.2	255.5	219.9	196.1	190.2
35°	3227.0	3123.0	1866.0	356.6	279.3	258.5	234.7	199.1	160.5	142.6	139.7
37.5°	3518.2	3378.5	1574.8	288.2	246.6	216.9	181.3	145.6	118.9	104.0	101.0
40°	3874.7	3660.8	1251.0	255.5	219.9	181.3	136.7	104.0	86.2	74.3	74.3
42.5°	4261.0	3925.2	921.1	234.7	193.1	148.6	101.0	74.3	62.4	56.5	53.5
45°	4659.2	4160.0	621.0	216.9	169.4	112.9	71.3	50.5	41.6	41.6	38.6
47.5°	5072.2	4317.5	401.1	196.1	142.6	83.2	47.5	35.7	29.7	29.7	29.7
50°	5482.3	4400.7	285.3	178.3	115.9	56.5	35.7	26.7	23.8	23.8	23.8
52.5°	5779.4	4347.2	228.8	154.5	89.1	41.6	26.7	20.8	17.8	17.8	17.8
55°	6037.9	4255.1	199.1	133.7	65.4	29.7	20.8	17.8	14.9	14.9	14.9
57.5°	6302.4	4136.2	178.3	112.9	47.5	20.8	14.9	11.9	11.9	11.9	11.9
60°	6543.1	3934.2	154.5	89.1	32.7	14.9	11.9	8.9	8.9	8.9	8.9
62.5°	6777.8	3761.8	133.7	68.3	23.8	11.9	5.9	5.9	3.0	3.0	3.0
65°	6911.5	3530.0	107.0	44.6	14.9	8.9	3.0	3.0	0.0	0.0	0.0
67.5°	6869.9	3253.7	74.3	26.7	8.9	5.9	3.0	0.0	0.0	0.0	0.0
70°	6581.7	2882.3	44.6	14.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	5512.0	2133.5	26.7	11.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
75°	3681.6	980.6	14.9	8.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1684.8	294.2	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	338.7	77.3	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.3	14.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	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)