

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: P399772

Luminaire Tested: **ARCH-L-PA3-190-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399772
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-PA3-190-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 16901 lumens
Efficiency: N/A
Efficacy: 89.4 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

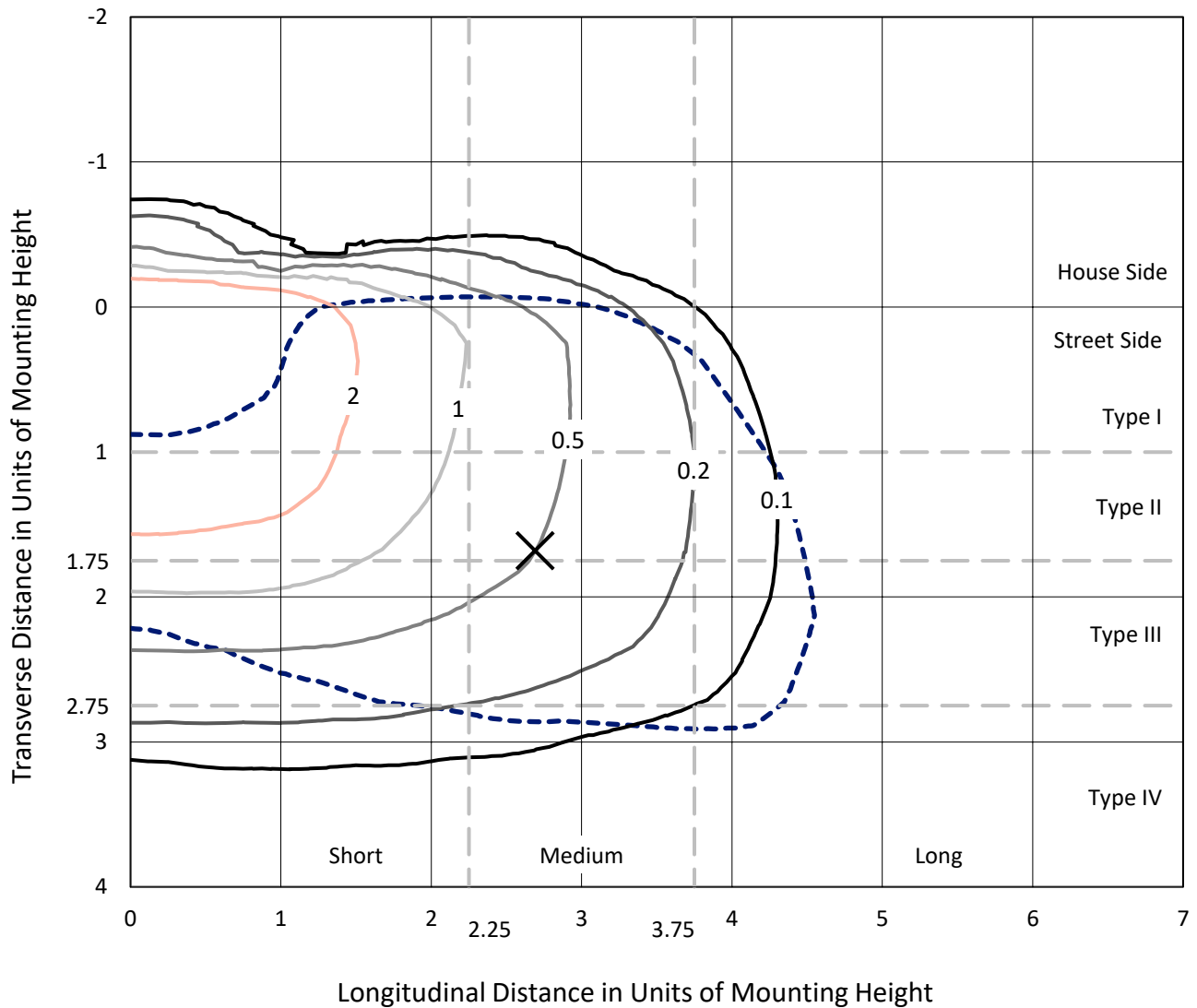
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

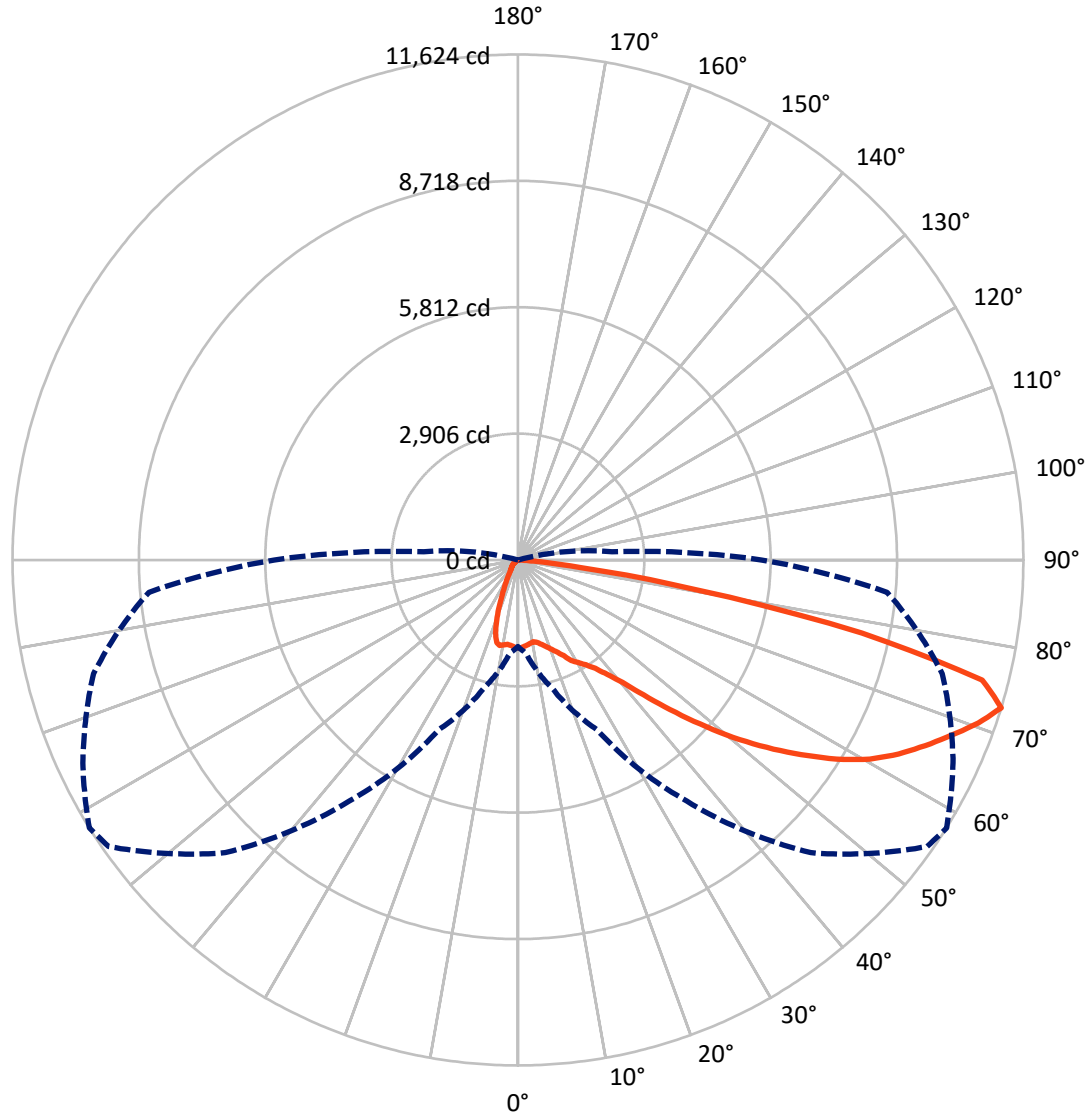
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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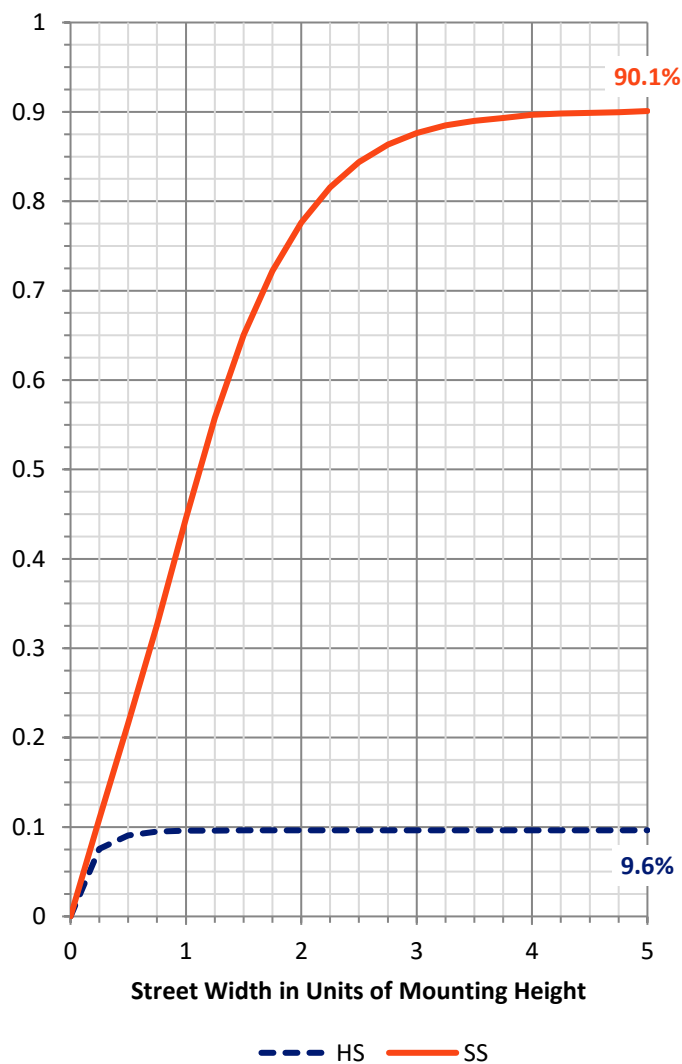
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.5	0.0	1643.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15257.5	0.0	15257.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	16901.0	0.0	16901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.1
10°-20°	484.8	2.9
20°-30°	761.5	4.5
30°-40°	1313.3	7.8
40°-50°	2498.7	14.8
50°-60°	3957.2	23.4
60°-70°	4617.6	27.3
70°-80°	2892.0	17.1
80°-90°	189.8	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°	16901.0	100.0
0°-180°	16901.0	100.0

Coefficient of Utilization



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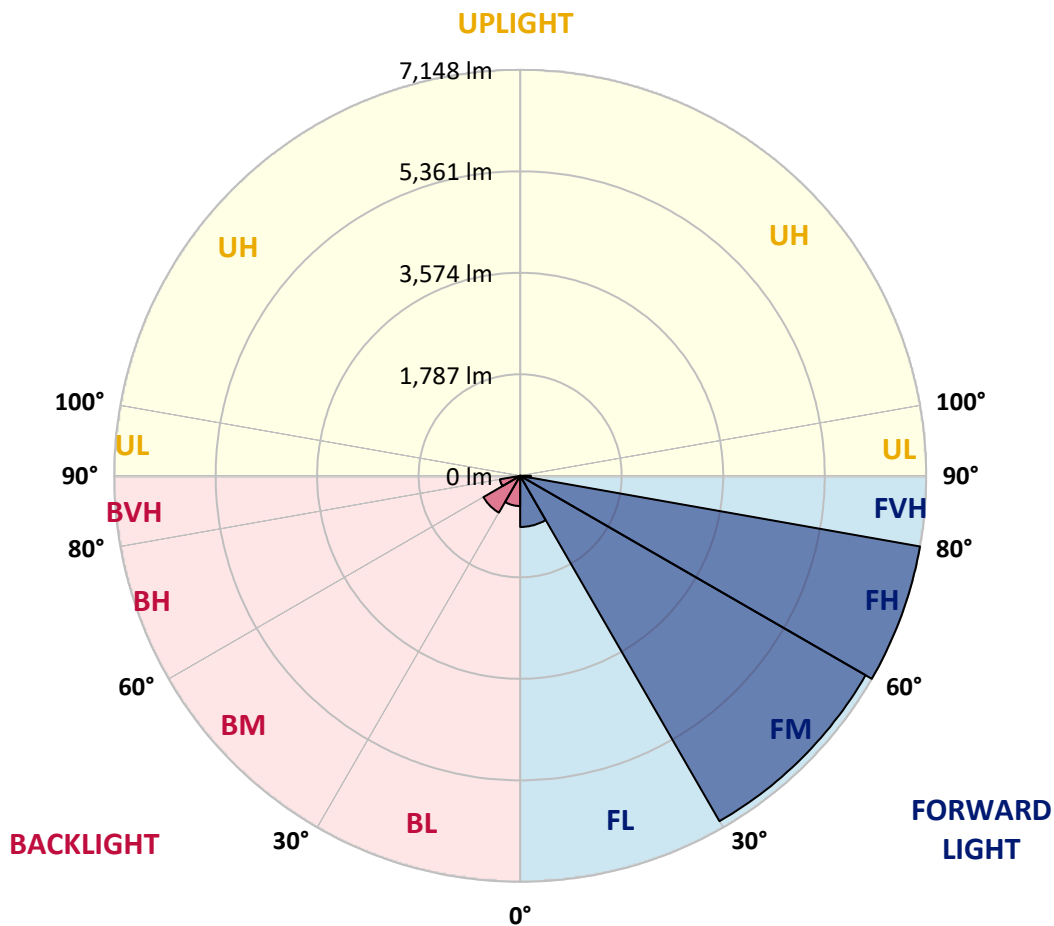
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.2	5.3			
FM (30°-60°)	7021.4	41.5			
FH (60°-80°)	7147.9	42.3			G3/7500
FVH (80°-90°)	188.0	1.1			G2/225
BL (0°-30°)	532.2	3.1	B2/1000		
BM (30°-60°)	747.8	4.4	B1/1000		
BH (60°-80°)	361.6	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°	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0
2.5°	2018.9	2009.9	2006.9	2003.8	2006.9	2009.9	2000.8	2009.9	2003.8	2006.9	2012.9
5°	1946.4	1937.3	1934.3	1937.3	1946.4	1961.5	1967.6	1976.6	1976.6	1985.7	1988.7
7.5°	1864.8	1858.8	1855.7	1861.8	1879.9	1913.2	1931.3	1943.4	1955.5	1973.6	1991.7
10°	1819.5	1816.5	1813.4	1822.5	1840.6	1870.9	1895.0	1913.2	1958.5	2009.9	2043.1
12.5°	1789.2	1789.2	1795.3	1813.4	1837.6	1861.8	1919.2	1943.4	2012.9	2091.5	2136.8
15°	1765.1	1765.1	1774.1	1807.4	1840.6	1898.1	1982.7	2009.9	2091.5	2188.2	2248.7
17.5°	1746.9	1753.0	1759.0	1792.3	1855.7	1952.5	2052.2	2091.5	2191.2	2297.0	2363.5
20°	1750.0	1756.0	1759.0	1792.3	1882.9	2015.9	2142.9	2188.2	2303.1	2414.9	2481.4
22.5°	1768.1	1777.2	1780.2	1825.5	1931.3	2082.4	2245.6	2297.0	2420.9	2538.8	2590.2
25°	1843.7	1849.7	1831.6	1870.9	2000.8	2185.2	2378.6	2433.0	2556.9	2665.7	2708.1
27.5°	2100.6	2106.6	2006.9	1961.5	2055.2	2269.8	2541.8	2617.4	2771.5	2844.1	2850.1
30°	2656.7	2662.7	2466.3	2251.7	2185.2	2342.3	2632.5	2738.3	2937.8	3019.4	2983.1
32.5°	3373.0	3366.9	3097.9	2780.6	2493.5	2469.3	2762.5	2874.3	3091.9	3170.5	3143.3
35°	4092.3	4101.4	3871.7	3394.1	2983.1	2708.1	2928.7	3058.6	3321.6	3433.4	3385.1
37.5°	4585.0	4645.4	4545.7	4028.8	3584.5	3149.3	3197.7	3336.7	3666.1	3817.3	3714.5
40°	5280.1	5265.0	5023.2	4642.4	4249.5	3802.2	3632.9	3699.4	4077.2	4279.7	4119.5
42.5°	6214.0	6183.8	5772.7	5401.0	4962.7	4597.0	4252.5	4240.4	4548.7	4784.4	4551.7
45°	7060.3	7014.9	6733.9	6374.2	5893.6	5473.5	5008.1	4902.3	5116.9	5316.4	5044.4
47.5°	7734.3	7658.7	7459.2	7268.8	7151.0	6498.1	5799.9	5639.8	5748.6	5896.7	5512.8
50°	8532.2	8323.6	8033.5	7918.6	8163.4	7658.7	6561.6	6407.4	6401.4	6486.0	5996.4
52.5°	8894.9	8517.1	8353.9	8450.6	8882.8	8737.7	7383.7	7163.0	7075.4	7084.5	6446.7
55°	8456.6	8414.3	8502.0	8804.2	9369.4	9284.8	8172.5	7900.5	7770.5	7607.3	6878.9
57.5°	7957.9	8087.9	8435.5	9012.7	9985.9	9856.0	8949.3	8641.0	8402.2	8027.4	7359.5
60°	7498.5	7631.5	8205.8	9061.1	10324.5	10406.1	9596.1	9302.9	8949.3	8456.6	7888.4
62.5°	6800.4	6903.1	7710.1	8991.6	10176.4	10726.4	10046.4	9825.8	9496.3	8864.6	8495.9
65°	6014.5	6081.0	6878.9	8435.5	9886.2	10690.2	10418.1	10294.2	9973.9	9290.8	9097.4
67.5°	5153.2	5231.7	5896.7	7435.1	9318.0	10520.9	10768.7	10756.7	10390.9	9762.3	9532.6
70°	4161.8	4167.9	4717.9	6165.7	8326.7	10182.4	11204.0	11231.2	10789.9	10115.9	9550.7
72.5°	1991.7	2155.0	3058.6	4303.9	6767.1	9517.5	11488.1	11624.1	11040.8	10103.8	8520.1
75°	456.4	471.5	891.6	2046.2	3968.4	7305.1	10777.8	11031.7	10430.2	8737.7	6002.4
77.5°	166.2	175.3	250.9	598.4	1526.3	3775.0	7713.1	8084.9	7710.1	5648.8	2838.0
80°	111.8	108.8	130.0	266.0	701.2	1069.9	3944.2	4164.8	3802.2	1928.3	680.0
82.5°	57.4	60.4	90.7	148.1	471.5	371.8	1317.8	1432.6	1178.7	386.9	126.9
85°	27.2	27.2	51.4	93.7	199.5	130.0	293.2	353.6	317.3	169.3	42.3
87.5°	27.2	27.2	48.4	60.4	102.8	54.4	72.5	90.7	84.6	90.7	15.1
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°	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0	2028.0
2.5°	2012.9	2009.9	2006.9	2012.9	2009.9	2015.9	2015.9	2022.0	2022.0	2015.9	2012.9
5°	1985.7	1979.7	1973.6	1973.6	1970.6	1976.6	1994.8	2009.9	2012.9	2003.8	2000.8
7.5°	1988.7	1988.7	1982.7	1970.6	1949.4	1949.4	1949.4	1967.6	1976.6	1970.6	1967.6
10°	2043.1	2046.2	2031.0	2003.8	1967.6	1934.3	1870.9	1777.2	1689.5	1665.3	1656.3
12.5°	2136.8	2139.8	2109.6	2061.3	1985.7	1789.2	1547.5	1323.8	1151.5	1103.2	1094.1
15°	2248.7	2251.7	2197.3	2118.7	1889.0	1432.6	1072.9	819.1	667.9	631.7	628.7
17.5°	2363.5	2357.5	2275.9	2124.7	1601.9	1015.5	652.8	522.9	483.6	474.5	477.5
20°	2475.3	2457.2	2345.4	2012.9	1233.1	664.9	477.5	447.3	438.2	432.2	432.2
22.5°	2578.1	2541.8	2402.8	1792.3	864.4	477.5	426.2	420.1	408.0	399.0	395.9
25°	2680.9	2629.5	2439.1	1505.1	580.3	417.1	402.0	389.9	374.8	362.7	359.7
27.5°	2804.8	2732.2	2420.9	1142.5	435.2	386.9	374.8	356.6	335.5	317.3	311.3
30°	2922.6	2841.0	2318.2	788.8	371.8	356.6	338.5	311.3	284.1	262.9	256.9
32.5°	3070.7	2977.0	2133.8	516.8	323.4	311.3	293.2	259.9	223.7	199.5	193.4
35°	3282.3	3176.5	1898.1	362.7	284.1	262.9	238.8	202.5	163.2	145.1	142.1
37.5°	3578.5	3436.4	1601.9	293.2	250.9	220.6	184.4	148.1	120.9	105.8	102.8
40°	3941.2	3723.6	1272.4	259.9	223.7	184.4	139.0	105.8	87.6	75.6	75.6
42.5°	4334.1	3992.6	936.9	238.8	196.5	151.1	102.8	75.6	63.5	57.4	54.4
45°	4739.1	4231.3	631.7	220.6	172.3	114.9	72.5	51.4	42.3	42.3	39.3
47.5°	5159.2	4391.5	408.0	199.5	145.1	84.6	48.4	36.3	30.2	30.2	30.2
50°	5576.3	4476.1	290.1	181.3	117.9	57.4	36.3	27.2	24.2	24.2	24.2
52.5°	5878.5	4421.7	232.7	157.2	90.7	42.3	27.2	21.2	18.1	18.1	18.1
55°	6141.5	4328.0	202.5	136.0	66.5	30.2	21.2	18.1	15.1	15.1	15.1
57.5°	6410.5	4207.2	181.3	114.9	48.4	21.2	15.1	12.1	12.1	12.1	12.1
60°	6655.3	4001.6	157.2	90.7	33.2	15.1	12.1	9.1	9.1	9.1	9.1
62.5°	6894.0	3826.3	136.0	69.5	24.2	12.1	6.0	6.0	3.0	3.0	3.0
65°	7030.1	3590.6	108.8	45.3	15.1	9.1	3.0	3.0	0.0	0.0	0.0
67.5°	6987.7	3309.5	75.6	27.2	9.1	6.0	3.0	0.0	0.0	0.0	0.0
70°	6694.6	2931.7	45.3	15.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	5606.5	2170.1	27.2	12.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	3744.7	997.4	15.1	9.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1713.7	299.2	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	344.6	78.6	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	15.1	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°	6.0	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)