

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: P237193

Luminaire Tested: **ARCH-L-AF72-200-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA 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: 17246.6 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

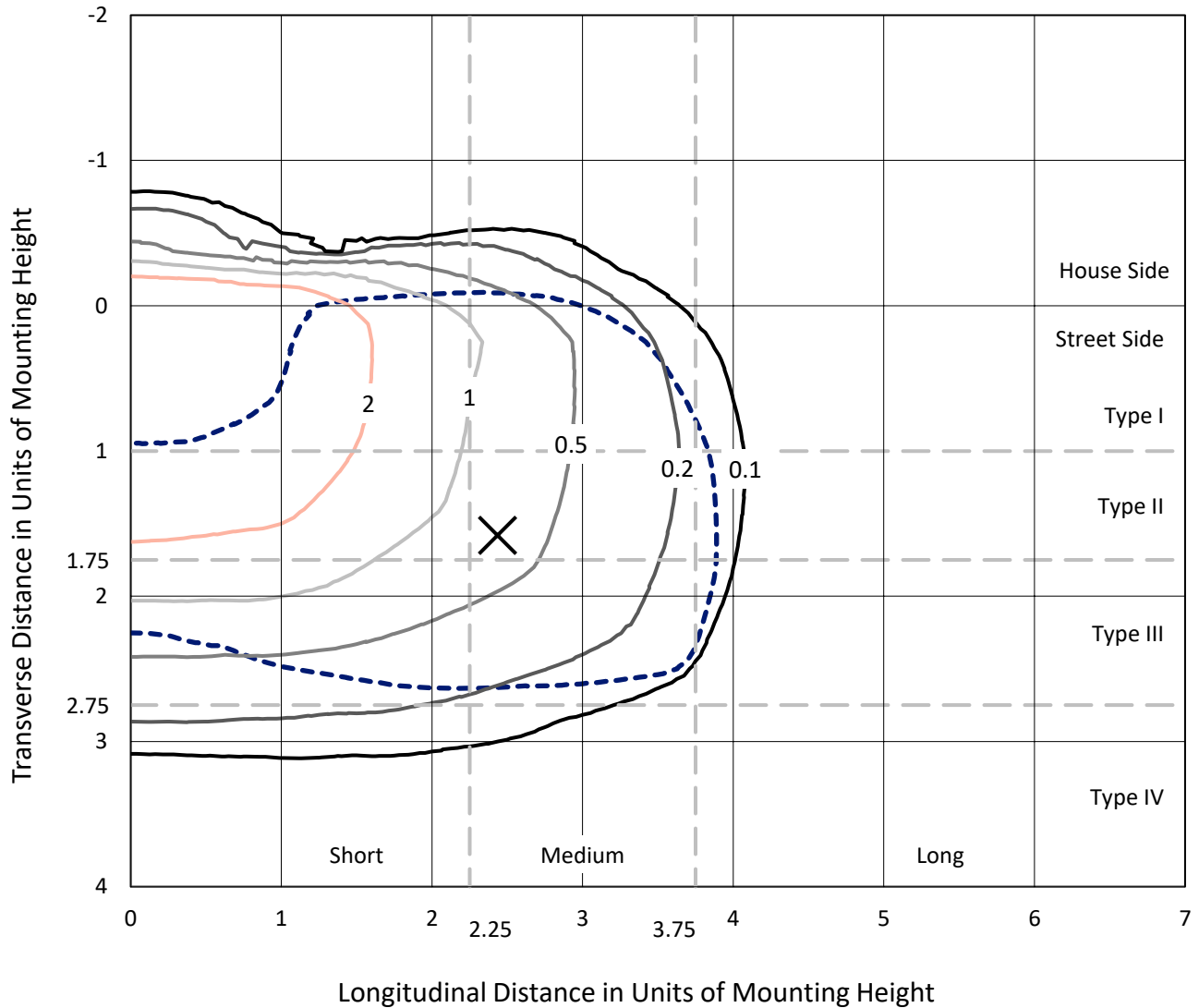
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

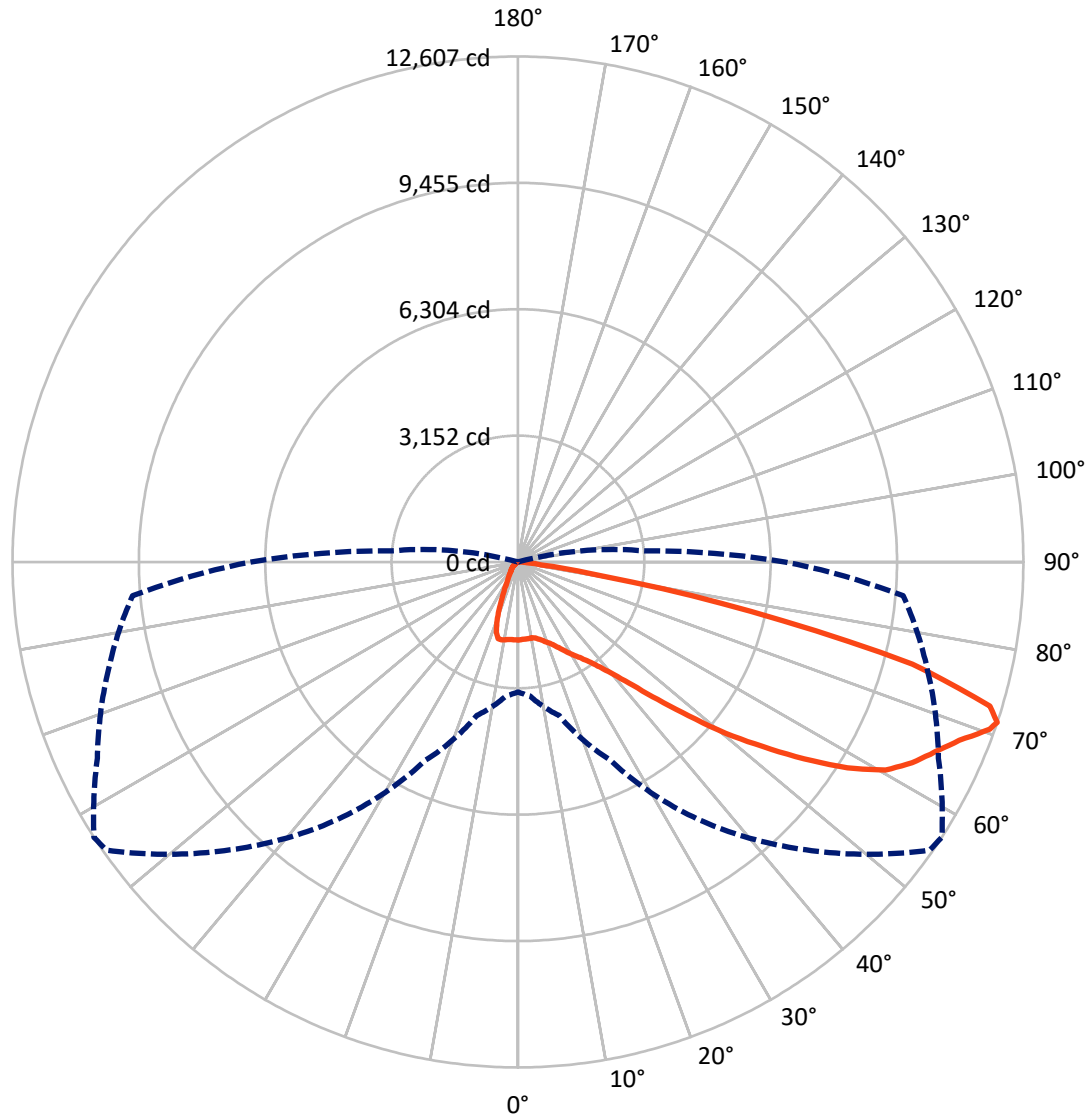
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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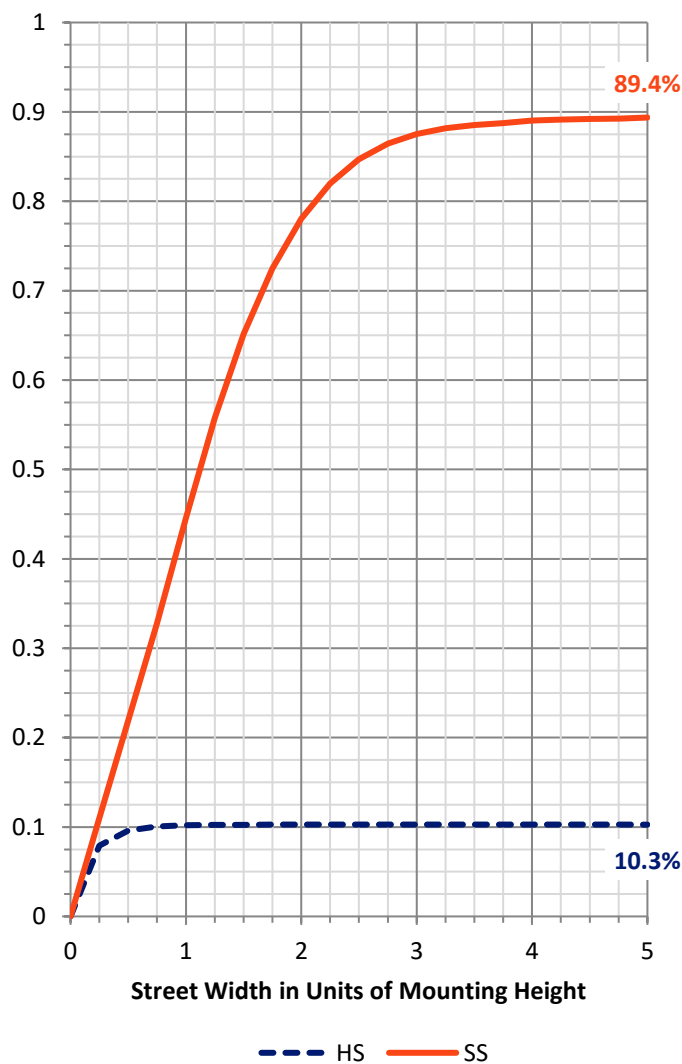
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.3	0.0	1787.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15459.3	0.0	15459.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	17246.6	0.0	17246.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.1
10°-20°	489.4	2.8
20°-30°	763.5	4.4
30°-40°	1290.4	7.5
40°-50°	2506.4	14.5
50°-60°	4209.0	24.4
60°-70°	5023.1	29.1
70°-80°	2647.2	15.3
80°-90°	134.5	0.8
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°	17246.6	100.0
0°-180°	17246.6	100.0

Coefficient of Utilization



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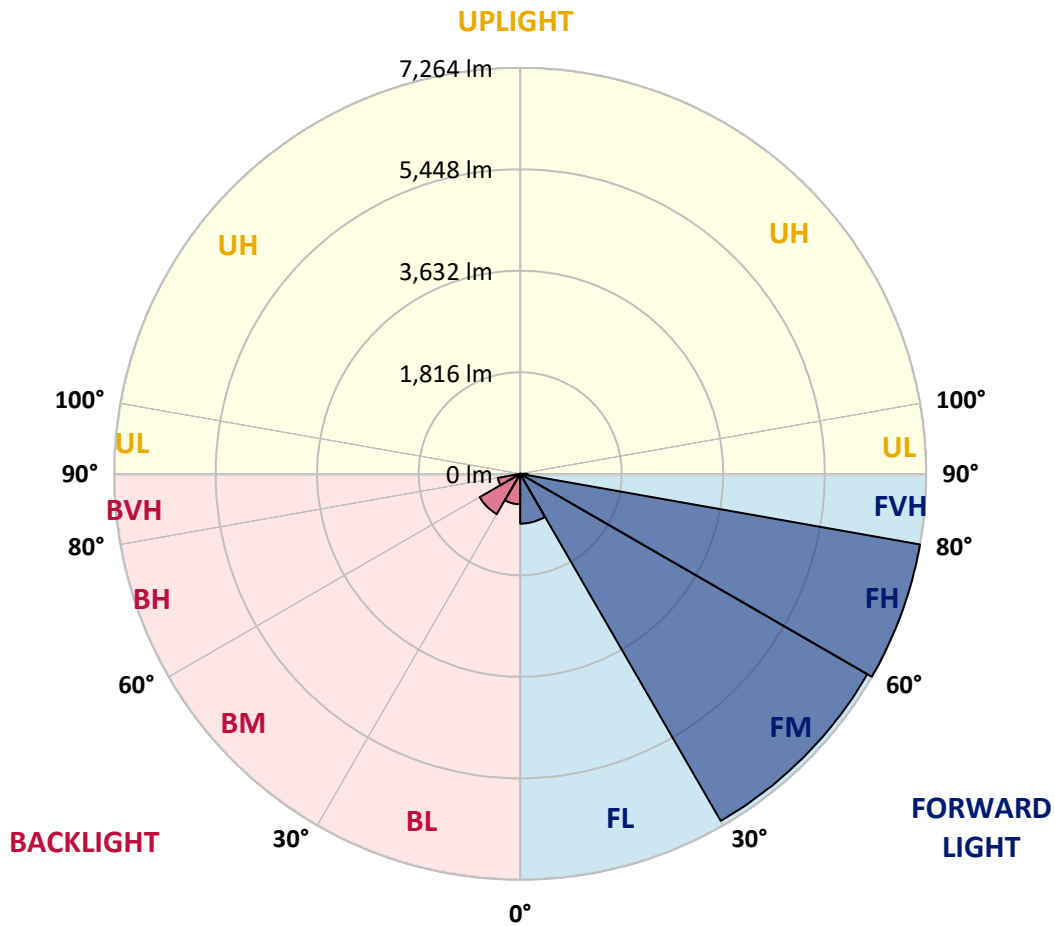
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.4	5.2			
FM (30°-60°)	7171.3	41.6			
FH (60°-80°)	7264.4	42.1			G3/7500
FVH (80°-90°)	133.2	0.8			G2/225
BL (0°-30°)	545.6	3.2	B2/1000		
BM (30°-60°)	834.5	4.8	B1/1000		
BH (60°-80°)	405.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1921.0	1921.0	1921.0	1925.0	1929.1	1929.1	1937.0	1933.1	1933.1	1933.1	1941.1
5°	1868.8	1872.8	1876.7	1884.8	1900.9	1912.9	1933.1	1933.1	1937.0	1945.2	1949.0
7.5°	1796.4	1800.4	1812.5	1828.6	1860.6	1888.9	1921.0	1929.1	1941.1	1961.2	1969.2
10°	1752.2	1760.2	1776.3	1796.4	1832.6	1868.8	1909.0	1921.0	1957.2	1993.3	2013.4
12.5°	1740.2	1744.3	1760.2	1792.4	1836.6	1880.8	1933.1	1945.2	1997.4	2053.6	2085.8
15°	1760.2	1764.2	1772.3	1808.5	1860.6	1917.0	1985.2	2001.4	2065.6	2130.0	2170.1
17.5°	1796.4	1796.4	1804.4	1836.6	1892.8	1957.2	2045.6	2069.7	2142.0	2214.3	2258.6
20°	1820.5	1820.5	1832.6	1864.7	1929.1	2013.4	2117.9	2150.1	2230.4	2310.9	2351.0
22.5°	1844.7	1848.6	1860.6	1896.8	1969.2	2085.8	2206.4	2238.5	2330.9	2415.2	2455.5
25°	1912.9	1909.0	1912.9	1945.2	2029.5	2174.2	2326.9	2367.1	2463.6	2556.0	2576.0
27.5°	2101.8	2093.9	2041.5	2021.6	2085.8	2266.6	2479.6	2519.8	2632.3	2724.7	2724.7
30°	2535.9	2519.8	2391.2	2226.3	2174.2	2351.0	2624.3	2680.5	2825.2	2905.6	2881.5
32.5°	3086.5	3050.3	2885.5	2604.2	2395.2	2463.6	2777.1	2841.3	3026.2	3094.4	3042.3
35°	3689.2	3685.2	3480.4	3118.6	2821.2	2696.6	2973.9	3050.3	3283.3	3343.7	3259.2
37.5°	4328.3	4344.3	4207.7	3709.4	3359.7	3078.4	3235.1	3323.5	3609.0	3681.3	3600.8
40°	5039.6	5035.5	4983.4	4392.6	4006.7	3621.0	3612.8	3693.3	4038.9	4151.5	4038.9
42.5°	5939.8	5931.8	5742.8	5212.4	4790.5	4328.3	4163.6	4191.6	4577.4	4762.3	4597.5
45°	6856.1	6799.9	6582.9	6124.6	5751.0	5204.3	4890.9	4890.9	5220.4	5473.7	5216.4
47.5°	7366.5	7310.2	7221.8	6968.7	6856.1	6245.3	5783.1	5726.9	5984.0	6241.2	5879.6
50°	8037.6	8037.6	7816.6	7720.2	7913.0	7483.0	6767.6	6711.5	6836.1	7041.0	6566.7
52.5°	8568.1	8471.6	8314.9	8399.3	8949.9	8753.0	7752.3	7643.8	7740.3	7792.5	7165.6
55°	8789.2	8696.7	8684.7	8994.1	9846.1	9572.9	8761.1	8664.6	8656.5	8399.3	7688.0
57.5°	8833.4	8753.0	8905.7	9448.2	10718.3	10243.9	9765.7	9693.4	9468.3	8825.3	8222.6
60°	8459.6	8499.9	8869.5	9697.5	11232.6	10826.7	10613.7	10537.3	10018.8	9186.9	8817.2
62.5°	7692.0	7788.4	8479.7	9721.6	11043.7	11063.8	11084.0	11031.7	10444.8	9516.6	9416.1
65°	6783.8	6811.9	7643.8	9388.0	10714.2	10991.5	11429.5	11425.5	10770.4	9886.4	10091.1
67.5°	5590.1	5638.5	6357.8	8262.7	10055.0	10959.2	11883.6	11871.6	11140.2	10308.3	10493.1
70°	4159.5	4219.7	4802.5	6426.1	8584.2	10557.4	12478.4	12486.4	11530.0	10629.8	10215.8
71°	3243.2	3351.6	3962.5	5457.5	7832.7	10151.5	12534.7	12607.0	11574.2	10585.6	9645.2
72.5°	1591.5	1720.1	2487.7	3842.0	6446.2	9243.3	12164.9	12305.7	11296.9	10035.0	8246.6
75°	414.0	438.0	743.5	1571.3	3456.2	6124.6	9810.0	10167.5	9235.2	7639.7	5039.6
77.5°	261.2	269.3	349.6	610.9	1294.0	2326.9	5763.0	5939.8	5276.6	3870.1	1776.3
80°	184.8	188.9	221.0	393.9	755.5	679.1	2073.7	2150.1	1909.0	1024.9	317.5
82.5°	112.5	112.5	160.7	253.2	466.2	369.8	546.6	582.7	514.4	285.3	104.5
85°	64.4	68.3	100.5	172.8	221.0	180.9	205.0	217.0	221.0	188.9	44.2
87.5°	52.2	56.3	88.4	144.7	120.5	88.4	88.4	92.5	96.4	112.5	20.1
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°	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0	1949.0
2.5°	1941.1	1941.1	1945.2	1941.1	1941.1	1941.1	1945.2	1945.2	1945.2	1953.1	1957.2
5°	1949.0	1949.0	1949.0	1945.2	1941.1	1941.1	1949.0	1953.1	1953.1	1965.2	1965.2
7.5°	1969.2	1969.2	1961.2	1953.1	1945.2	1933.1	1937.0	1941.1	1937.0	1941.1	1941.1
10°	2013.4	2013.4	2001.4	1985.2	1961.2	1925.0	1876.7	1816.6	1760.2	1740.2	1732.1
12.5°	2085.8	2081.7	2057.7	2029.5	1977.3	1852.7	1671.7	1458.8	1282.0	1233.7	1217.7
15°	2166.2	2158.1	2130.0	2081.7	1941.1	1611.6	1233.7	960.5	791.7	751.4	743.5
17.5°	2250.5	2238.5	2198.3	2101.8	1776.3	1197.6	795.7	602.8	510.4	502.4	506.4
20°	2338.9	2322.9	2266.6	2061.6	1434.7	799.8	514.4	466.2	458.2	458.2	462.1
22.5°	2439.4	2419.3	2342.9	1917.0	1044.8	530.5	442.1	438.0	434.0	430.1	430.1
25°	2556.0	2531.9	2415.2	1655.8	719.4	434.0	422.0	409.9	401.8	393.9	389.8
27.5°	2696.6	2664.5	2471.6	1334.3	494.3	405.9	397.8	377.8	361.6	345.6	345.6
30°	2837.3	2797.1	2455.5	1004.7	401.8	377.8	361.6	337.6	313.5	297.4	293.4
32.5°	2985.9	2945.7	2351.0	675.1	365.7	345.6	325.5	289.3	261.2	241.1	237.1
35°	3207.0	3174.8	2146.1	446.1	329.5	305.4	277.3	241.1	205.0	184.8	180.9
37.5°	3536.5	3496.4	1892.8	341.7	289.3	253.2	229.1	188.9	152.8	132.6	128.6
40°	3978.6	3858.1	1591.5	301.4	253.2	209.0	176.8	136.7	108.5	96.4	96.4
42.5°	4493.1	4207.7	1265.9	273.2	225.1	172.8	128.6	92.5	76.4	72.3	72.3
45°	5039.6	4533.1	940.4	253.2	196.8	136.7	92.5	64.4	56.3	52.2	52.2
47.5°	5602.3	4798.4	655.1	229.1	164.8	104.5	64.4	48.2	40.2	36.2	36.2
50°	6128.7	4971.3	462.1	205.0	140.6	76.4	48.2	36.2	28.1	28.1	28.1
52.5°	6494.4	4955.2	333.6	176.8	108.5	52.2	32.1	24.1	24.1	24.1	24.1
55°	6815.9	4895.0	261.2	152.8	84.3	36.2	24.1	20.1	20.1	16.1	16.1
57.5°	7089.2	4798.4	221.0	124.5	60.3	28.1	16.1	16.1	12.0	12.0	12.0
60°	7322.2	4677.9	184.8	104.5	40.2	20.1	12.0	8.0	8.0	4.1	8.0
62.5°	7639.7	4601.6	160.7	80.5	28.1	12.0	8.0	4.1	4.1	0.0	0.0
65°	7872.9	4456.9	136.7	56.3	16.1	8.0	4.1	4.1	0.0	0.0	0.0
67.5°	7880.9	4195.7	100.5	32.1	12.0	8.0	4.1	0.0	0.0	0.0	0.0
70°	7246.0	3576.7	64.4	16.1	8.0	4.1	4.1	0.0	0.0	0.0	0.0
71°	6663.1	3166.8	52.2	12.0	8.0	4.1	0.0	0.0	0.0	0.0	0.0
72.5°	5489.7	2326.9	40.2	12.0	4.1	4.1	0.0	0.0	0.0	0.0	0.0
75°	3026.2	843.9	20.1	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	968.6	257.2	12.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.8	40.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.3	16.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.1	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)