

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: P258054

Luminaire Tested: **ARCH-L-AF72-180-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P258054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-180-D-U-T2U-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15040.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

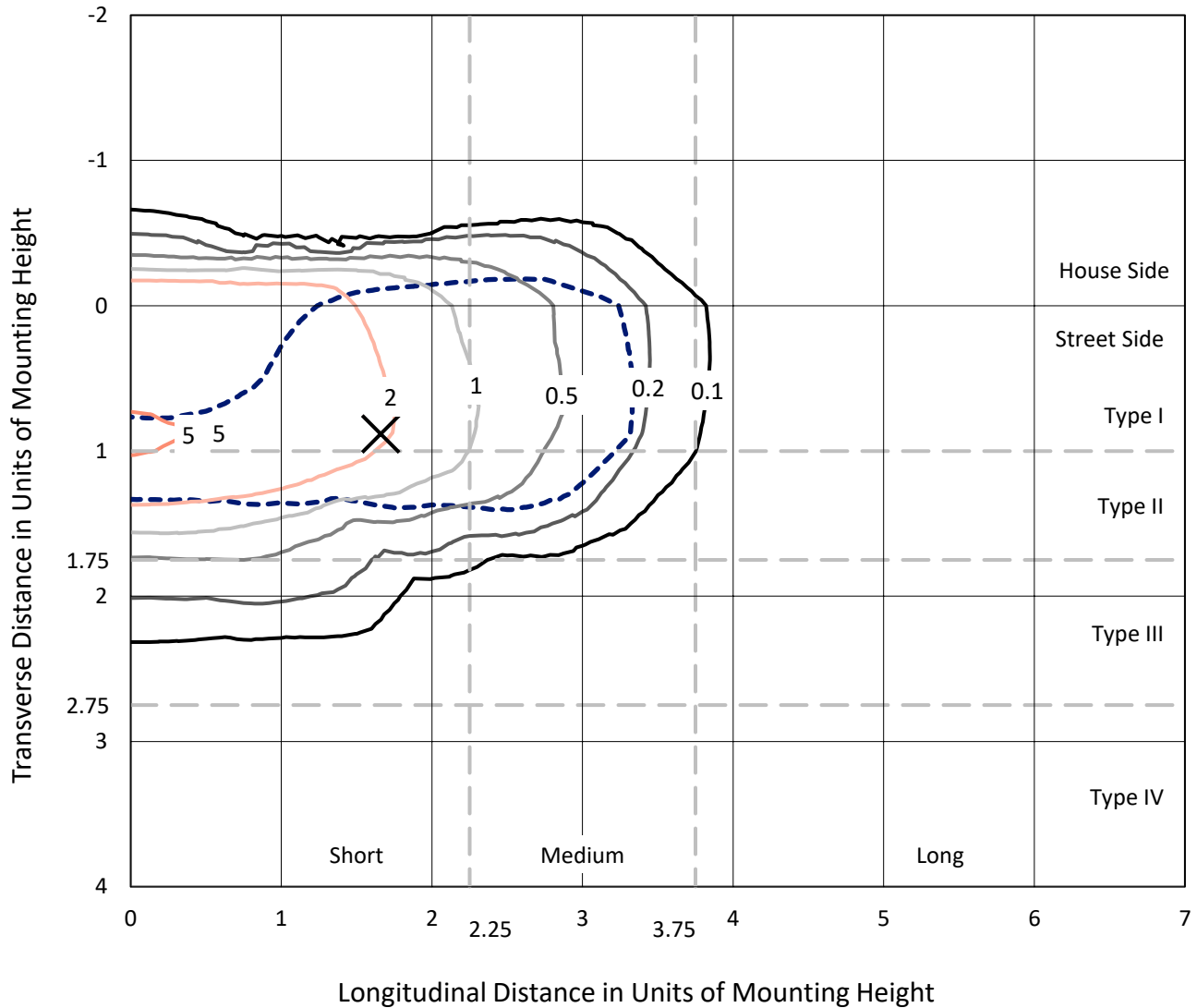
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P258054
 CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

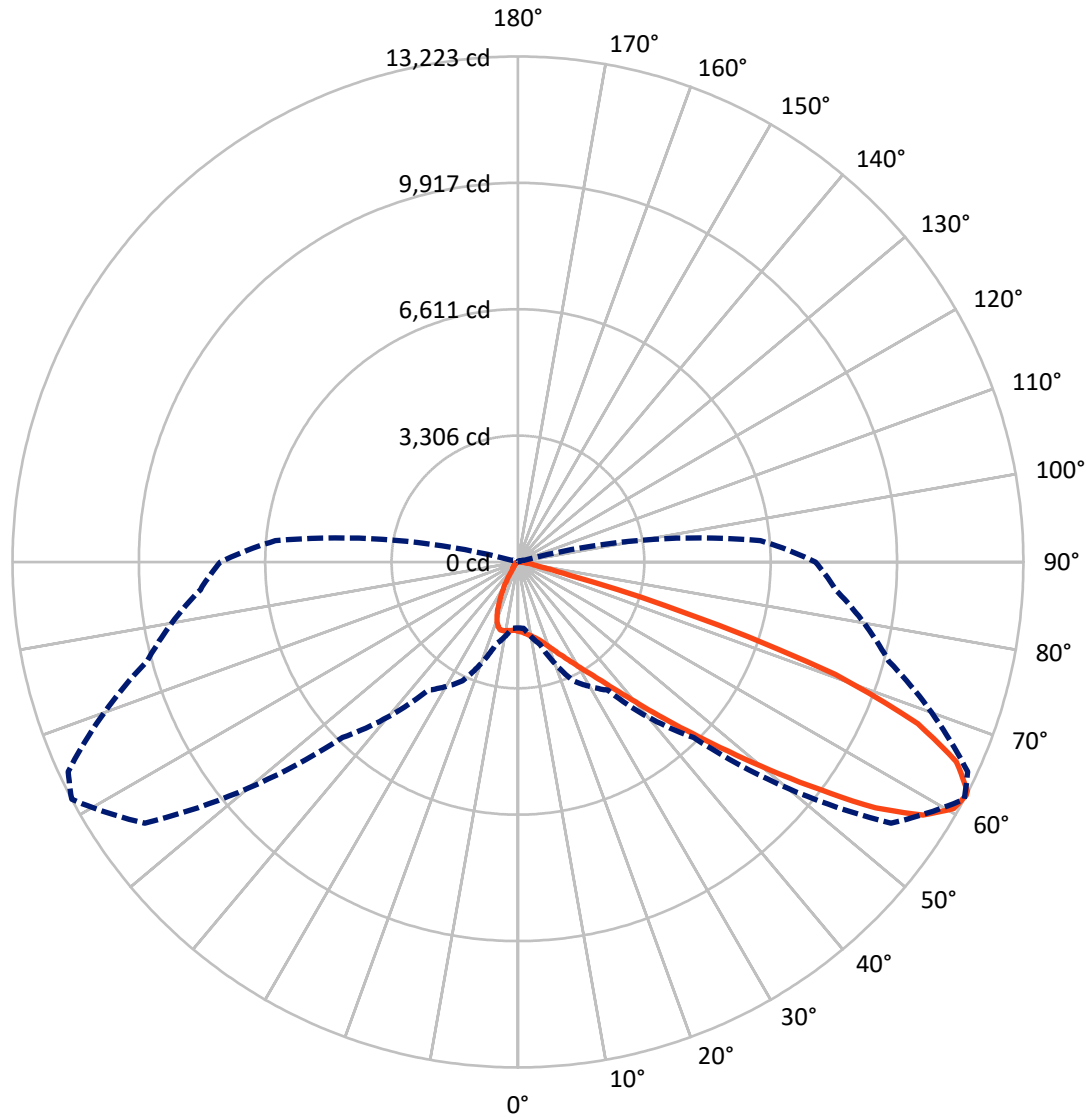
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P258054
CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

REPORT NUMBER: P258054
 CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

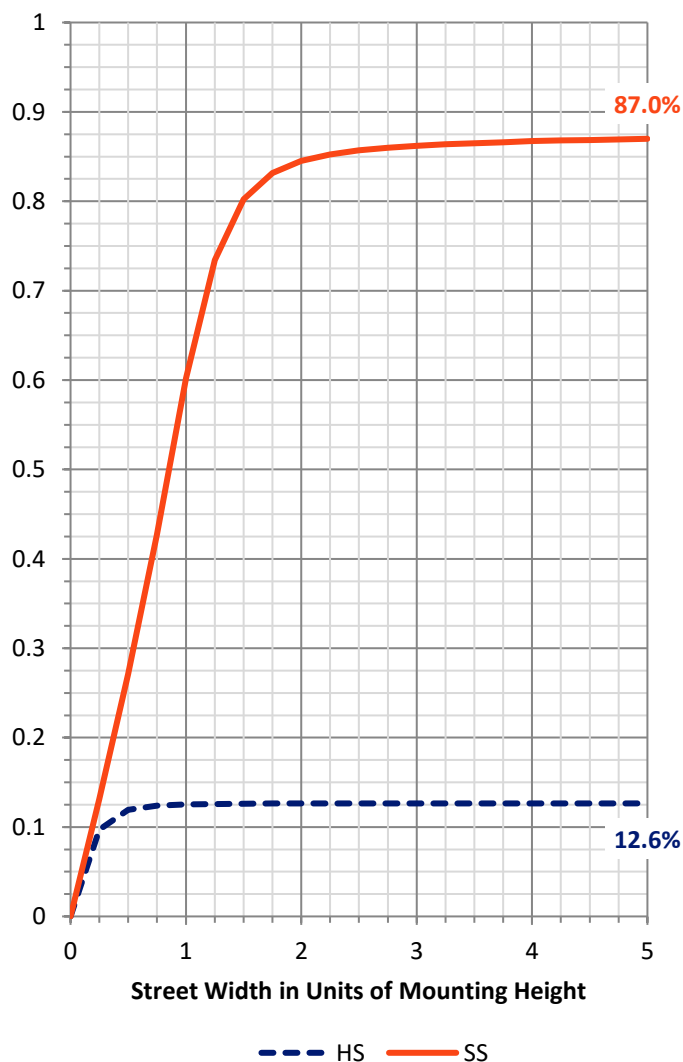
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.2	0.0	1923.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13117.5	0.0	13117.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	15040.7	0.0	15040.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.2
10°-20°	486.9	3.2
20°-30°	817.8	5.4
30°-40°	1567.6	10.4
40°-50°	3201.8	21.3
50°-60°	4237.0	28.2
60°-70°	3291.5	21.9
70°-80°	1188.1	7.9
80°-90°	75.7	0.5
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°	15040.7	100.0
0°-180°	15040.7	100.0

Coefficient of Utilization



REPORT NUMBER: P258054

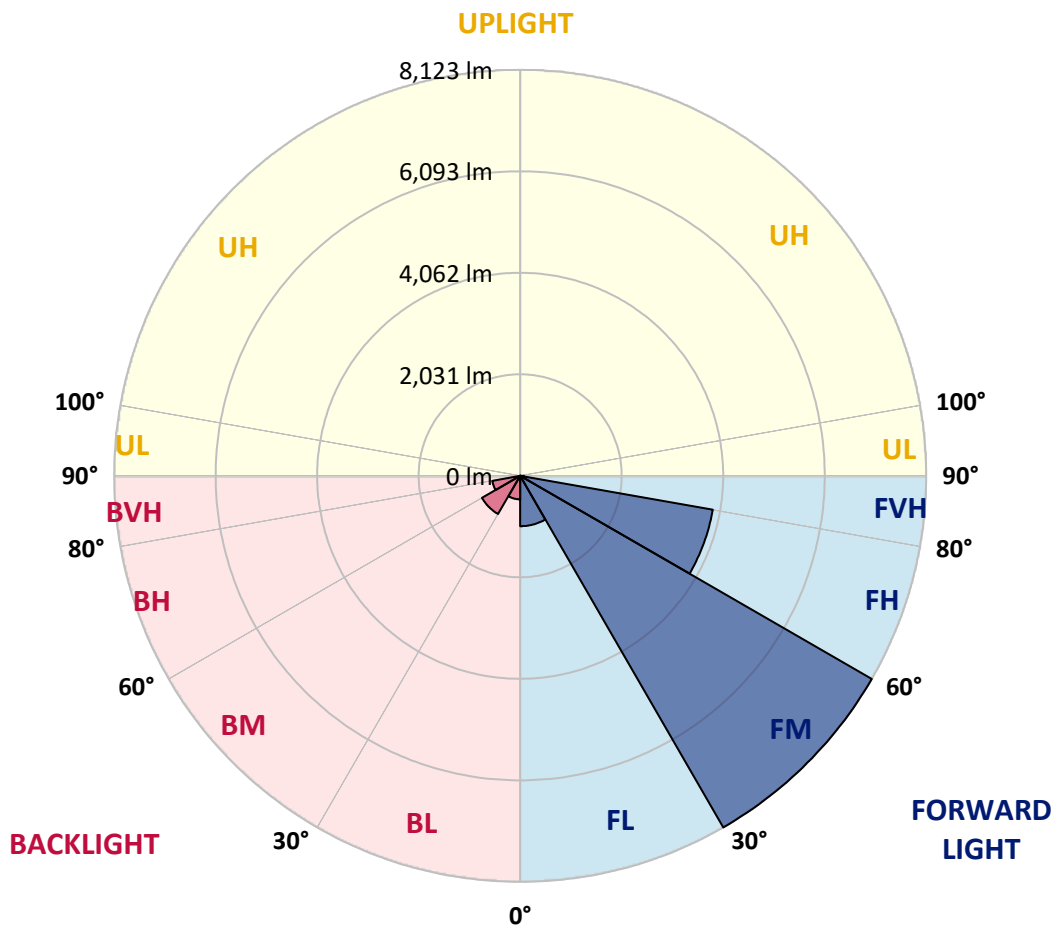
CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.3	6.7			
FM (30°-60°)	8123.5	54.0			
FH (60°-80°)	3913.2	26.0			G2/5000
FVH (80°-90°)	72.4	0.5			G1/100
BL (0°-30°)	470.7	3.1	B1/500		
BM (30°-60°)	882.9	5.9	B1/1000		
BH (60°-80°)	566.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G2

Type II Short





REPORT NUMBER: P258054

CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1859.9	1856.2	1852.5	1848.7	1848.7	1845.2	1841.4	1834.0	1826.6	1819.2	1815.6
5°	1893.1	1889.5	1885.9	1889.5	1885.9	1885.9	1882.1	1874.7	1867.4	1856.2	1845.2
7.5°	1919.0	1915.5	1911.7	1915.5	1919.0	1922.8	1926.5	1919.0	1915.5	1900.6	1889.5
10°	1952.4	1948.6	1945.0	1952.4	1952.4	1970.8	1974.6	1970.8	1967.1	1956.1	1937.6
12.5°	2000.4	2004.2	2004.2	2011.5	2018.9	2041.1	2048.5	2037.3	2037.3	2022.6	2000.4
15°	2089.1	2089.1	2089.1	2096.5	2100.3	2129.8	2137.2	2126.1	2133.5	2107.6	2085.4
17.5°	2174.3	2177.9	2185.3	2200.1	2200.1	2225.9	2240.8	2240.8	2255.5	2222.3	2192.8
20°	2259.3	2263.0	2274.0	2307.3	2307.3	2340.6	2366.4	2377.6	2392.3	2359.1	2307.3
22.5°	2351.7	2351.7	2370.2	2422.0	2410.8	2477.5	2525.5	2544.0	2558.8	2514.4	2433.1
25°	2492.2	2477.5	2492.2	2540.3	2532.8	2625.3	2714.1	2732.6	2751.0	2699.2	2577.2
27.5°	2758.5	2736.3	2684.5	2688.3	2688.3	2795.4	2921.1	2947.0	2958.0	2913.7	2762.2
30°	3290.9	3290.9	3098.6	2969.2	2884.1	2980.3	3157.8	3202.2	3216.9	3150.4	2950.8
32.5°	4219.0	4219.0	3864.1	3535.0	3213.2	3213.2	3416.6	3497.9	3512.8	3435.1	3202.2
35°	5402.3	5394.9	4862.4	4411.3	3782.7	3546.0	3719.8	3856.7	3901.0	3797.5	3527.6
37.5°	6659.5	6611.4	6038.2	5520.6	4659.1	4078.5	4130.2	4311.5	4352.2	4267.1	3949.0
40°	7680.0	7624.5	7162.3	6729.8	5790.5	4928.9	4721.8	4888.3	4936.4	4818.0	4452.0
42.5°	8604.3	8467.6	8149.5	7839.1	7092.0	6400.6	5509.5	5576.0	5627.8	5502.1	5017.7
45°	9273.7	9062.9	8900.1	8804.1	8408.4	8016.5	6530.0	6396.9	6415.3	6260.1	5635.1
47.5°	9292.2	9144.2	9158.9	9410.5	9573.2	9558.3	7857.5	7384.2	7314.0	7055.1	6293.4
50°	8404.8	8489.8	8759.7	9477.0	10357.1	10889.6	9436.4	8552.6	8341.8	7876.0	6947.9
52.5°	6925.6	7058.8	7565.3	8774.5	10471.7	11765.9	11074.4	9887.4	9510.4	8689.4	7450.7
55°	5424.4	5431.9	5964.3	7195.6	9706.3	11924.9	12383.3	11355.5	10778.7	9306.9	7783.5
57.5°	3730.8	3934.3	4611.0	5439.3	7979.5	11133.5	12875.1	12494.4	11751.1	9687.8	8016.5
60°	2444.1	2455.3	3242.9	4200.5	5431.9	9059.2	12575.6	13097.0	12538.7	9913.3	8175.5
62°	1723.1	1741.6	2229.7	3431.4	4093.3	6493.1	11913.7	13222.8	12982.4	10046.5	8341.8
62.5°	1597.4	1612.1	2022.6	3239.1	3845.5	5823.7	11677.1	13193.2	13049.0	10090.8	8401.1
65°	1172.2	1172.2	1323.7	2225.9	2817.6	3146.6	9894.8	12605.2	12960.3	10445.8	8622.8
67.5°	905.9	913.3	965.1	1371.9	2126.1	1908.0	6315.5	11281.4	12035.8	10970.8	8748.6
70°	780.2	776.5	813.4	909.6	1534.5	1268.3	2780.6	8804.1	10079.7	10837.8	8634.0
72.5°	576.8	580.5	665.6	798.6	1068.7	824.6	1257.2	4673.8	6537.4	8482.4	7398.9
75°	369.8	373.4	469.6	628.6	769.0	539.8	724.7	1394.0	2677.1	4703.4	4525.9
77.5°	247.7	255.1	306.9	440.0	672.9	336.5	454.8	584.2	806.2	1763.8	1623.3
80°	166.4	166.4	196.0	295.8	425.2	281.1	244.0	388.2	417.8	547.3	273.5
82.5°	110.9	110.9	129.4	196.0	277.3	251.4	147.9	210.8	244.0	273.5	96.1
85°	66.5	66.5	88.7	122.1	181.2	140.5	96.1	118.3	125.7	173.8	51.8
87.5°	40.7	36.9	59.1	85.0	96.1	85.0	62.9	62.9	66.5	96.1	25.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P258054

CATALOG NUMBER: ARCH-L-AF72-180-D-U-T2U-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1808.1	1804.4	1800.7	1793.4	1782.2	1774.9	1767.5	1760.0	1752.6	1752.6	1763.8
5°	1841.4	1830.3	1815.6	1800.7	1778.5	1763.8	1752.6	1737.9	1730.4	1730.4	1734.2
7.5°	1882.1	1870.9	1845.2	1819.2	1786.0	1760.0	1734.2	1700.9	1675.1	1663.9	1675.1
10°	1926.5	1911.7	1874.7	1834.0	1797.1	1730.4	1645.5	1541.8	1453.1	1412.5	1431.0
12.5°	1982.0	1963.4	1919.0	1863.6	1778.5	1615.8	1405.1	1164.7	1013.2	942.9	957.6
15°	2063.3	2037.3	1974.6	1889.5	1700.9	1349.7	1005.7	728.4	588.0	528.9	536.1
17.5°	2159.4	2126.1	2041.1	1882.1	1501.2	972.5	599.1	425.2	366.0	351.3	351.3
20°	2263.0	2218.6	2107.6	1826.6	1198.0	610.1	373.4	325.4	303.2	292.2	292.2
22.5°	2370.2	2311.1	2163.2	1697.3	854.2	380.9	306.9	273.5	247.7	236.6	236.6
25°	2499.7	2422.0	2218.6	1471.6	543.6	306.9	262.6	229.2	203.3	188.6	192.3
27.5°	2651.1	2551.3	2266.7	1190.6	351.3	266.3	218.2	184.8	162.7	155.2	155.2
30°	2810.1	2691.9	2277.7	891.1	284.7	229.2	181.2	151.7	136.8	129.4	129.4
32.5°	3028.3	2873.1	2244.5	591.6	240.4	192.3	151.7	125.7	114.6	110.9	110.9
35°	3316.8	3109.7	2166.8	366.0	203.3	159.0	125.7	110.9	99.9	96.1	96.1
37.5°	3682.8	3438.8	2030.0	251.4	173.8	129.4	107.2	96.1	88.7	85.0	85.0
40°	4171.0	3838.2	1852.5	218.2	147.9	110.9	92.5	85.0	77.7	77.7	77.7
42.5°	4688.7	4322.6	1623.3	192.3	125.7	96.1	81.4	74.0	70.3	66.5	66.5
45°	5254.4	4818.0	1338.5	170.1	107.2	85.0	74.0	62.9	59.1	59.1	59.1
47.5°	5816.4	5328.2	1027.9	147.9	92.5	74.0	62.9	55.5	51.8	48.1	48.1
50°	6393.2	5790.5	754.3	129.4	81.4	66.5	55.5	48.1	40.7	36.9	36.9
52.5°	6811.0	6067.8	551.0	110.9	70.3	55.5	44.4	36.9	29.6	25.9	25.9
55°	7117.9	6237.9	403.0	92.5	62.9	48.1	36.9	29.6	22.2	22.2	18.5
57.5°	7358.3	6319.2	303.2	81.4	55.5	40.7	29.6	22.2	18.5	14.7	14.7
60°	7543.2	6323.0	225.5	66.5	48.1	33.4	22.2	14.7	11.2	11.2	11.2
62°	7787.2	6371.0	184.8	55.5	44.4	29.6	18.5	11.2	7.4	3.8	3.8
62.5°	7857.5	6389.5	177.4	55.5	40.7	25.9	14.7	11.2	7.4	3.8	3.8
65°	8182.9	6422.8	136.8	44.4	33.4	22.2	11.2	7.4	0.0	0.0	0.0
67.5°	8478.6	6371.0	99.9	33.4	25.9	14.7	11.2	3.8	0.0	0.0	0.0
70°	8449.1	6016.1	70.3	22.2	18.5	11.2	7.4	0.0	0.0	0.0	0.0
72.5°	6962.6	4503.6	48.1	18.5	11.2	7.4	3.8	0.0	0.0	0.0	0.0
75°	4204.2	1970.8	33.4	11.2	11.2	7.4	3.8	0.0	0.0	0.0	0.0
77.5°	1379.2	713.7	22.2	7.4	7.4	3.8	3.8	0.0	0.0	0.0	0.0
80°	225.5	118.3	11.2	7.4	7.4	3.8	3.8	0.0	0.0	0.0	0.0
82.5°	70.3	29.6	7.4	7.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0
85°	25.9	11.2	7.4	7.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	7.4	7.4	7.4	3.8	3.8	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)