

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: P237187

Luminaire Tested: **ARCH-L-AF72-140-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237187
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-AF72-140-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA 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: 13359.1 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

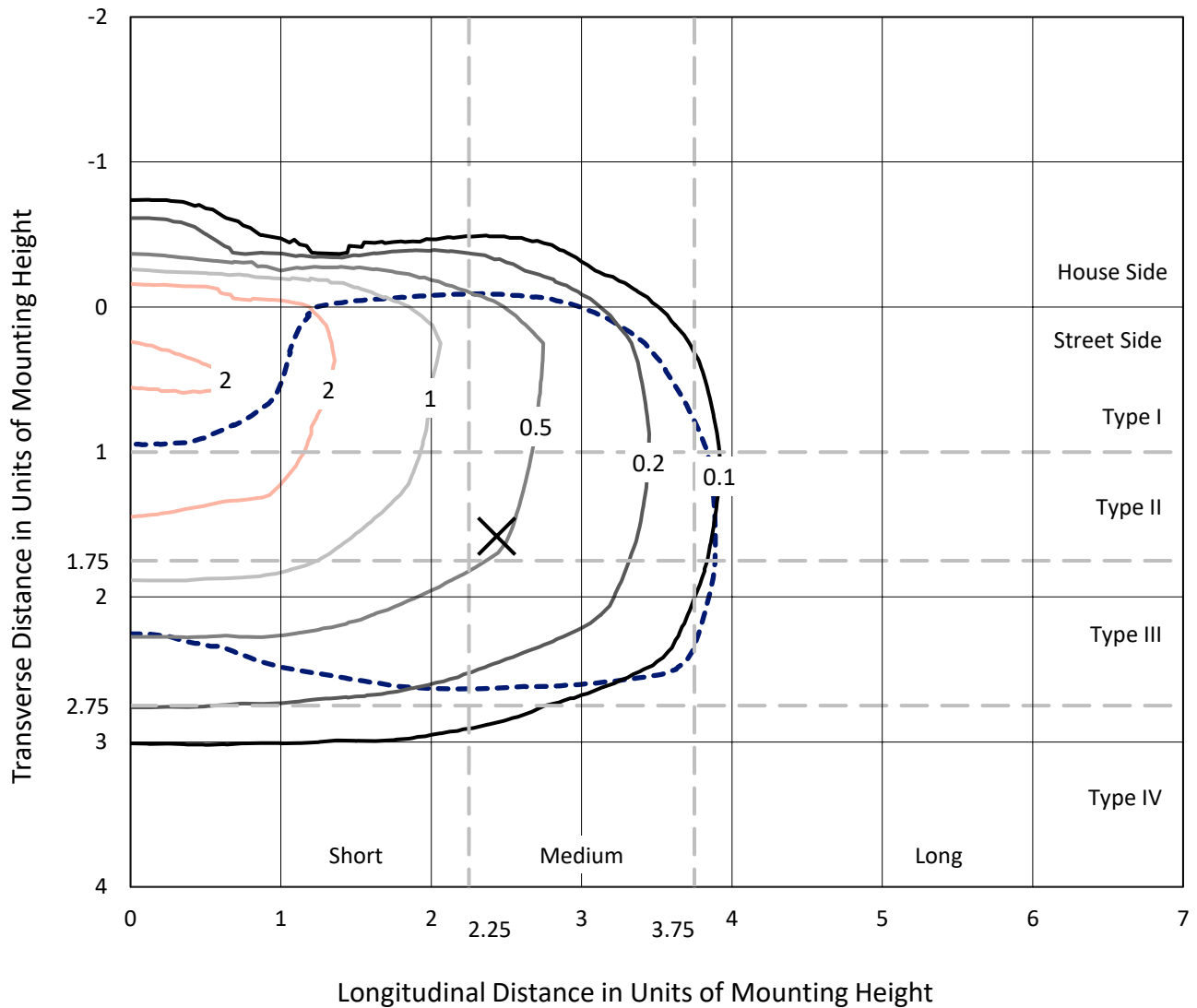
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237187
 CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

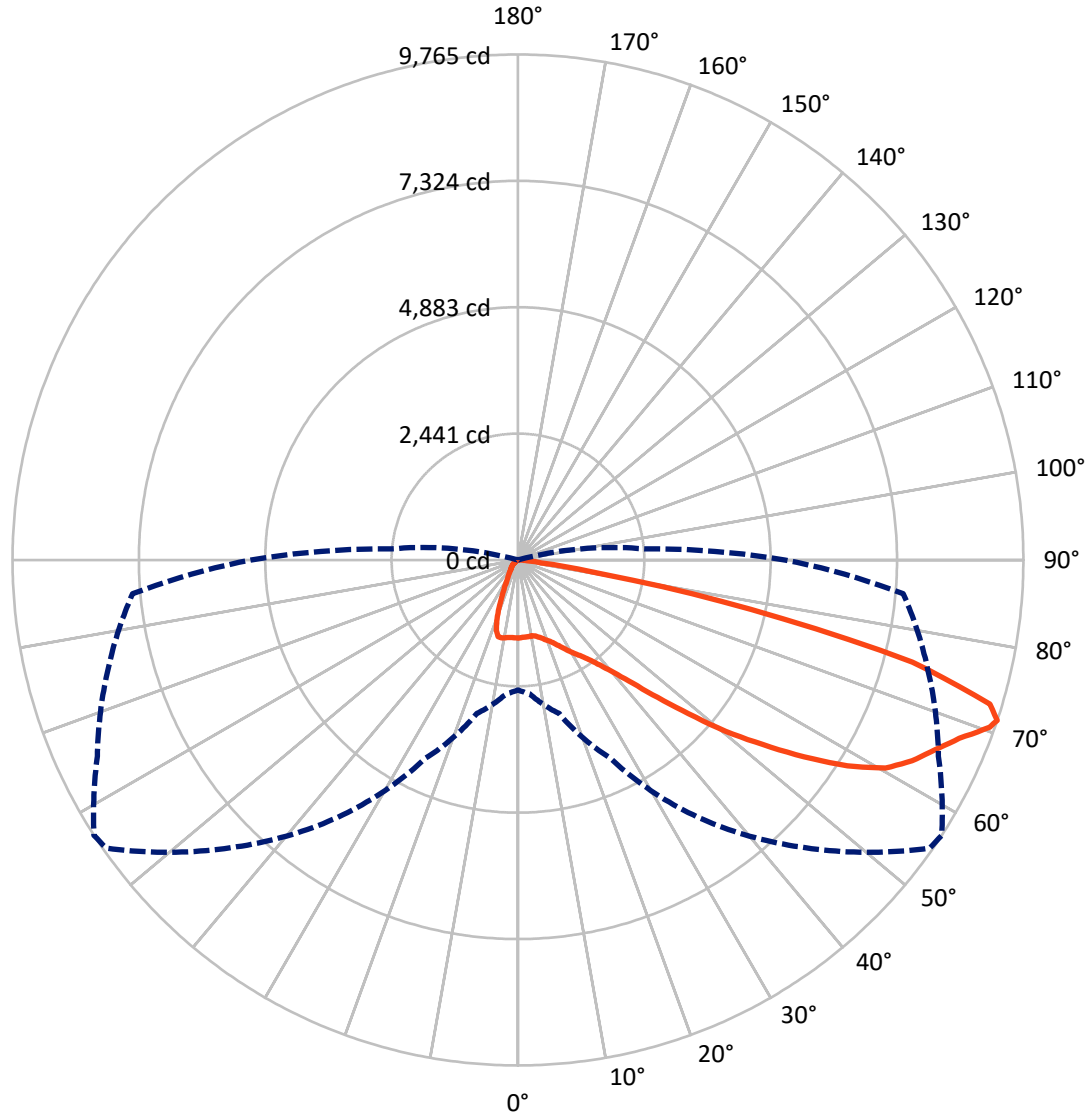
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

REPORT NUMBER: P237187
CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P237187
 CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

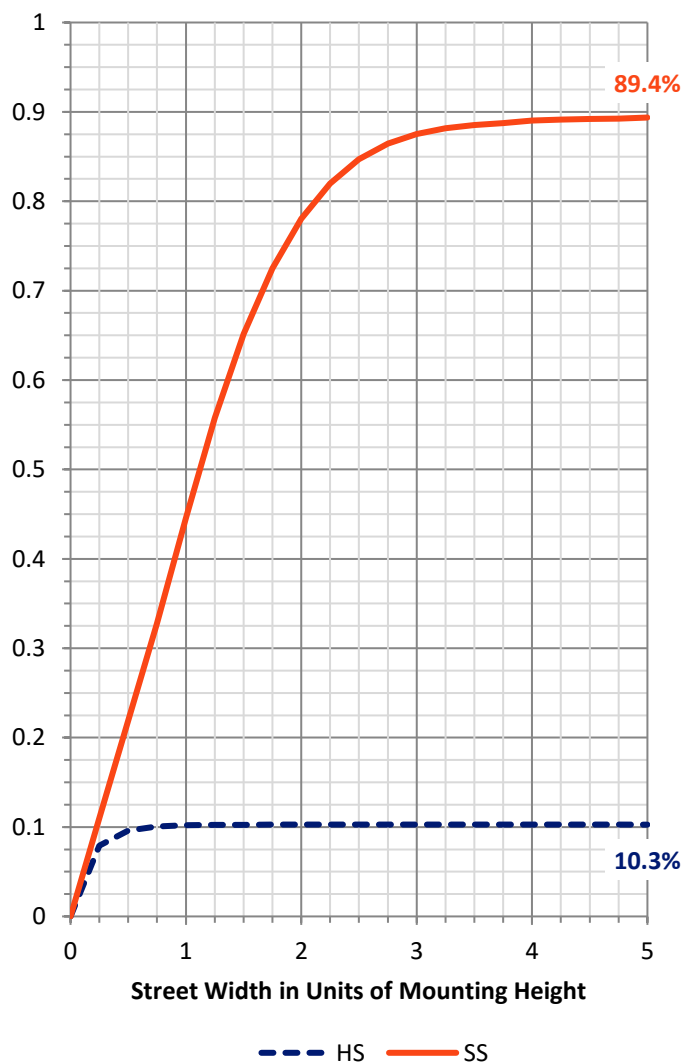
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.4	0.0	1384.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11974.7	0.0	11974.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	13359.1	0.0	13359.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.1
10°-20°	379.1	2.8
20°-30°	591.4	4.4
30°-40°	999.6	7.5
40°-50°	1941.4	14.5
50°-60°	3260.3	24.4
60°-70°	3890.8	29.1
70°-80°	2050.5	15.3
80°-90°	104.2	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°	13359.1	100.0
0°-180°	13359.1	100.0

Coefficient of Utilization



REPORT NUMBER: P237187

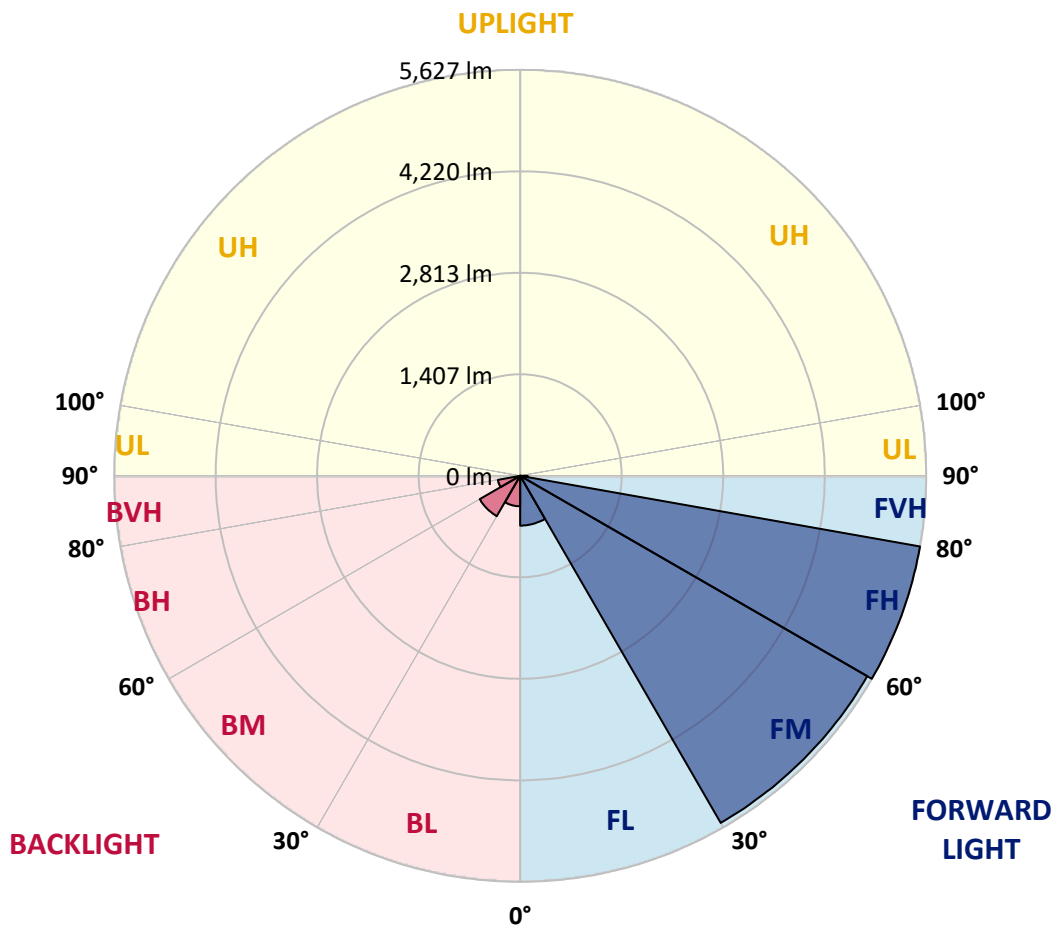
CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.7	5.2			
FM (30°-60°)	5554.8	41.6			
FH (60°-80°)	5627.0	42.1			G3/7500
FVH (80°-90°)	103.2	0.8			G2/225
BL (0°-30°)	422.6	3.2	B1/500		
BM (30°-60°)	646.4	4.8	B1/1000		
BH (60°-80°)	314.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Medium





REPORT NUMBER: P237187

CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1488.0	1488.0	1488.0	1491.1	1494.2	1494.2	1500.4	1497.3	1497.3	1497.3	1503.5
5°	1447.5	1450.6	1453.8	1460.0	1472.4	1481.8	1497.3	1497.3	1500.4	1506.6	1509.8
7.5°	1391.5	1394.5	1404.0	1416.4	1441.3	1463.1	1488.0	1494.2	1503.5	1519.1	1525.4
10°	1357.2	1363.4	1375.9	1391.5	1419.5	1447.5	1478.6	1488.0	1516.0	1544.1	1559.5
12.5°	1347.9	1351.0	1363.4	1388.3	1422.7	1456.9	1497.3	1506.6	1547.1	1590.7	1615.6
15°	1363.4	1366.7	1372.9	1400.8	1441.3	1484.9	1537.9	1550.3	1600.1	1649.9	1681.0
17.5°	1391.5	1391.5	1397.8	1422.7	1466.1	1516.0	1584.5	1603.2	1659.2	1715.3	1749.5
20°	1410.2	1410.2	1419.5	1444.4	1494.2	1559.5	1640.5	1665.4	1727.7	1790.0	1821.2
22.5°	1428.9	1432.0	1441.3	1469.3	1525.4	1615.6	1709.1	1734.0	1805.5	1870.8	1901.9
25°	1481.8	1478.6	1481.8	1506.6	1572.0	1684.1	1802.4	1833.5	1908.2	1979.9	1995.4
27.5°	1628.1	1621.9	1581.4	1565.8	1615.6	1755.7	1920.7	1951.8	2039.0	2110.6	2110.6
30°	1964.3	1951.8	1852.2	1724.5	1684.1	1821.2	2032.8	2076.4	2188.5	2250.6	2231.9
32.5°	2390.7	2362.7	2235.1	2017.2	1855.3	1908.2	2151.1	2200.8	2344.0	2396.9	2356.5
35°	2857.6	2854.6	2695.9	2415.6	2185.3	2088.8	2303.6	2362.7	2543.3	2590.0	2524.7
37.5°	3352.6	3365.0	3259.3	2873.3	2602.4	2384.5	2506.0	2574.3	2795.4	2851.4	2789.2
40°	3903.7	3900.5	3860.0	3402.5	3103.6	2804.8	2798.5	2860.9	3128.5	3215.7	3128.5
42.5°	4600.9	4594.7	4448.4	4037.4	3710.7	3352.6	3225.0	3246.8	3545.7	3688.8	3561.2
45°	5310.6	5267.2	5099.0	4744.1	4454.6	4031.2	3788.4	3788.4	4043.6	4239.8	4040.6
47.5°	5706.1	5662.5	5594.0	5397.9	5310.6	4837.6	4479.5	4435.9	4635.3	4834.4	4554.3
50°	6225.9	6225.9	6054.7	5980.0	6129.5	5796.3	5242.3	5198.7	5295.1	5453.9	5086.6
52.5°	6636.9	6562.1	6440.8	6506.1	6932.6	6780.0	6004.9	5920.9	5995.6	6036.0	5550.4
55°	6808.1	6736.5	6727.1	6966.8	7626.8	7415.1	6786.2	6711.6	6705.4	6506.1	5955.0
57.5°	6842.3	6780.0	6898.3	7318.5	8302.3	7935.0	7564.4	7508.4	7334.1	6836.1	6369.2
60°	6552.9	6583.9	6870.3	7511.6	8700.8	8386.3	8221.3	8162.2	7760.5	7116.3	6829.8
62.5°	5958.2	6032.9	6568.3	7530.2	8554.5	8570.0	8585.5	8545.0	8090.5	7371.5	7293.7
65°	5254.8	5276.4	5920.9	7271.9	8299.2	8513.9	8853.3	8850.1	8342.7	7657.9	7816.6
67.5°	4330.2	4367.5	4924.8	6400.2	7788.6	8489.0	9205.0	9195.7	8629.1	7984.7	8127.9
70°	3221.9	3268.6	3720.0	4977.7	6649.3	8177.7	9665.7	9671.9	8931.1	8233.8	7913.1
71°	2512.2	2596.2	3069.4	4227.3	6067.1	7863.3	9709.4	9765.4	8965.3	8199.6	7471.1
72.5°	1232.8	1332.3	1926.9	2976.0	4993.1	7159.8	9422.9	9531.9	8750.6	7773.0	6387.9
75°	320.6	339.4	575.9	1217.1	2677.2	4744.1	7598.8	7875.7	7153.5	5917.7	3903.7
77.5°	202.3	208.5	270.9	473.2	1002.4	1802.4	4464.0	4600.9	4087.3	2997.7	1375.9
80°	143.2	146.3	171.2	305.1	585.2	526.1	1606.3	1665.4	1478.6	793.8	246.0
82.5°	87.2	87.2	124.5	196.1	361.1	286.4	423.4	451.4	398.5	221.0	81.0
85°	49.8	52.9	77.8	133.9	171.2	140.1	158.8	168.2	171.2	146.3	34.2
87.5°	40.4	43.6	68.5	112.1	93.4	68.5	68.5	71.6	74.8	87.2	15.6
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: P237187

CATALOG NUMBER: ARCH-L-AF72-140-D-U-T3-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1503.5	1503.5	1506.6	1503.5	1503.5	1503.5	1506.6	1506.6	1506.6	1512.9	1516.0
5°	1509.8	1509.8	1509.8	1506.6	1503.5	1503.5	1509.8	1512.9	1512.9	1522.2	1522.2
7.5°	1525.4	1525.4	1519.1	1512.9	1506.6	1497.3	1500.4	1503.5	1500.4	1503.5	1503.5
10°	1559.5	1559.5	1550.3	1537.9	1519.1	1491.1	1453.8	1407.0	1363.4	1347.9	1341.7
12.5°	1615.6	1612.5	1593.9	1572.0	1531.6	1435.1	1294.9	1130.0	993.0	955.7	943.2
15°	1677.9	1671.6	1649.9	1612.5	1503.5	1248.3	955.7	743.9	613.3	582.2	575.9
17.5°	1743.2	1734.0	1702.8	1628.1	1375.9	927.6	616.3	467.0	395.3	389.1	392.2
20°	1811.7	1799.3	1755.7	1597.0	1111.2	619.5	398.5	361.1	354.9	354.9	358.1
22.5°	1889.5	1874.1	1814.9	1484.9	809.4	411.0	342.4	339.4	336.2	333.1	333.1
25°	1979.9	1961.2	1870.8	1282.4	557.2	336.2	326.9	317.5	311.3	305.1	302.0
27.5°	2088.8	2063.9	1914.4	1033.5	382.9	314.4	308.2	292.6	280.1	267.6	267.6
30°	2197.8	2166.6	1901.9	778.3	311.3	292.6	280.1	261.4	242.8	230.3	227.3
32.5°	2312.9	2281.8	1821.2	523.1	283.3	267.6	252.2	224.1	202.3	186.8	183.7
35°	2484.1	2459.2	1662.3	345.6	255.2	236.5	214.8	186.8	158.8	143.2	140.1
37.5°	2739.3	2708.3	1466.1	264.6	224.1	196.1	177.4	146.3	118.3	102.7	99.7
40°	3081.8	2988.5	1232.8	233.5	196.1	161.9	137.0	105.9	84.0	74.8	74.8
42.5°	3480.2	3259.3	980.6	211.6	174.4	133.9	99.7	71.6	59.1	56.0	56.0
45°	3903.7	3511.4	728.4	196.1	152.5	105.9	71.6	49.8	43.6	40.4	40.4
47.5°	4339.4	3716.9	507.4	177.4	127.7	81.0	49.8	37.3	31.1	28.0	28.0
50°	4747.2	3850.8	358.1	158.8	108.9	59.1	37.3	28.0	21.8	21.8	21.8
52.5°	5030.6	3838.3	258.4	137.0	84.0	40.4	24.9	18.7	18.7	18.7	18.7
55°	5279.6	3791.7	202.3	118.3	65.3	28.0	18.7	15.6	15.6	12.4	12.4
57.5°	5491.3	3716.9	171.2	96.4	46.7	21.8	12.4	12.4	9.3	9.3	9.3
60°	5671.7	3623.5	143.2	81.0	31.1	15.6	9.3	6.2	6.2	3.1	6.2
62.5°	5917.7	3564.4	124.5	62.3	21.8	9.3	6.2	3.1	3.1	0.0	0.0
65°	6098.3	3452.3	105.9	43.6	12.4	6.2	3.1	3.1	0.0	0.0	0.0
67.5°	6104.6	3249.9	77.8	24.9	9.3	6.2	3.1	0.0	0.0	0.0	0.0
70°	5612.6	2770.5	49.8	12.4	6.2	3.1	3.1	0.0	0.0	0.0	0.0
71°	5161.3	2453.0	40.4	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	4252.3	1802.4	31.1	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
75°	2344.0	653.7	15.6	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	750.2	199.2	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.7	31.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.6	12.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.1	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)