

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: P258069

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA 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: 12565.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

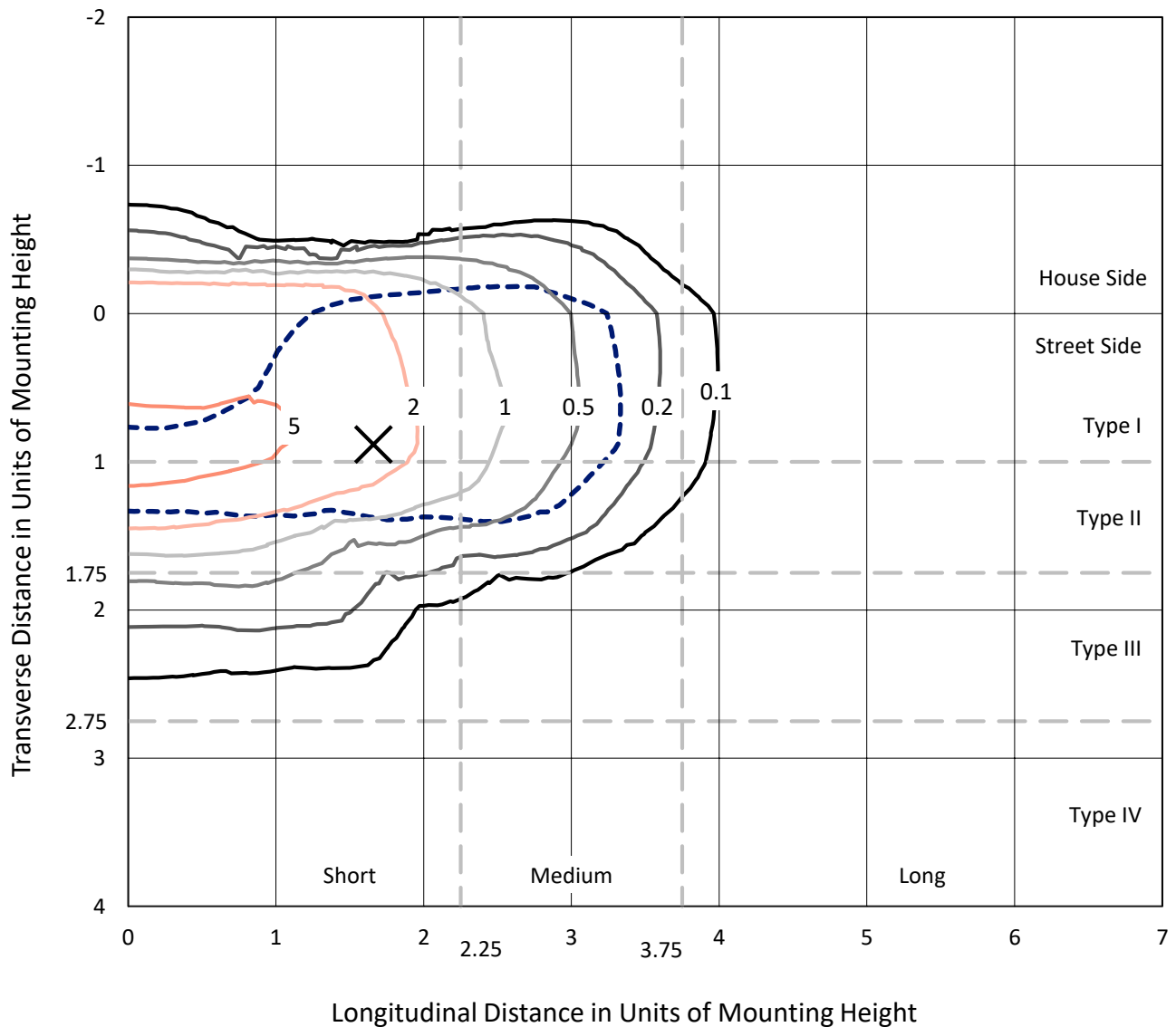
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

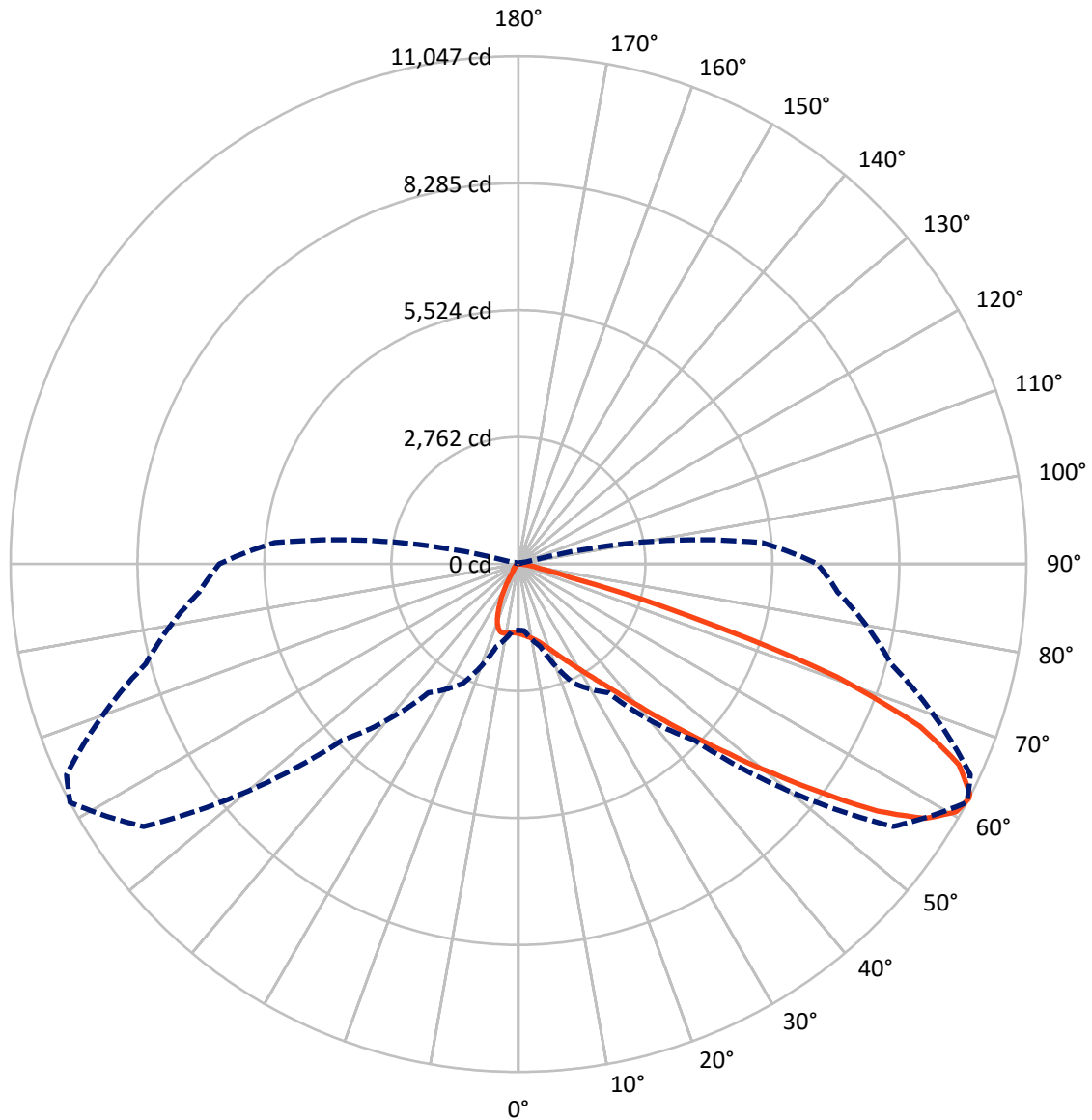
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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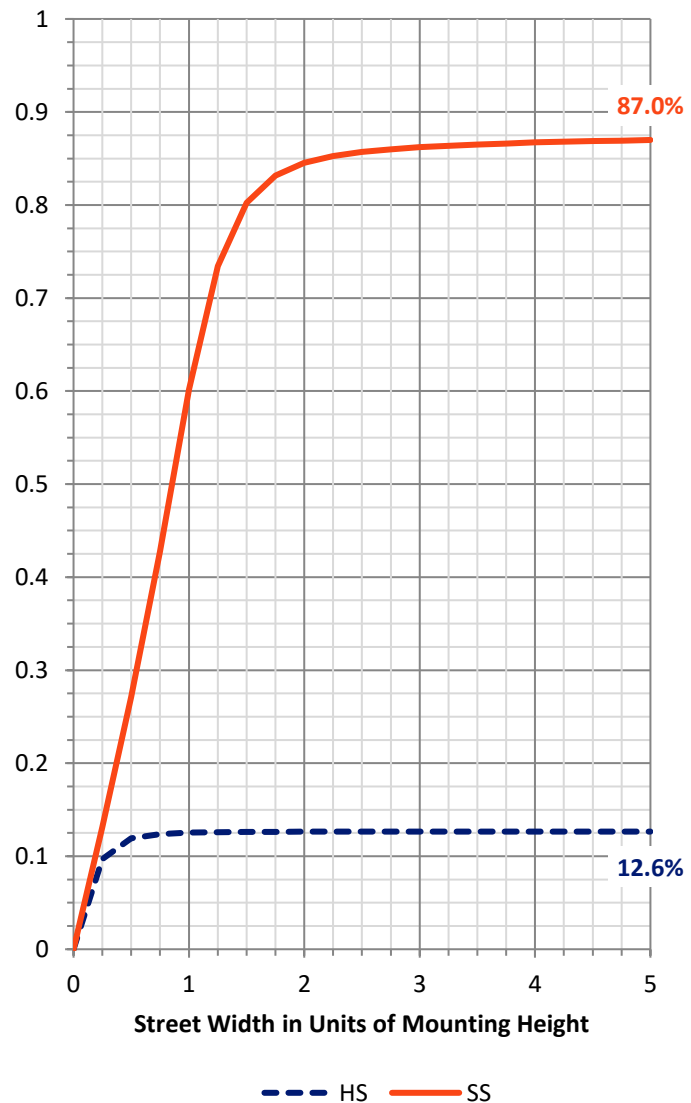
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.7	0.0	1606.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10959.2	0.0	10959.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	12565.9	0.0	12565.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.2
10°-20°	406.8	3.2
20°-30°	683.2	5.4
30°-40°	1309.6	10.4
40°-50°	2675.0	21.3
50°-60°	3539.9	28.2
60°-70°	2749.9	21.9
70°-80°	992.6	7.9
80°-90°	63.3	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°	12565.9	100.0
0°-180°	12565.9	100.0



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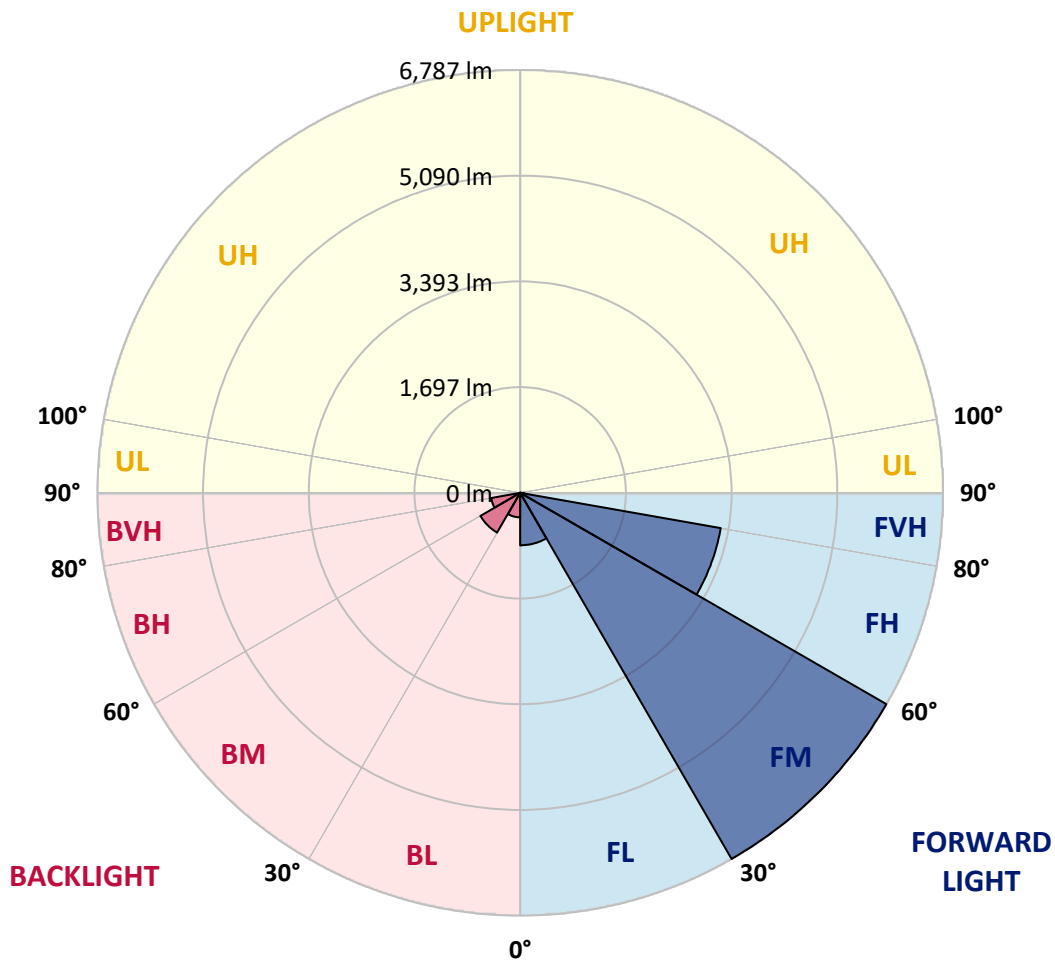
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.4	6.7			
FM (30°-60°)	6786.9	54.0			
FH (60°-80°)	3269.4	26.0			G2/5000
FVH (80°-90°)	60.5	0.5			G1/100
BL (0°-30°)	393.2	3.1	B1/500		
BM (30°-60°)	737.6	5.9	B1/1000		
BH (60°-80°)	473.1	3.8	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1553.9	1550.8	1547.7	1544.7	1544.7	1541.5	1538.4	1532.3	1526.0	1519.9	1516.8
5°	1581.7	1578.6	1575.5	1578.6	1575.5	1575.5	1572.4	1566.2	1560.1	1550.8	1541.5
7.5°	1603.3	1600.2	1597.1	1600.2	1603.3	1606.4	1609.5	1603.3	1600.2	1587.8	1578.6
10°	1631.1	1628.0	1625.0	1631.1	1631.1	1646.5	1649.6	1646.5	1643.5	1634.2	1618.7
12.5°	1671.3	1674.4	1674.4	1680.5	1686.7	1705.3	1711.4	1702.2	1702.2	1689.8	1671.3
15°	1745.5	1745.5	1745.5	1751.6	1754.7	1779.4	1785.6	1776.4	1782.5	1760.9	1742.3
17.5°	1816.5	1819.5	1825.8	1838.1	1838.1	1859.7	1872.1	1872.1	1884.5	1856.7	1831.9
20°	1887.5	1890.6	1899.9	1927.6	1927.6	1955.5	1977.2	1986.4	1998.7	1970.9	1927.6
22.5°	1964.8	1964.8	1980.2	2023.5	2014.2	2069.8	2109.9	2125.4	2137.8	2100.7	2032.7
25°	2082.1	2069.8	2082.1	2122.3	2116.2	2193.4	2267.5	2282.9	2298.4	2255.2	2153.2
27.5°	2304.6	2286.1	2242.8	2245.9	2245.9	2335.5	2440.5	2462.1	2471.3	2434.3	2307.7
30°	2749.4	2749.4	2588.8	2480.7	2409.6	2490.0	2638.2	2675.3	2687.6	2632.1	2465.2
32.5°	3524.8	3524.8	3228.2	2953.4	2684.5	2684.5	2854.4	2922.5	2934.7	2869.9	2675.3
35°	4513.4	4507.2	4062.3	3685.5	3160.3	2962.6	3107.8	3222.1	3259.1	3172.7	2947.1
37.5°	5563.7	5523.5	5044.8	4612.3	3892.4	3407.4	3450.7	3602.0	3636.1	3565.0	3299.3
40°	6416.4	6370.0	5983.9	5622.4	4837.7	4118.0	3945.0	4084.0	4124.1	4025.3	3719.4
42.5°	7188.7	7074.4	6808.7	6549.2	5925.1	5347.5	4603.0	4658.6	4701.8	4596.8	4192.2
45°	7747.8	7571.8	7435.8	7355.5	7024.9	6697.5	5455.6	5344.4	5359.9	5230.0	4708.0
47.5°	7763.3	7639.7	7652.1	7862.1	7998.0	7985.7	6564.7	6169.2	6110.5	5894.2	5257.9
50°	7021.8	7092.9	7318.4	7917.7	8652.9	9097.8	7883.8	7145.4	6969.4	6580.1	5804.7
52.5°	5786.1	5897.4	6320.6	7330.8	8748.8	9829.9	9252.3	8260.6	7945.6	7259.7	6224.9
55°	4531.9	4538.1	4983.0	6011.7	8109.2	9962.8	10345.9	9487.1	9005.1	7775.7	6502.9
57.5°	3117.0	3286.9	3852.3	4544.3	6666.6	9301.7	10756.7	10438.6	9817.7	8093.8	6697.5
60°	2042.0	2051.2	2709.3	3509.3	4538.1	7568.6	10506.5	10942.1	10475.6	8282.2	6830.3
62°	1439.6	1455.0	1862.8	2866.8	3419.8	5424.7	9953.5	11047.2	10846.3	8393.5	6969.4
62.5°	1334.5	1346.9	1689.8	2706.2	3212.8	4865.6	9755.9	11022.4	10901.9	8430.5	7018.8
65°	979.3	979.3	1105.9	1859.7	2354.0	2629.0	8266.8	10531.3	10827.8	8727.1	7204.1
67.5°	756.9	763.0	806.3	1146.1	1776.4	1594.1	5276.4	9425.3	10055.5	9165.7	7309.2
70°	651.8	648.8	679.6	760.0	1282.1	1059.6	2323.1	7355.5	8421.2	9054.5	7213.3
72.5°	481.9	485.0	556.1	667.3	892.8	688.9	1050.4	3904.8	5461.7	7086.7	6181.6
75°	308.9	312.0	392.3	525.2	642.5	451.0	605.5	1164.6	2236.6	3929.6	3781.2
77.5°	206.9	213.2	256.5	367.6	562.2	281.1	380.0	488.0	673.4	1473.6	1356.2
80°	139.0	139.0	163.8	247.1	355.3	234.8	203.9	324.4	349.1	457.3	228.6
82.5°	92.7	92.7	108.1	163.8	231.7	210.1	123.6	176.0	203.9	228.6	80.3
85°	55.6	55.6	74.2	102.0	151.4	117.4	80.3	98.8	105.1	145.2	43.3
87.5°	34.0	30.9	49.4	71.1	80.3	71.1	52.5	52.5	55.6	80.3	21.6
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°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1510.6	1507.5	1504.5	1498.3	1489.0	1482.9	1476.6	1470.5	1464.3	1464.3	1473.6
5°	1538.4	1529.2	1516.8	1504.5	1485.9	1473.6	1464.3	1452.0	1445.7	1445.7	1448.8
7.5°	1572.4	1563.2	1541.5	1519.9	1492.1	1470.5	1448.8	1421.1	1399.4	1390.2	1399.4
10°	1609.5	1597.1	1566.2	1532.3	1501.4	1445.7	1374.7	1288.2	1214.0	1180.1	1195.5
12.5°	1655.9	1640.4	1603.3	1556.9	1485.9	1350.0	1173.9	973.1	846.5	787.8	800.2
15°	1723.8	1702.2	1649.6	1578.6	1421.1	1127.6	840.3	608.6	491.2	441.8	448.0
17.5°	1804.1	1776.4	1705.3	1572.4	1254.2	812.4	500.4	355.3	305.9	293.5	293.5
20°	1890.6	1853.6	1760.9	1526.0	1001.0	509.7	312.0	271.9	253.3	244.1	244.1
22.5°	1980.2	1930.8	1807.2	1417.9	713.6	318.2	256.5	228.6	206.9	197.7	197.7
25°	2088.4	2023.5	1853.6	1229.5	454.1	256.5	219.3	191.5	169.9	157.5	160.6
27.5°	2215.0	2131.6	1893.7	994.7	293.5	222.4	182.3	154.5	136.0	129.7	129.7
30°	2347.9	2249.0	1903.0	744.5	237.8	191.5	151.4	126.6	114.3	108.1	108.1
32.5°	2530.1	2400.4	1875.2	494.3	200.8	160.6	126.6	105.1	95.7	92.7	92.7
35°	2771.1	2598.1	1810.3	305.9	169.9	132.9	105.1	92.7	83.4	80.3	80.3
37.5°	3076.9	2873.0	1696.0	210.1	145.2	108.1	89.6	80.3	74.2	71.1	71.1
40°	3484.7	3206.6	1547.7	182.3	123.6	92.7	77.2	71.1	64.9	64.9	64.9
42.5°	3917.2	3611.3	1356.2	160.6	105.1	80.3	67.9	61.8	58.7	55.6	55.6
45°	4389.8	4025.3	1118.3	142.1	89.6	71.1	61.8	52.5	49.4	49.4	49.4
47.5°	4859.4	4451.6	858.8	123.6	77.2	61.8	52.5	46.3	43.3	40.2	40.2
50°	5341.3	4837.7	630.2	108.1	67.9	55.6	46.3	40.2	34.0	30.9	30.9
52.5°	5690.4	5069.4	460.3	92.7	58.7	46.3	37.0	30.9	24.8	21.6	21.6
55°	5946.8	5211.5	336.8	77.2	52.5	40.2	30.9	24.8	18.5	18.5	15.4
57.5°	6147.6	5279.6	253.3	67.9	46.3	34.0	24.8	18.5	15.4	12.4	12.4
60°	6302.1	5282.6	188.4	55.6	40.2	27.8	18.5	12.4	9.3	9.3	9.3
62°	6506.0	5322.7	154.5	46.3	37.0	24.8	15.4	9.3	6.1	3.1	3.1
62.5°	6564.7	5338.2	148.3	46.3	34.0	21.6	12.4	9.3	6.1	3.1	3.1
65°	6836.5	5366.0	114.3	37.0	27.8	18.5	9.3	6.1	0.0	0.0	0.0
67.5°	7083.6	5322.7	83.4	27.8	21.6	12.4	9.3	3.1	0.0	0.0	0.0
70°	7059.0	5026.2	58.7	18.5	15.4	9.3	6.1	0.0	0.0	0.0	0.0
72.5°	5817.0	3762.7	40.2	15.4	9.3	6.1	3.1	0.0	0.0	0.0	0.0
75°	3512.5	1646.5	27.8	9.3	9.3	6.1	3.1	0.0	0.0	0.0	0.0
77.5°	1152.3	596.2	18.5	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0
80°	188.4	98.8	9.3	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0
82.5°	58.7	24.8	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	21.6	9.3	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	6.1	6.1	6.1	3.1	3.1	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)