

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: P572920

Luminaire Tested: **ARCH-S-PA2-130-740-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-740-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11883 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

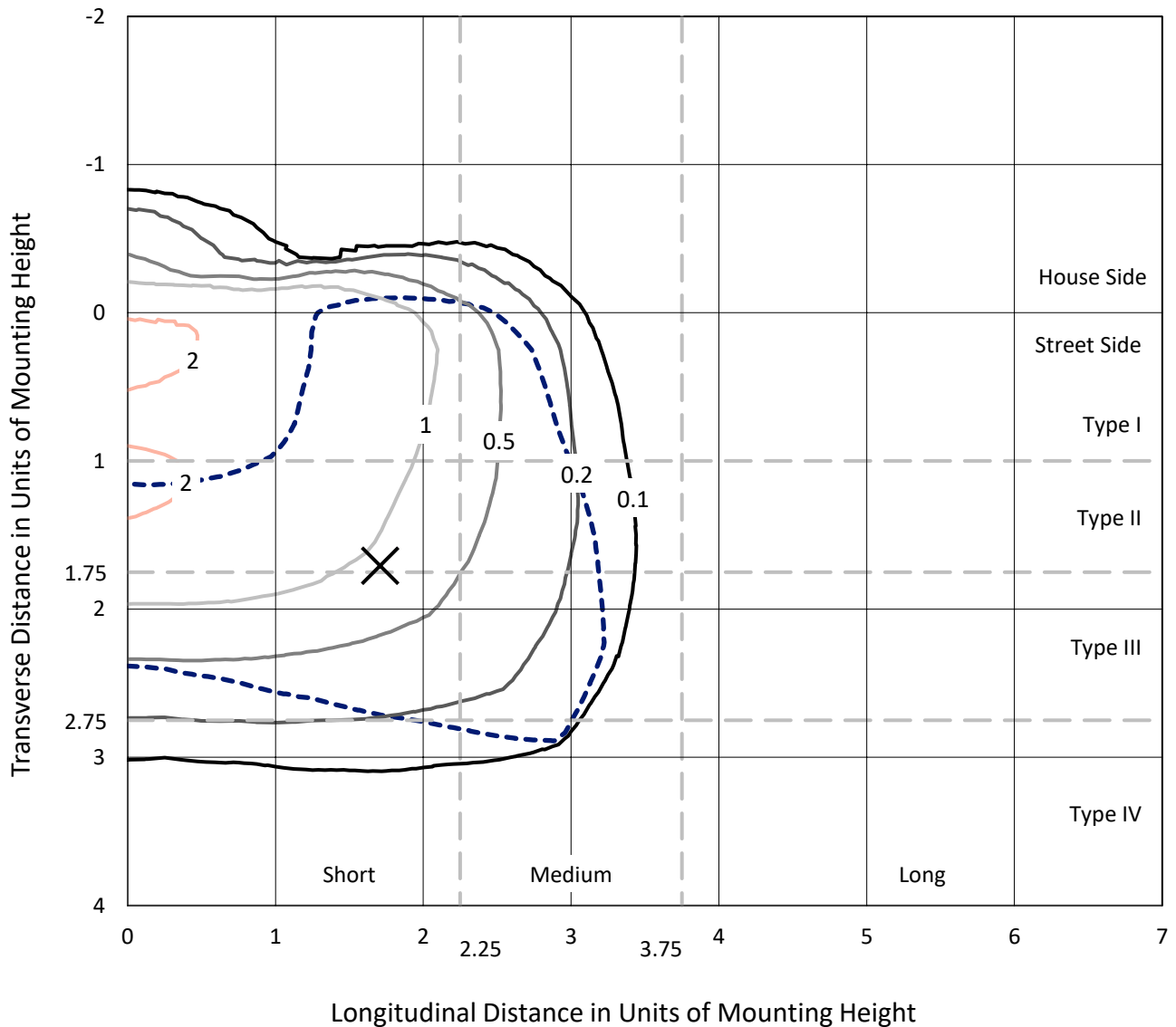
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

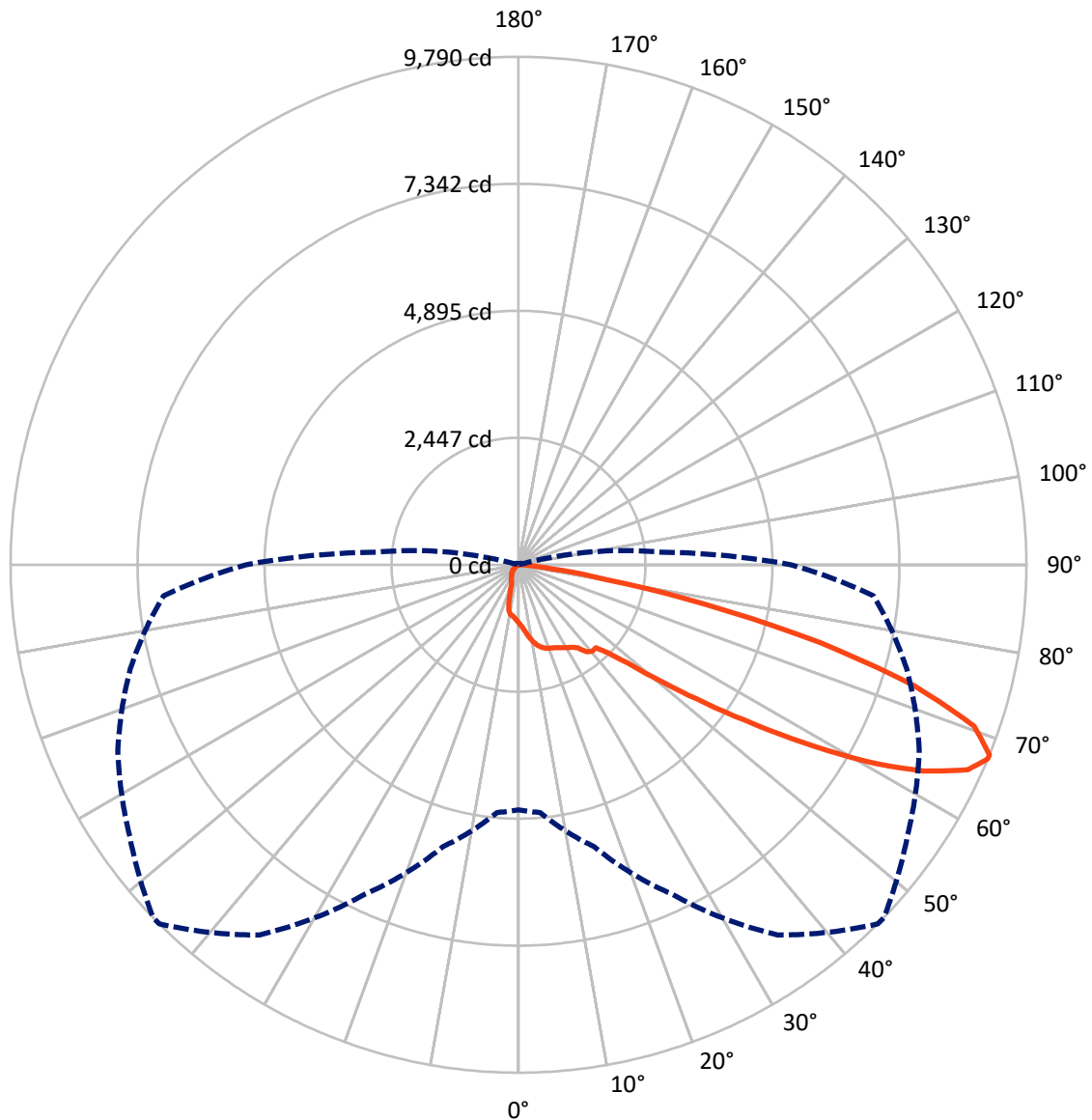
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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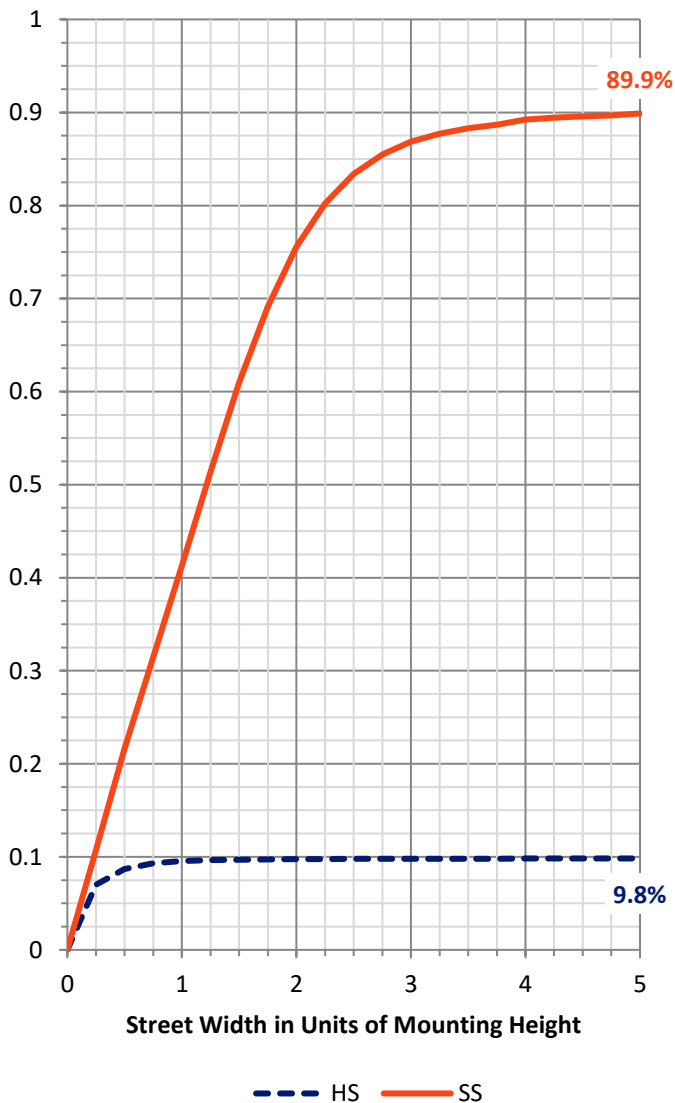
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1177.4	0.0	1177.4
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	10705.6	0.0	10705.6
	% Fixture	90.1	0.0	90.1
Total	Lumens	11883.0	0.0	11883.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	0.9
10°-20°	341.0	2.9
20°-30°	545.4	4.6
30°-40°	785.0	6.6
40°-50°	1377.2	11.6
50°-60°	2901.8	24.4
60°-70°	4012.8	33.8
70°-80°	1679.9	14.1
80°-90°	127.0	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°	11883.0	100.0
0°-180°	11883.0	100.0



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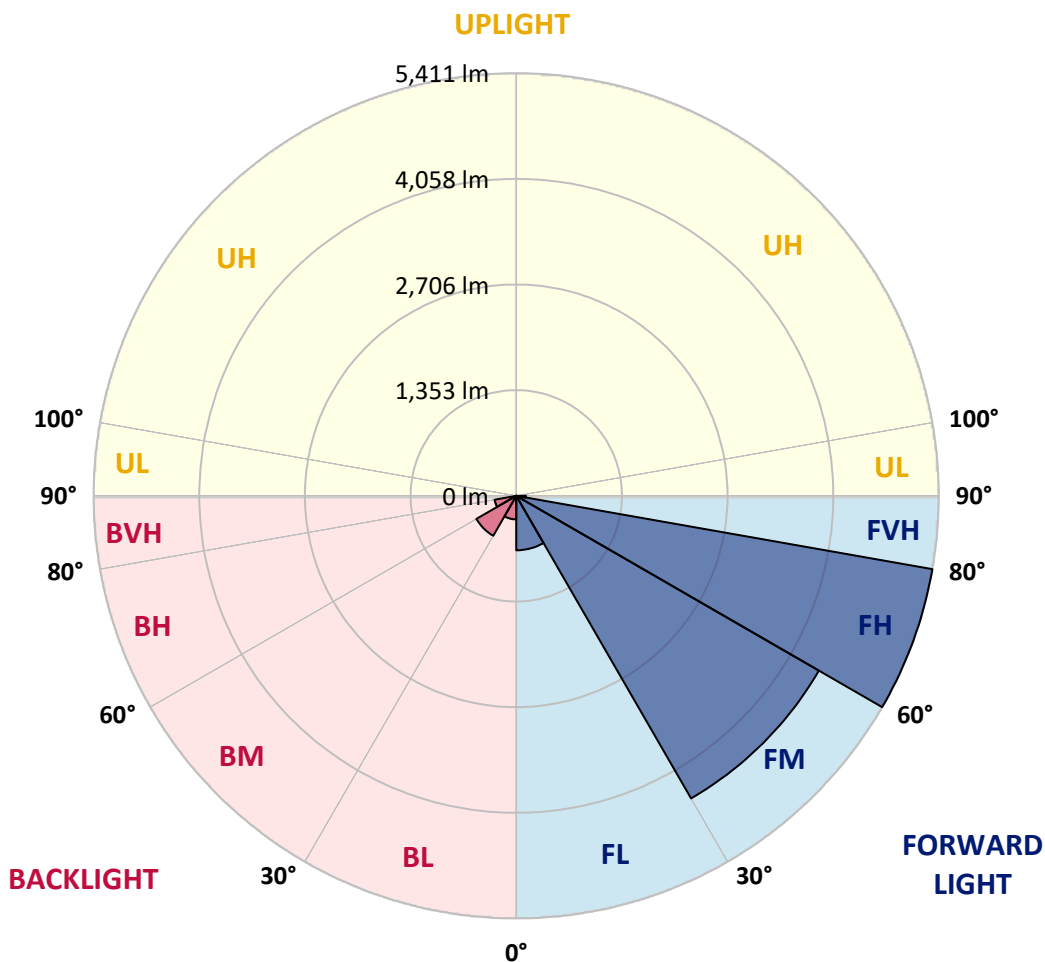
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.5	5.9			
FM (30°-60°)	4474.1	37.7			
FH (60°-80°)	5411.3	45.5			G3/7500
FVH (80°-90°)	122.7	1.0			G2/225
BL (0°-30°)	301.8	2.5	B1/500		
BM (30°-60°)	589.9	5.0	B1/1000		
BH (60°-80°)	281.4	2.4	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8
2.5°	1251.1	1229.2	1224.8	1220.4	1207.2	1189.7	1194.1	1180.9	1158.9	1145.8	1132.6
5°	1404.8	1382.8	1374.0	1347.7	1321.4	1281.8	1281.8	1246.7	1207.2	1172.1	1137.0
7.5°	1562.8	1545.2	1527.7	1488.2	1448.7	1396.0	1391.6	1338.9	1277.5	1224.8	1167.7
10°	1694.5	1681.3	1659.4	1611.1	1558.4	1501.3	1488.2	1439.9	1360.9	1290.6	1216.0
12.5°	1799.9	1786.7	1756.0	1707.7	1641.8	1584.8	1580.4	1518.9	1439.9	1365.3	1273.1
15°	1878.9	1856.9	1821.8	1769.1	1703.3	1650.6	1641.8	1589.1	1514.5	1431.1	1321.4
17.5°	1892.0	1878.9	1848.1	1791.1	1734.0	1690.1	1685.7	1646.2	1580.4	1492.6	1378.4
20°	1856.9	1852.5	1826.2	1782.3	1738.4	1716.4	1712.1	1685.7	1633.0	1554.0	1439.9
22.5°	1804.2	1799.9	1782.3	1760.3	1742.8	1738.4	1738.4	1729.6	1698.9	1624.3	1518.9
25°	1769.1	1764.7	1756.0	1742.8	1742.8	1769.1	1773.5	1782.3	1756.0	1698.9	1584.8
27.5°	1773.5	1764.7	1756.0	1742.8	1760.3	1808.6	1813.0	1835.0	1813.0	1760.3	1659.4
30°	1835.0	1821.8	1795.5	1764.7	1786.7	1852.5	1856.9	1883.3	1865.7	1839.4	1742.8
32.5°	1931.6	1922.8	1870.1	1817.4	1830.6	1896.4	1905.2	1953.5	1975.5	1935.9	1817.4
35°	2072.0	2041.3	1975.5	1922.8	1914.0	1962.3	1975.5	2054.5	2111.5	2015.0	1861.3
37.5°	2186.2	2159.8	2054.5	1971.1	2019.3	2129.1	2133.5	2230.1	2181.8	2023.7	1931.6
40°	2572.5	2568.1	2383.7	2120.3	2067.6	2190.6	2208.1	2225.7	2203.7	2124.7	2085.2
42.5°	3195.8	3143.2	2936.8	2533.0	2173.0	2186.2	2194.9	2287.1	2401.3	2366.2	2379.3
45°	3871.9	3828.0	3595.3	3086.1	2533.0	2423.2	2432.0	2581.3	2800.8	2844.6	2914.9
47.5°	4495.2	4425.0	4293.3	3779.7	3147.6	2827.1	2844.6	3024.6	3389.0	3485.6	3595.3
50°	5022.0	4973.7	4850.8	4512.8	3902.6	3463.6	3481.2	3630.4	4104.5	4258.2	4398.7
52.5°	5785.9	5720.0	5483.0	5324.9	4864.0	4293.3	4253.8	4411.8	4956.2	5057.2	5245.9
55°	6488.3	6352.2	6211.7	6145.8	5952.7	5285.4	5272.3	5303.0	5755.1	5807.8	6145.8
57.5°	6786.8	6760.4	6879.0	7098.5	7142.4	6453.1	6396.1	6277.5	6633.1	6628.7	7023.8
60°	6975.5	6975.5	7291.6	7836.0	8187.1	7699.9	7620.8	7252.1	7379.4	7383.8	7748.2
62.5°	6857.0	6887.7	7379.4	8200.3	8907.1	8757.8	8705.2	8086.2	8077.4	7976.4	8103.7
65°	6123.9	6176.6	6966.8	7998.4	9170.5	9521.7	9499.7	8797.3	8542.7	8174.0	7888.6
67°	4995.7	5092.3	6049.3	7269.7	8872.0	9785.1	9789.5	9104.6	8547.1	7844.7	7129.2
67.5°	4723.5	4793.8	5623.4	7006.3	8709.5	9789.5	9789.5	9144.1	8520.8	7743.8	6865.8
70°	3011.5	3029.0	3933.3	5421.5	7440.9	9315.3	9350.5	8845.6	7761.3	6268.8	4820.1
72.5°	1488.2	1448.7	2076.4	3490.0	5583.9	7972.0	8064.2	7555.0	6141.5	4095.8	2546.1
75°	583.9	623.4	904.3	1856.9	3498.7	6009.8	6080.0	5496.1	3950.9	2111.5	1005.3
77.5°	259.0	259.0	386.3	834.1	1839.4	3687.5	3722.6	3353.9	2085.2	869.2	307.3
80°	140.5	149.3	201.9	364.4	926.3	1694.5	1848.1	1663.8	943.8	381.9	105.4
82.5°	70.2	74.6	122.9	206.3	465.3	640.9	676.0	706.8	434.6	237.1	43.9
85°	26.3	30.7	65.8	118.5	210.7	215.1	215.1	276.6	237.1	180.0	21.9
87.5°	4.4	8.8	30.7	48.3	83.4	74.6	65.8	87.8	131.7	114.1	13.2
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°	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8	1123.8
2.5°	1123.8	1115.0	1097.5	1084.3	1075.5	1066.7	1058.0	1058.0	1053.6	1053.6	1058.0
5°	1123.8	1106.3	1071.1	1049.2	1031.6	1018.5	1009.7	1009.7	1005.3	1009.7	1014.1
7.5°	1145.8	1119.4	1071.1	1031.6	1009.7	987.7	978.9	974.6	974.6	978.9	974.6
10°	1180.9	1145.8	1084.3	1031.6	1000.9	970.2	921.9	878.0	838.5	820.9	816.5
12.5°	1224.8	1180.9	1106.3	1044.8	996.5	891.1	759.5	676.0	623.4	597.0	588.2
15°	1273.1	1220.4	1132.6	1062.4	930.7	733.1	561.9	469.7	439.0	443.4	447.8
17.5°	1325.7	1268.7	1172.1	1053.6	799.0	544.3	412.6	390.7	403.9	417.0	417.0
20°	1378.4	1317.0	1211.6	987.7	627.8	403.9	368.8	373.1	386.3	399.5	399.5
22.5°	1448.7	1382.8	1251.1	873.6	465.3	351.2	351.2	360.0	368.8	381.9	381.9
25°	1523.3	1457.4	1277.5	733.1	346.8	329.2	333.6	342.4	351.2	364.4	364.4
27.5°	1602.3	1536.5	1273.1	566.3	302.9	302.9	307.3	320.5	329.2	342.4	342.4
30°	1690.1	1633.0	1224.8	412.6	281.0	276.6	276.6	289.7	302.9	311.7	316.1
32.5°	1764.7	1716.4	1141.4	311.7	263.4	254.6	250.2	254.6	267.8	276.6	281.0
35°	1826.2	1808.6	1018.5	267.8	245.8	232.7	223.9	219.5	223.9	223.9	228.3
37.5°	1940.3	1944.7	873.6	250.2	232.7	215.1	197.5	184.4	175.6	171.2	166.8
40°	2155.4	2151.0	719.9	237.1	219.5	197.5	171.2	153.6	131.7	122.9	122.9
42.5°	2458.3	2392.5	548.7	223.9	206.3	180.0	144.9	118.5	96.6	92.2	92.2
45°	3002.7	2730.5	412.6	215.1	193.2	158.0	118.5	87.8	74.6	70.2	70.2
47.5°	3604.1	3121.2	329.2	201.9	180.0	140.5	92.2	70.2	57.1	57.1	57.1
50°	4267.0	3494.4	276.6	188.8	158.0	118.5	74.6	57.1	52.7	48.3	52.7
52.5°	4991.3	3788.5	241.4	171.2	136.1	96.6	61.5	52.7	43.9	43.9	43.9
55°	5641.0	3986.0	201.9	149.3	114.1	79.0	57.1	43.9	39.5	35.1	30.7
57.5°	6229.3	4091.4	162.4	127.3	87.8	65.8	48.3	35.1	30.7	21.9	21.9
60°	6532.2	3994.8	127.3	101.0	70.2	52.7	39.5	30.7	21.9	13.2	13.2
62.5°	6580.4	3744.6	101.0	79.0	61.5	43.9	30.7	21.9	13.2	8.8	8.8
65°	6159.0	3305.6	83.4	65.8	48.3	35.1	26.3	17.6	8.8	4.4	4.4
67°	5404.0	2844.6	74.6	57.1	43.9	30.7	21.9	13.2	8.8	4.4	0.0
67.5°	5254.7	2761.2	70.2	57.1	43.9	30.7	21.9	13.2	8.8	4.4	0.0
70°	3450.5	1909.6	65.8	52.7	39.5	26.3	17.6	13.2	4.4	0.0	0.0
72.5°	1883.3	961.4	61.5	48.3	35.1	26.3	17.6	8.8	4.4	0.0	0.0
75°	689.2	364.4	52.7	43.9	30.7	26.3	17.6	8.8	4.4	0.0	0.0
77.5°	232.7	127.3	48.3	43.9	35.1	26.3	17.6	8.8	4.4	0.0	0.0
80°	79.0	57.1	39.5	35.1	26.3	21.9	17.6	8.8	4.4	0.0	0.0
82.5°	30.7	17.6	13.2	13.2	13.2	17.6	17.6	13.2	4.4	0.0	0.0
85°	13.2	8.8	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0	0.0
87.5°	13.2	8.8	4.4	4.4	4.4	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)