

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: P573576

Luminaire Tested: **ARCH-S-PA2-90-750-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-90-750-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12838 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

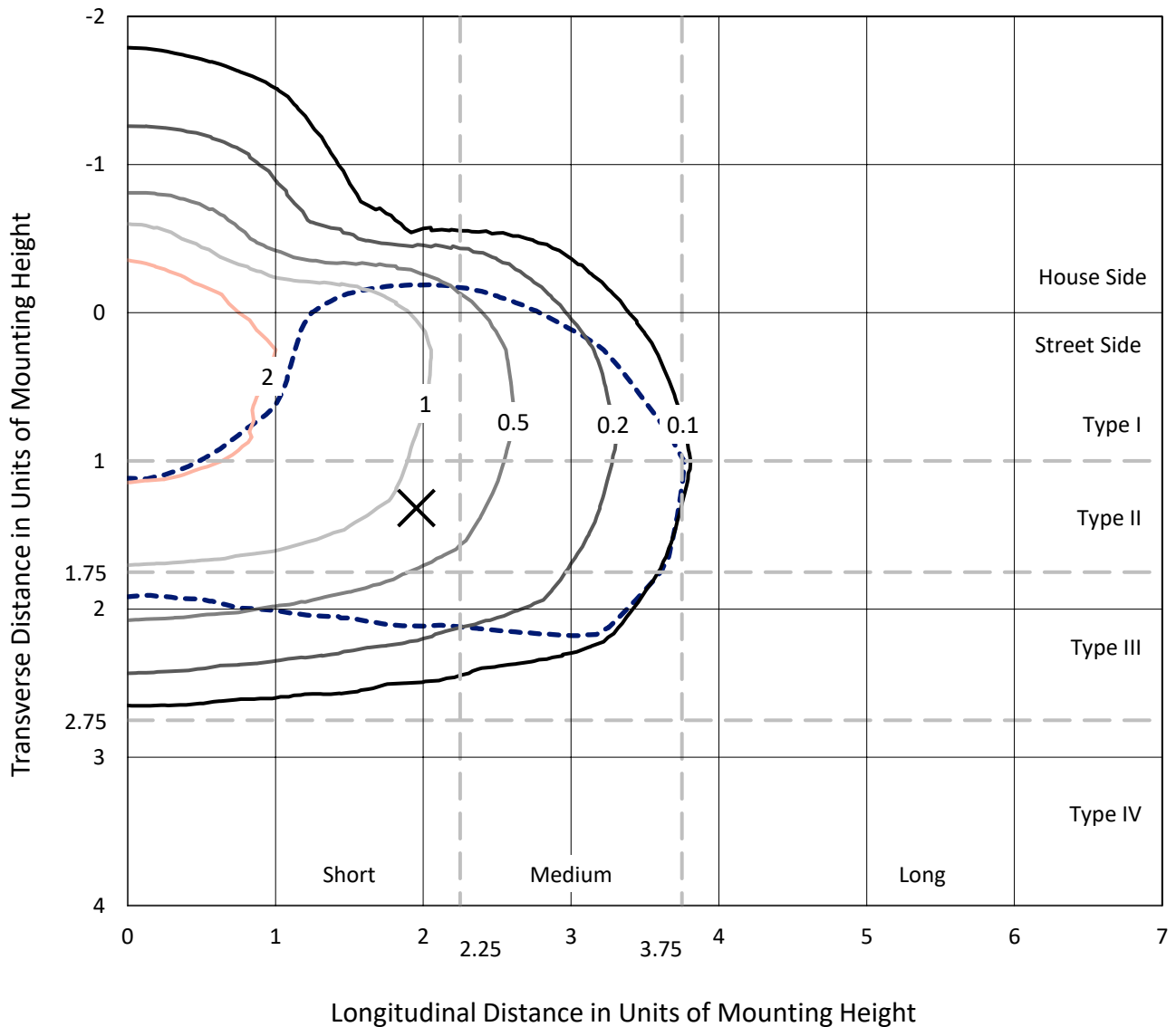
Input Watts (W): 92.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

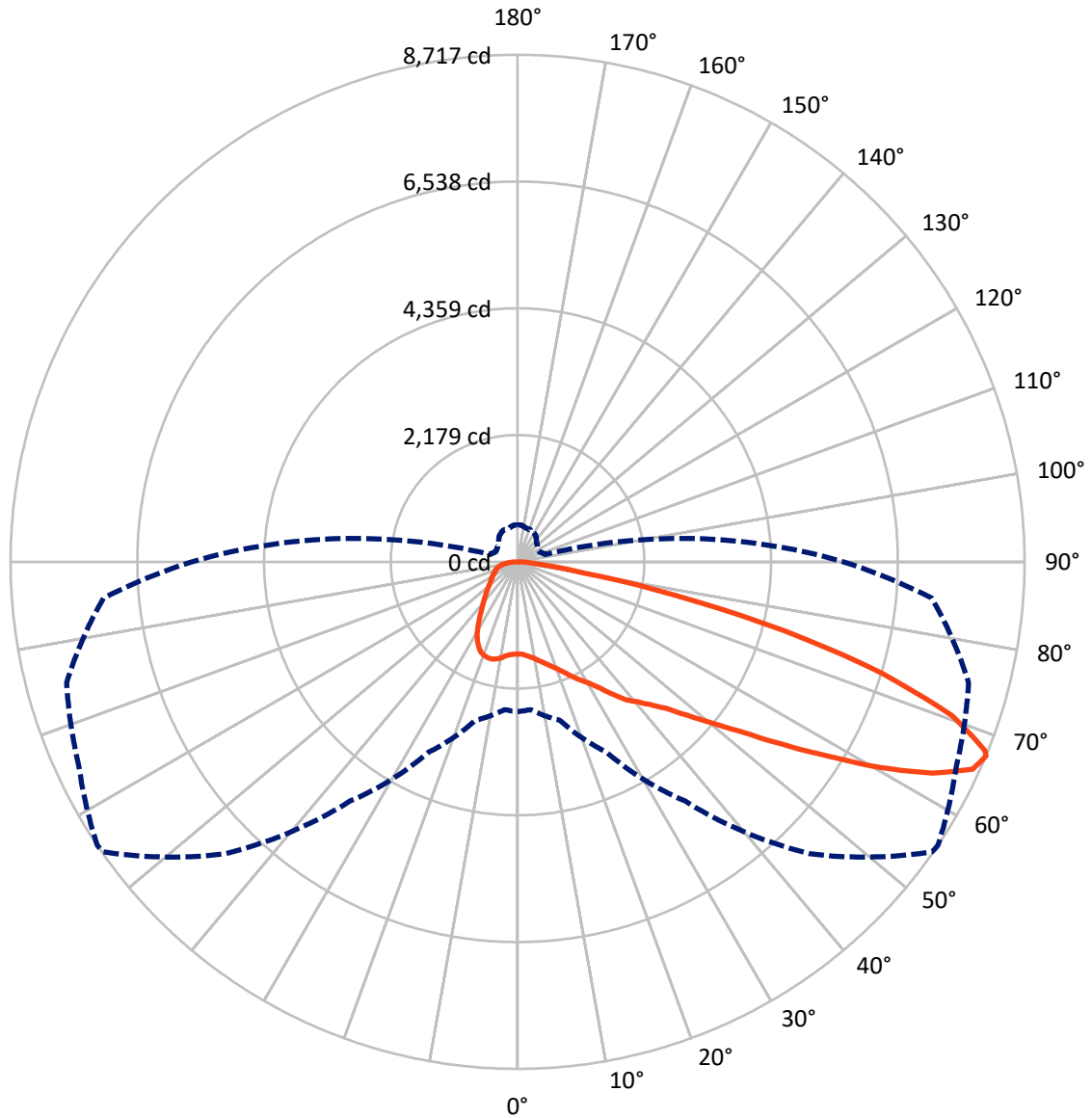
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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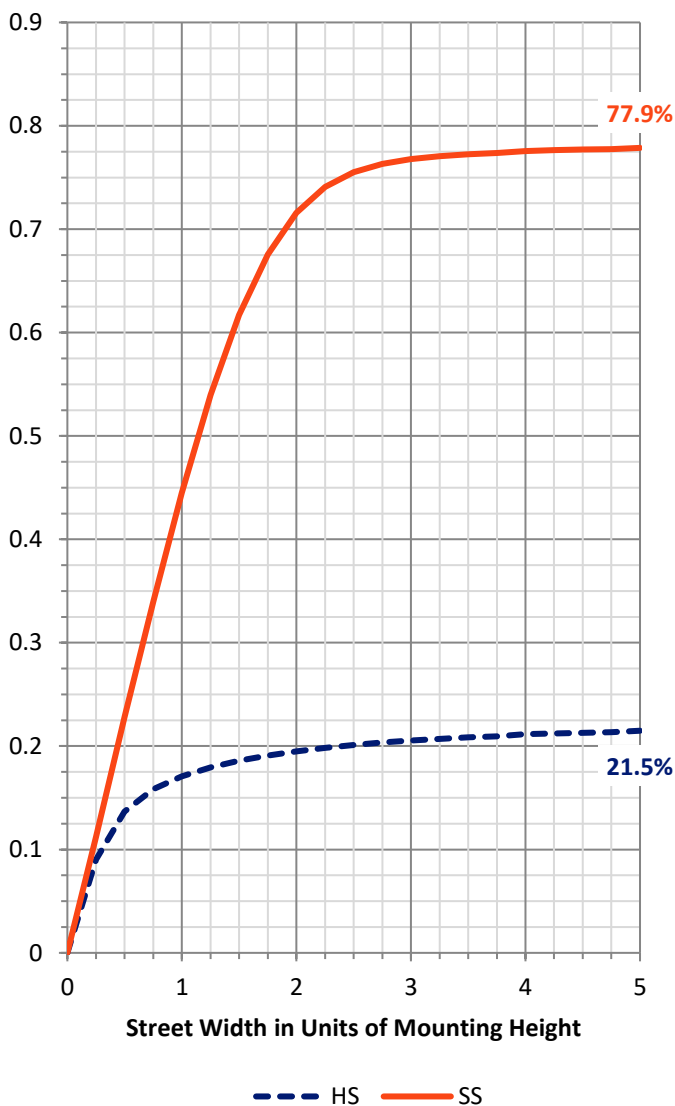
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2808.7	0.0	2808.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	10029.3	0.0	10029.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	12838.0	0.0	12838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	1.2
10°-20°	500.1	3.9
20°-30°	870.3	6.8
30°-40°	1276.1	9.9
40°-50°	1867.1	14.5
50°-60°	2918.1	22.7
60°-70°	3468.3	27.0
70°-80°	1579.6	12.3
80°-90°	202.5	1.6
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°	12838.0	100.0
0°-180°	12838.0	100.0

**Coefficient of Utilization**



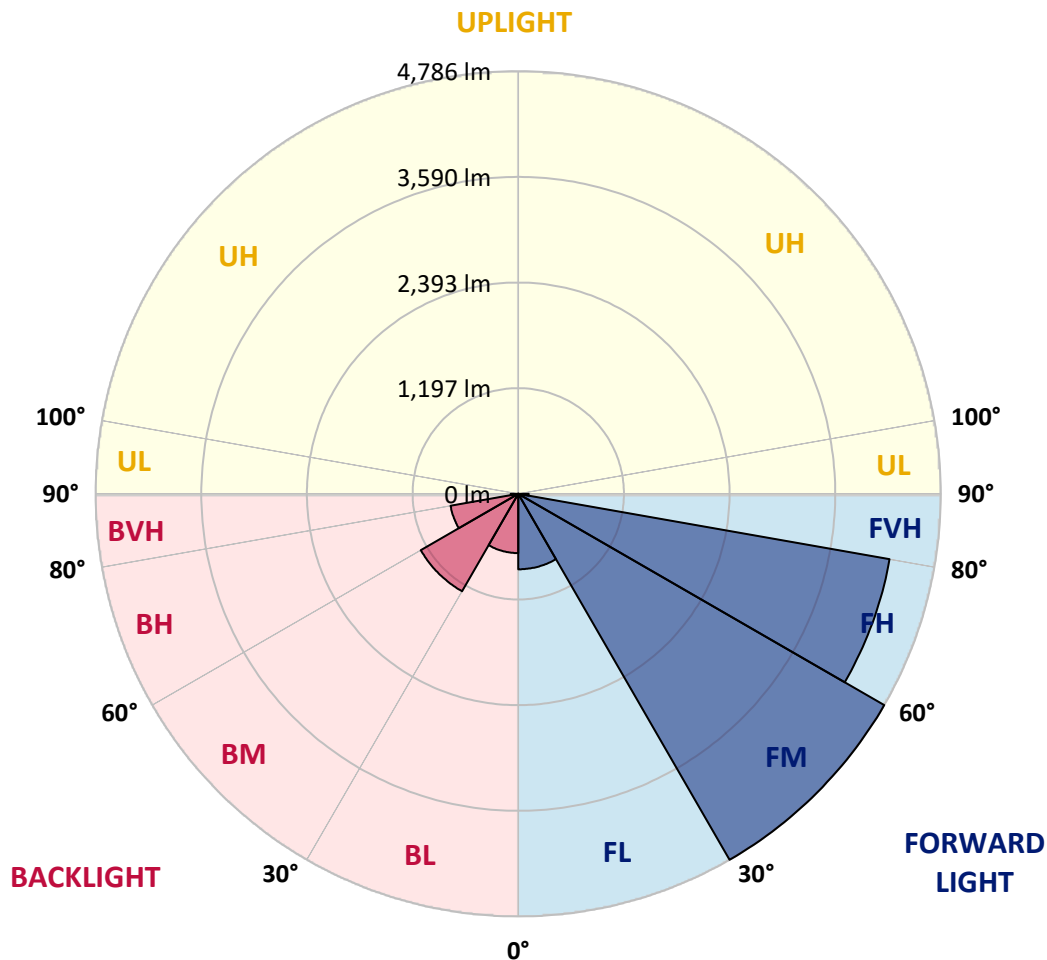
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.1	6.7			
FM (30°-60°)	4786.4	37.3			
FH (60°-80°)	4269.7	33.3			G2/5000
FVH (80°-90°)	118.1	0.9			G2/225
BL (0°-30°)	671.2	5.2	B2/1000		
BM (30°-60°)	1274.9	9.9	B2/2500		
BH (60°-80°)	778.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	84.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1609.3	1602.4	1598.9	1602.4	1598.9	1591.9	1595.4	1591.9	1588.5	1585.0	1585.0
5°	1630.2	1623.2	1619.7	1623.2	1626.7	1619.7	1619.7	1619.7	1609.3	1605.8	1598.9
7.5°	1644.1	1633.7	1633.7	1640.6	1647.6	1651.0	1658.0	1654.5	1644.1	1637.1	1623.2
10°	1689.3	1675.4	1675.4	1675.4	1682.3	1689.3	1696.2	1699.7	1696.2	1692.7	1682.3
12.5°	1758.8	1744.9	1744.9	1744.9	1744.9	1741.4	1751.8	1755.3	1762.3	1762.3	1744.9
15°	1852.6	1835.3	1828.3	1814.4	1810.9	1804.0	1817.9	1817.9	1828.3	1831.8	1814.4
17.5°	1943.0	1922.1	1915.2	1901.3	1887.4	1870.0	1883.9	1887.4	1908.2	1911.7	1883.9
20°	2036.9	2029.9	2019.5	1998.6	1974.3	1956.9	1970.8	1967.3	1984.7	1991.7	1956.9
22.5°	2158.5	2141.1	2134.2	2106.4	2078.6	2061.2	2061.2	2068.1	2085.5	2085.5	2033.4
25°	2304.5	2280.2	2262.8	2231.5	2196.7	2175.9	2179.4	2186.3	2210.6	2193.3	2113.3
27.5°	2485.2	2460.9	2436.6	2374.0	2339.3	2297.5	2294.1	2301.0	2339.3	2294.1	2189.8
30°	2655.6	2645.1	2624.3	2575.6	2520.0	2450.5	2419.2	2422.7	2450.5	2387.9	2255.8
32.5°	2801.5	2787.6	2777.2	2742.4	2704.2	2620.8	2579.1	2582.6	2579.1	2502.6	2335.8
35°	2975.3	2954.5	2947.5	2916.2	2867.6	2812.0	2794.6	2787.6	2766.8	2662.5	2440.1
37.5°	3142.2	3121.3	3110.9	3093.5	3055.3	3006.6	3006.6	3003.1	2961.4	2815.4	2544.3
40°	3340.3	3316.0	3284.7	3274.3	3243.0	3208.2	3180.4	3163.0	3090.0	2958.0	2745.9
42.5°	3580.1	3566.2	3548.8	3503.7	3455.0	3448.0	3368.1	3361.2	3309.0	3232.5	3030.9
45°	3924.2	3896.4	3872.1	3858.2	3799.1	3736.5	3625.3	3597.5	3597.5	3580.1	3364.6
47.5°	4271.8	4223.2	4257.9	4247.5	4233.6	4164.1	3948.6	3952.0	3945.1	3990.3	3854.7
50°	4504.7	4476.9	4574.2	4619.4	4716.7	4716.7	4407.4	4369.2	4397.0	4529.0	4355.2
52.5°	4685.5	4668.1	4779.3	4956.6	5245.1	5272.9	4953.1	4873.1	4911.4	5099.1	5029.6
55°	4831.4	4814.1	4942.7	5252.0	5714.3	5884.6	5582.2	5547.5	5471.0	5672.6	5693.5
57.5°	4918.3	4880.1	5074.7	5488.4	6096.7	6489.4	6319.1	6308.7	6131.4	6319.1	6413.0
60°	4786.3	4761.9	5029.6	5585.7	6406.0	7059.5	7184.6	7184.6	6868.3	6969.1	7083.8
62.5°	4358.7	4327.4	4609.0	5359.8	6444.2	7525.2	8043.1	8001.4	7577.4	7573.9	7473.1
65°	3545.4	3507.1	3823.4	4615.9	5961.1	7580.8	8623.6	8599.3	8109.2	7970.1	7497.4
67°	2575.6	2551.3	2822.4	3607.9	5022.6	7097.7	8696.6	8717.4	8321.2	8025.7	7146.4
67.5°	2311.4	2308.0	2533.9	3312.5	4748.0	6920.4	8647.9	8668.8	8317.7	7980.6	7007.3
70°	1077.5	1126.2	1338.2	1897.8	3201.3	5450.1	7848.5	7928.4	7872.8	7459.2	5902.0
72.5°	500.5	521.4	615.2	917.6	1720.5	3514.1	6360.8	6552.0	6795.3	6399.0	4675.0
75°	309.4	316.3	368.4	476.2	809.9	1689.3	4529.0	4737.6	5106.0	4814.1	2989.2
77.5°	243.3	246.8	281.5	340.6	472.7	726.5	2485.2	2745.9	3225.6	2846.7	1505.0
80°	180.7	187.7	215.5	264.2	333.7	371.9	1056.7	1154.0	1557.2	1192.2	625.7
82.5°	132.1	139.0	166.8	191.2	232.9	236.4	431.0	455.3	667.4	483.1	271.1
85°	111.2	111.2	128.6	142.5	156.4	132.1	212.0	208.6	257.2	219.0	107.8
87.5°	52.1	55.6	121.7	90.4	76.5	55.6	62.6	66.0	79.9	86.9	41.7
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°	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0	1585.0
2.5°	1581.5	1581.5	1581.5	1585.0	1588.5	1588.5	1591.9	1591.9	1595.4	1598.9	1605.8
5°	1595.4	1595.4	1591.9	1595.4	1602.4	1605.8	1612.8	1619.7	1626.7	1633.7	1637.1
7.5°	1623.2	1619.7	1619.7	1619.7	1626.7	1633.7	1644.1	1651.0	1661.5	1664.9	1671.9
10°	1675.4	1668.4	1668.4	1671.9	1675.4	1664.9	1661.5	1658.0	1668.4	1675.4	1682.3
12.5°	1737.9	1731.0	1727.5	1717.1	1703.2	1682.3	1664.9	1651.0	1654.5	1661.5	1671.9
15°	1804.0	1790.1	1783.1	1758.8	1724.0	1678.8	1651.0	1633.7	1633.7	1633.7	1644.1
17.5°	1873.5	1859.6	1831.8	1786.6	1720.5	1658.0	1623.2	1591.9	1578.0	1574.6	1581.5
20°	1939.5	1918.7	1873.5	1804.0	1699.7	1616.3	1571.1	1518.9	1498.1	1484.2	1491.1
22.5°	2002.1	1974.3	1911.7	1804.0	1664.9	1553.7	1473.8	1404.2	1369.5	1362.5	1366.0
25°	2068.1	2033.4	1950.0	1783.1	1588.5	1459.9	1348.6	1275.6	1230.5	1223.5	1233.9
27.5°	2134.2	2082.0	1981.2	1727.5	1501.6	1331.3	1213.1	1143.6	1119.2	1105.3	1108.8
30°	2189.8	2141.1	2012.5	1651.0	1383.4	1181.8	1074.0	1042.8	1025.4	1018.4	1018.4
32.5°	2262.8	2217.6	2033.4	1560.7	1244.4	1046.2	976.7	952.4	938.5	921.1	924.6
35°	2353.2	2311.4	2022.9	1446.0	1112.3	955.9	900.2	865.5	834.2	809.9	806.4
37.5°	2474.8	2443.5	1970.8	1306.9	990.6	889.8	834.2	789.0	743.8	705.6	698.6
40°	2676.4	2603.4	1894.3	1154.0	907.2	837.7	771.6	716.0	660.4	618.7	608.3
42.5°	2933.6	2780.7	1790.1	997.6	837.7	782.1	716.0	643.0	590.9	552.7	552.7
45°	3232.5	2971.9	1664.9	879.4	764.7	726.5	646.5	583.9	552.7	528.3	524.9
47.5°	3587.1	3163.0	1505.0	785.5	705.6	677.8	597.8	559.6	538.8	517.9	514.4
50°	4063.3	3420.2	1386.9	705.6	646.5	622.2	583.9	552.7	531.8	517.9	514.4
52.5°	4609.0	3750.4	1303.4	643.0	597.8	587.4	580.5	556.1	535.3	524.9	521.4
55°	5199.9	4157.1	1223.5	590.9	559.6	573.5	587.4	563.1	549.2	535.3	528.3
57.5°	5756.0	4501.2	1094.9	545.7	531.8	556.1	583.9	566.6	549.2	538.8	535.3
60°	6134.9	4675.0	917.6	504.0	504.0	531.8	573.5	549.2	531.8	535.3	535.3
62.5°	6256.5	4609.0	726.5	465.8	476.2	504.0	542.2	528.3	521.4	538.8	538.8
65°	6075.8	4341.3	580.5	434.5	448.4	469.2	524.9	538.8	559.6	597.8	601.3
67°	5603.1	3910.3	490.1	410.2	424.1	458.8	545.7	594.4	594.4	636.1	636.1
67.5°	5464.0	3764.4	476.2	403.2	420.6	458.8	556.1	608.3	594.4	643.0	643.0
70°	4442.1	2961.4	403.2	382.3	406.7	483.1	601.3	611.8	580.5	625.7	622.2
72.5°	3295.1	2141.1	368.4	361.5	378.9	455.3	597.8	587.4	542.2	556.1	545.7
75°	2036.9	1240.9	340.6	333.7	344.1	403.2	552.7	535.3	483.1	472.7	462.3
77.5°	983.7	629.1	292.0	302.4	312.8	351.1	486.6	469.2	424.1	399.7	396.2
80°	427.5	323.3	250.3	267.6	271.1	298.9	403.2	382.3	340.6	302.4	302.4
82.5°	212.0	180.7	198.1	222.5	215.5	239.8	316.3	281.5	250.3	208.6	201.6
85°	97.3	104.3	146.0	166.8	146.0	149.5	215.5	198.1	156.4	118.2	121.7
87.5°	34.8	48.7	83.4	100.8	73.0	69.5	114.7	83.4	48.7	13.9	17.4
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)