

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: P572758

Luminaire Tested: **ARCH-S-PA2-110-740-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572758
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-PA2-110-740-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1105mA 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: 11023 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

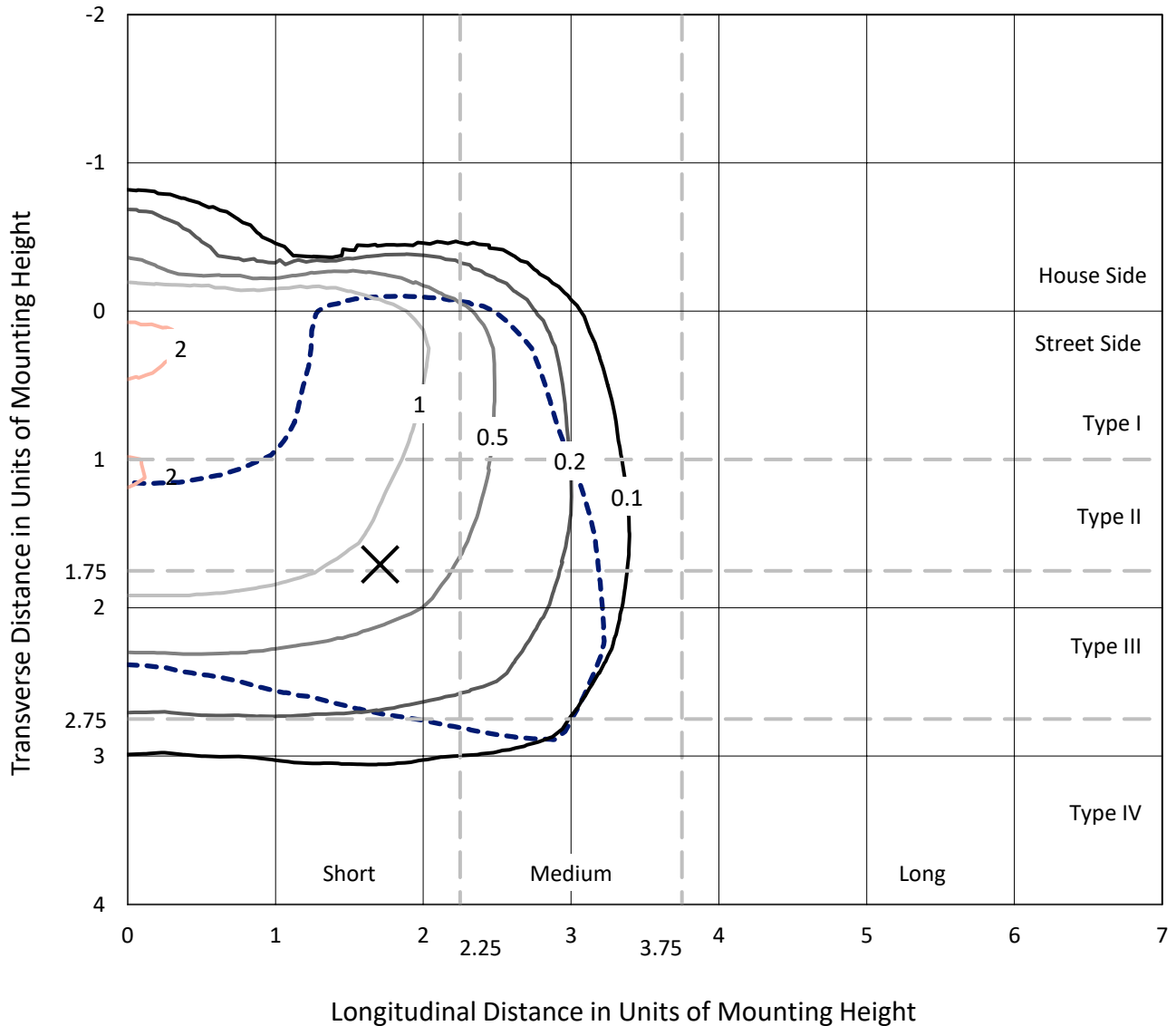
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

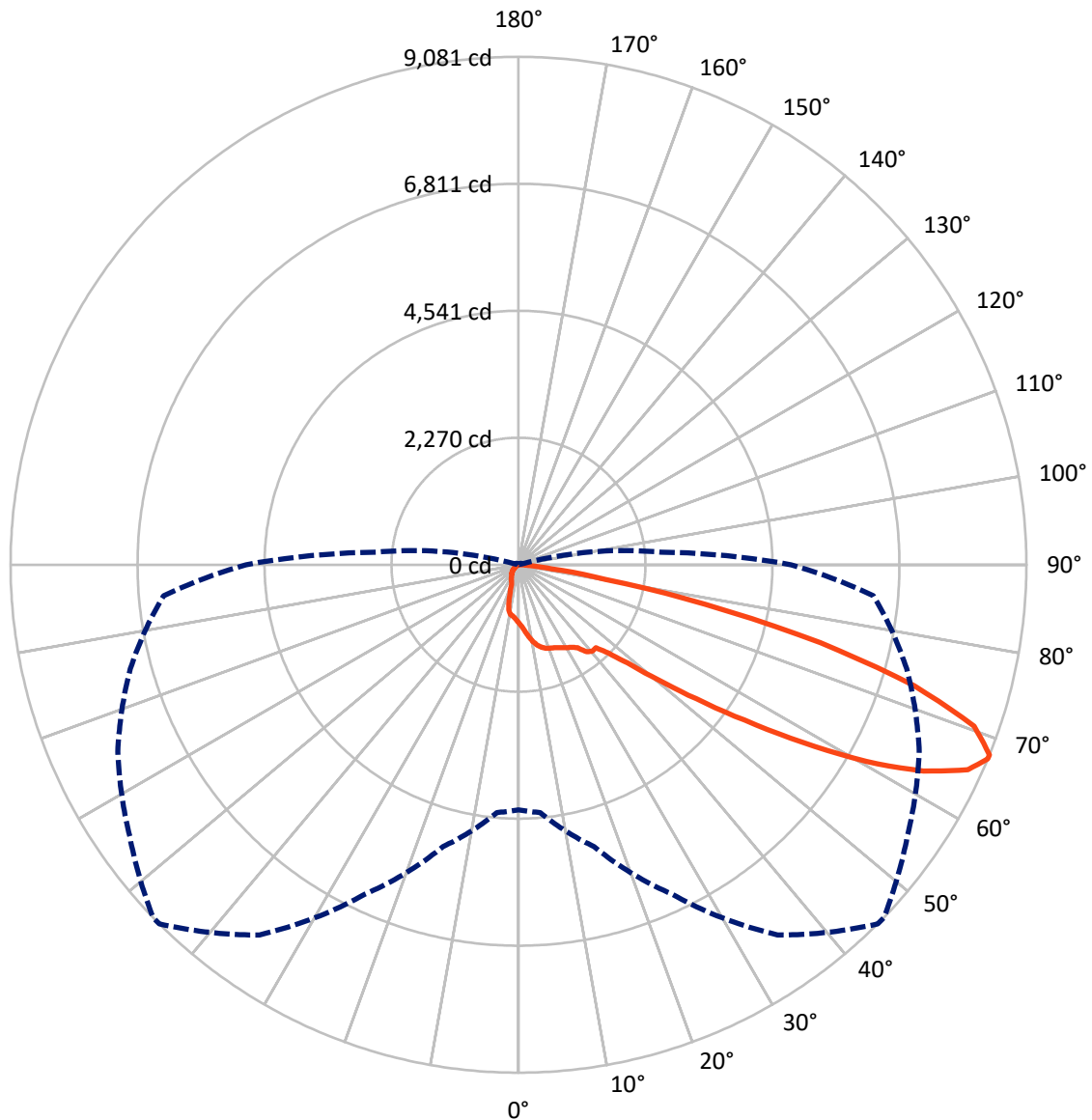
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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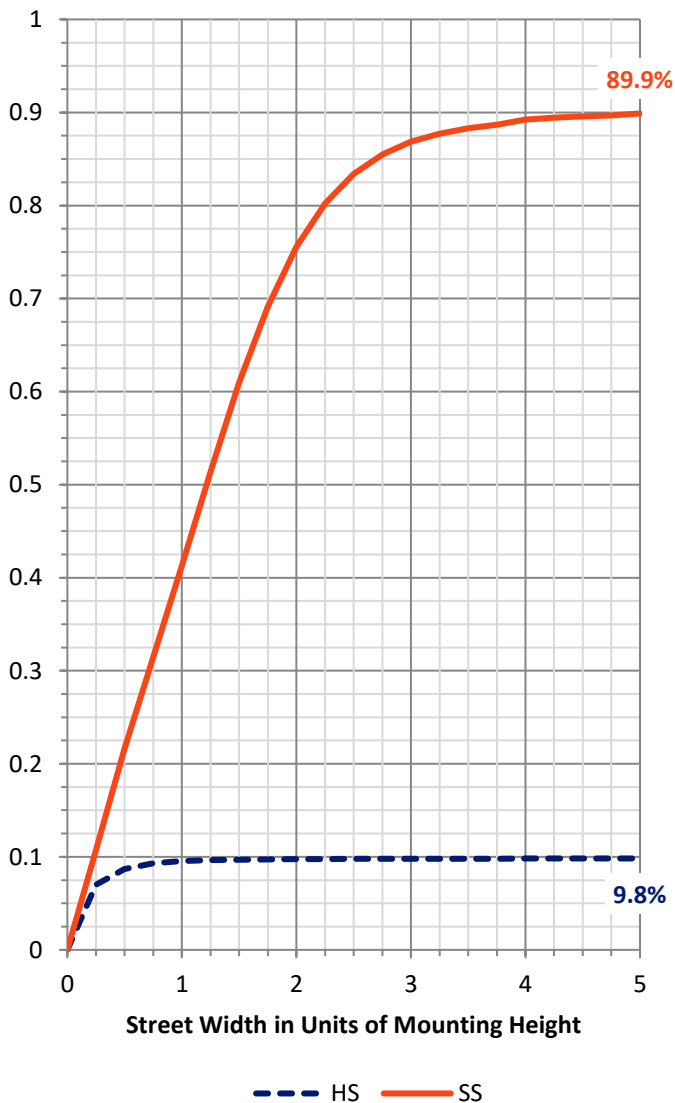
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1092.2	0.0	1092.2
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	9930.8	0.0	9930.8
	% Fixture	90.1	0.0	90.1
Total	Lumens	11023.0	0.0	11023.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	0.9
10°-20°	316.3	2.9
20°-30°	506.0	4.6
30°-40°	728.2	6.6
40°-50°	1277.5	11.6
50°-60°	2691.8	24.4
60°-70°	3722.4	33.8
70°-80°	1558.3	14.1
80°-90°	117.8	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°	11023.0	100.0
0°-180°	11023.0	100.0



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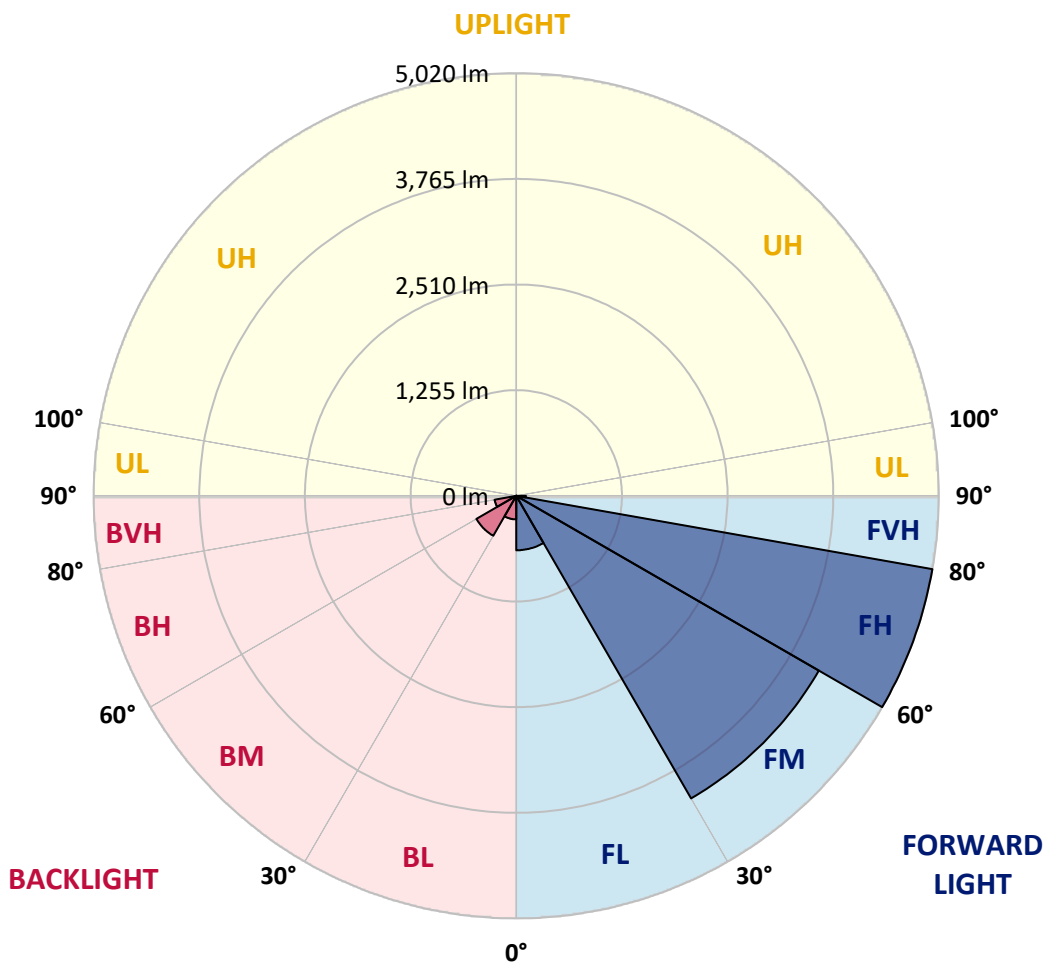
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.0	5.9			
FM (30°-60°)	4150.3	37.7			
FH (60°-80°)	5019.6	45.5			G3/7500
FVH (80°-90°)	113.9	1.0			G2/225
BL (0°-30°)	279.9	2.5	B1/500		
BM (30°-60°)	547.2	5.0	B1/1000		
BH (60°-80°)	261.1	2.4	B1/500		G1/500
BVH (80°-90°)	4.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1160.6	1140.2	1136.1	1132.1	1119.9	1103.6	1107.6	1095.4	1075.1	1062.8	1050.6
5°	1303.1	1282.7	1274.6	1250.2	1225.7	1189.1	1189.1	1156.5	1119.9	1087.3	1054.7
7.5°	1449.7	1433.4	1417.1	1380.5	1343.8	1295.0	1290.9	1242.0	1185.0	1136.1	1083.2
10°	1571.9	1559.6	1539.3	1494.5	1445.6	1392.7	1380.5	1335.7	1262.4	1197.2	1128.0
12.5°	1669.6	1657.4	1628.9	1584.1	1523.0	1470.1	1466.0	1409.0	1335.7	1266.4	1180.9
15°	1742.9	1722.5	1690.0	1641.1	1580.0	1531.1	1523.0	1474.1	1404.9	1327.5	1225.7
17.5°	1755.1	1742.9	1714.4	1661.5	1608.5	1567.8	1563.7	1527.1	1466.0	1384.5	1278.7
20°	1722.5	1718.5	1694.0	1653.3	1612.6	1592.2	1588.2	1563.7	1514.9	1441.6	1335.7
22.5°	1673.7	1669.6	1653.3	1632.9	1616.7	1612.6	1612.6	1604.4	1575.9	1506.7	1409.0
25°	1641.1	1637.0	1628.9	1616.7	1616.7	1641.1	1645.2	1653.3	1628.9	1575.9	1470.1
27.5°	1645.2	1637.0	1628.9	1616.7	1632.9	1677.7	1681.8	1702.2	1681.8	1632.9	1539.3
30°	1702.2	1690.0	1665.5	1637.0	1657.4	1718.5	1722.5	1747.0	1730.7	1706.2	1616.7
32.5°	1791.8	1783.6	1734.8	1685.9	1698.1	1759.2	1767.3	1812.1	1832.5	1795.8	1685.9
35°	1922.1	1893.6	1832.5	1783.6	1775.5	1820.3	1832.5	1905.8	1958.7	1869.1	1726.6
37.5°	2027.9	2003.5	1905.8	1828.4	1873.2	1975.0	1979.1	2068.7	2023.9	1877.3	1791.8
40°	2386.3	2382.2	2211.2	1966.9	1918.0	2032.0	2048.3	2064.6	2044.2	1970.9	1934.3
42.5°	2964.5	2915.7	2724.3	2349.7	2015.7	2027.9	2036.1	2121.6	2227.5	2194.9	2207.1
45°	3591.7	3550.9	3335.1	2862.7	2349.7	2247.8	2256.0	2394.4	2598.1	2638.8	2703.9
47.5°	4169.9	4104.8	3982.6	3506.2	2919.8	2622.5	2638.8	2805.7	3143.7	3233.3	3335.1
50°	4658.6	4613.8	4499.8	4186.2	3620.2	3213.0	3229.2	3367.7	3807.5	3950.0	4080.3
52.5°	5367.1	5306.1	5086.2	4939.6	4512.0	3982.6	3945.9	4092.5	4597.5	4691.2	4866.3
55°	6018.7	5892.5	5762.1	5701.1	5521.9	4902.9	4890.7	4919.2	5338.6	5387.5	5701.1
57.5°	6295.6	6271.2	6381.1	6584.7	6625.4	5986.1	5933.2	5823.2	6153.1	6149.0	6515.5
60°	6470.7	6470.7	6763.9	7268.8	7594.6	7142.6	7069.3	6727.2	6845.3	6849.4	7187.4
62.5°	6360.8	6389.3	6845.3	7606.8	8262.5	8124.0	8075.1	7501.0	7492.8	7399.2	7517.3
65°	5680.7	5729.6	6462.6	7419.5	8506.8	8832.6	8812.2	8160.7	7924.5	7582.4	7317.7
67°	4634.1	4723.7	5611.5	6743.5	8229.9	9076.9	9081.0	8445.7	7928.5	7277.0	6613.2
67.5°	4381.7	4446.8	5216.5	6499.2	8079.2	9081.0	9081.0	8482.4	7904.1	7183.3	6368.9
70°	2793.5	2809.8	3648.7	5029.1	6902.4	8641.2	8673.8	8205.5	7199.6	5815.1	4471.3
72.5°	1380.5	1343.8	1926.1	3237.4	5179.8	7395.1	7480.6	7008.2	5697.0	3799.3	2361.9
75°	541.6	578.3	838.9	1722.5	3245.5	5574.8	5640.0	5098.4	3665.0	1958.7	932.5
77.5°	240.3	240.3	358.4	773.7	1706.2	3420.6	3453.2	3111.1	1934.3	806.3	285.1
80°	130.3	138.5	187.3	338.0	859.2	1571.9	1714.4	1543.4	875.5	354.3	97.7
82.5°	65.2	69.2	114.0	191.4	431.7	594.5	627.1	655.6	403.1	219.9	40.7
85°	24.4	28.5	61.1	109.9	195.5	199.5	199.5	256.5	219.9	167.0	20.4
87.5°	4.1	8.1	28.5	44.8	77.4	69.2	61.1	81.4	122.2	105.9	12.2
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°	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5	1042.5
2.5°	1042.5	1034.3	1018.0	1005.8	997.7	989.5	981.4	981.4	977.3	977.3	981.4
5°	1042.5	1026.2	993.6	973.3	957.0	944.7	936.6	936.6	932.5	936.6	940.7
7.5°	1062.8	1038.4	993.6	957.0	936.6	916.2	908.1	904.0	904.0	908.1	904.0
10°	1095.4	1062.8	1005.8	957.0	928.5	900.0	855.2	814.4	777.8	761.5	757.4
12.5°	1136.1	1095.4	1026.2	969.2	924.4	826.7	704.5	627.1	578.3	553.8	545.7
15°	1180.9	1132.1	1050.6	985.5	863.3	680.1	521.2	435.7	407.2	411.3	415.4
17.5°	1229.8	1176.9	1087.3	977.3	741.1	505.0	382.8	362.4	374.6	386.9	386.9
20°	1278.7	1221.7	1123.9	916.2	582.3	374.6	342.1	346.1	358.4	370.6	370.6
22.5°	1343.8	1282.7	1160.6	810.4	431.7	325.8	325.8	333.9	342.1	354.3	354.3
25°	1413.0	1352.0	1185.0	680.1	321.7	305.4	309.5	317.6	325.8	338.0	338.0
27.5°	1486.3	1425.3	1180.9	525.3	281.0	281.0	285.1	297.3	305.4	317.6	317.6
30°	1567.8	1514.9	1136.1	382.8	260.6	256.5	256.5	268.8	281.0	289.1	293.2
32.5°	1637.0	1592.2	1058.8	289.1	244.3	236.2	232.1	236.2	248.4	256.5	260.6
35°	1694.0	1677.7	944.7	248.4	228.0	215.8	207.7	203.6	207.7	207.7	211.8
37.5°	1799.9	1804.0	810.4	232.1	215.8	199.5	183.2	171.0	162.9	158.8	154.7
40°	1999.4	1995.4	667.8	219.9	203.6	183.2	158.8	142.5	122.2	114.0	114.0
42.5°	2280.4	2219.3	509.0	207.7	191.4	167.0	134.4	109.9	89.6	85.5	85.5
45°	2785.4	2532.9	382.8	199.5	179.2	146.6	109.9	81.4	69.2	65.2	65.2
47.5°	3343.3	2895.3	305.4	187.3	167.0	130.3	85.5	65.2	52.9	52.9	52.9
50°	3958.2	3241.5	256.5	175.1	146.6	109.9	69.2	52.9	48.9	44.8	48.9
52.5°	4630.1	3514.3	224.0	158.8	126.2	89.6	57.0	48.9	40.7	40.7	40.7
55°	5232.8	3697.5	187.3	138.5	105.9	73.3	52.9	40.7	36.6	32.6	28.5
57.5°	5778.4	3795.3	150.7	118.1	81.4	61.1	44.8	32.6	28.5	20.4	20.4
60°	6059.4	3705.7	118.1	93.7	65.2	48.9	36.6	28.5	20.4	12.2	12.2
62.5°	6104.2	3473.6	93.7	73.3	57.0	40.7	28.5	20.4	12.2	8.1	8.1
65°	5713.3	3066.4	77.4	61.1	44.8	32.6	24.4	16.3	8.1	4.1	4.1
67°	5012.9	2638.8	69.2	52.9	40.7	28.5	20.4	12.2	8.1	4.1	0.0
67.5°	4874.4	2561.4	65.2	52.9	40.7	28.5	20.4	12.2	8.1	4.1	0.0
70°	3200.7	1771.4	61.1	48.9	36.6	24.4	16.3	12.2	4.1	0.0	0.0
72.5°	1747.0	891.8	57.0	44.8	32.6	24.4	16.3	8.1	4.1	0.0	0.0
75°	639.3	338.0	48.9	40.7	28.5	24.4	16.3	8.1	4.1	0.0	0.0
77.5°	215.8	118.1	44.8	40.7	32.6	24.4	16.3	8.1	4.1	0.0	0.0
80°	73.3	52.9	36.6	32.6	24.4	20.4	16.3	8.1	4.1	0.0	0.0
82.5°	28.5	16.3	12.2	12.2	12.2	16.3	16.3	12.2	4.1	0.0	0.0
85°	12.2	8.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0	0.0
87.5°	12.2	8.1	4.1	4.1	4.1	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)