

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: P572956

Luminaire Tested: **ARCH-S-PA2-130-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572956
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-PA2-130-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 9443 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

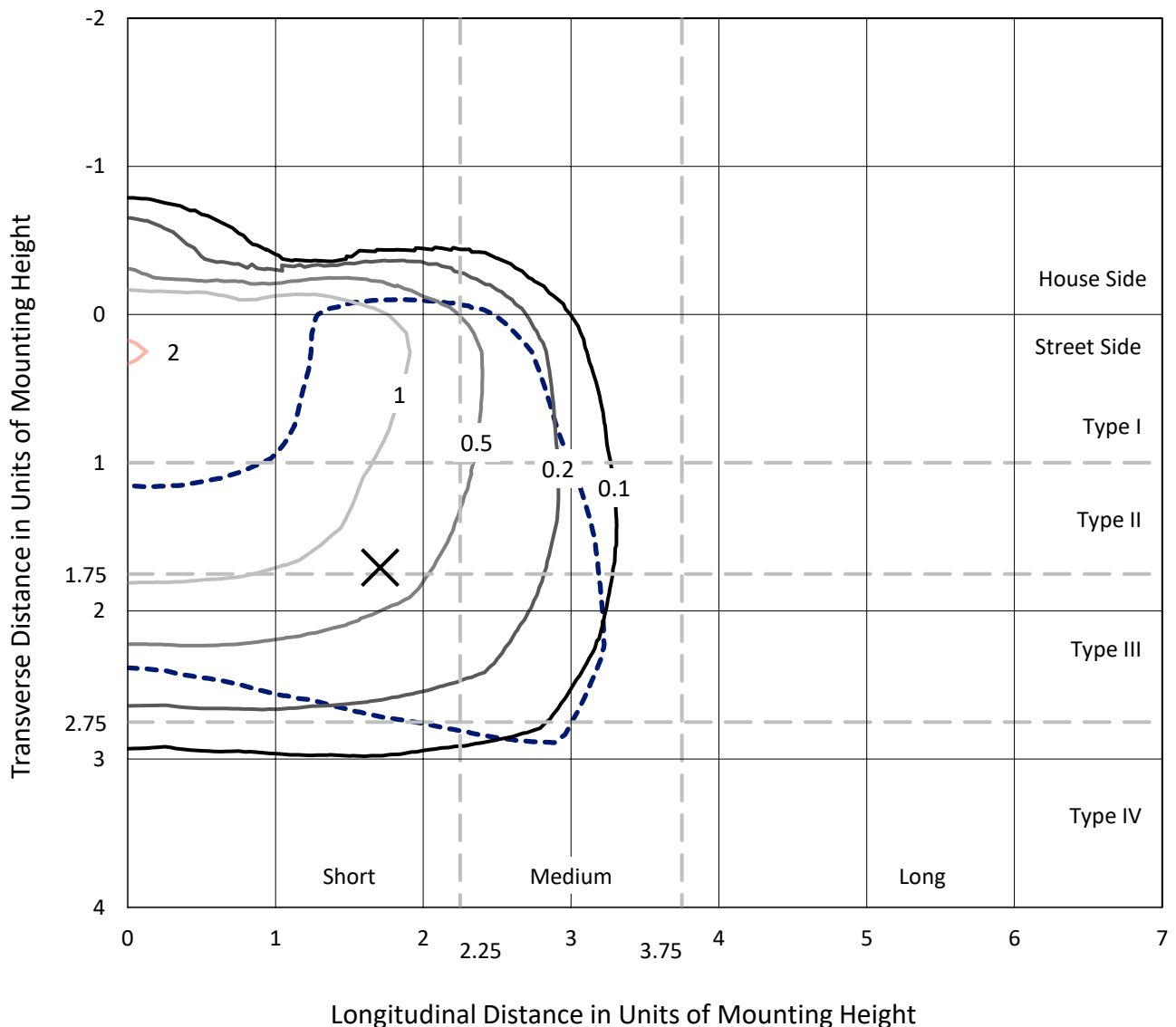
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

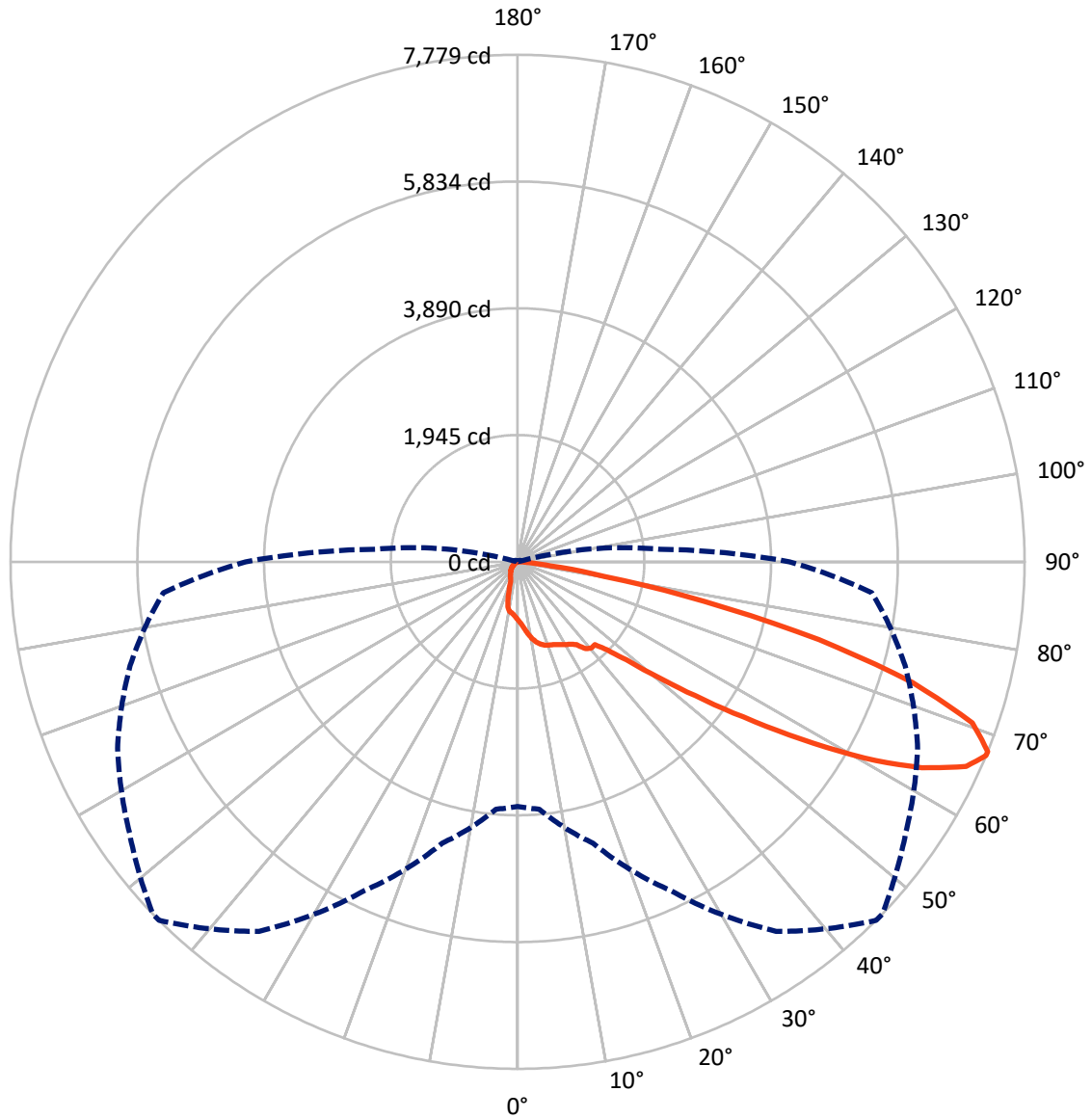
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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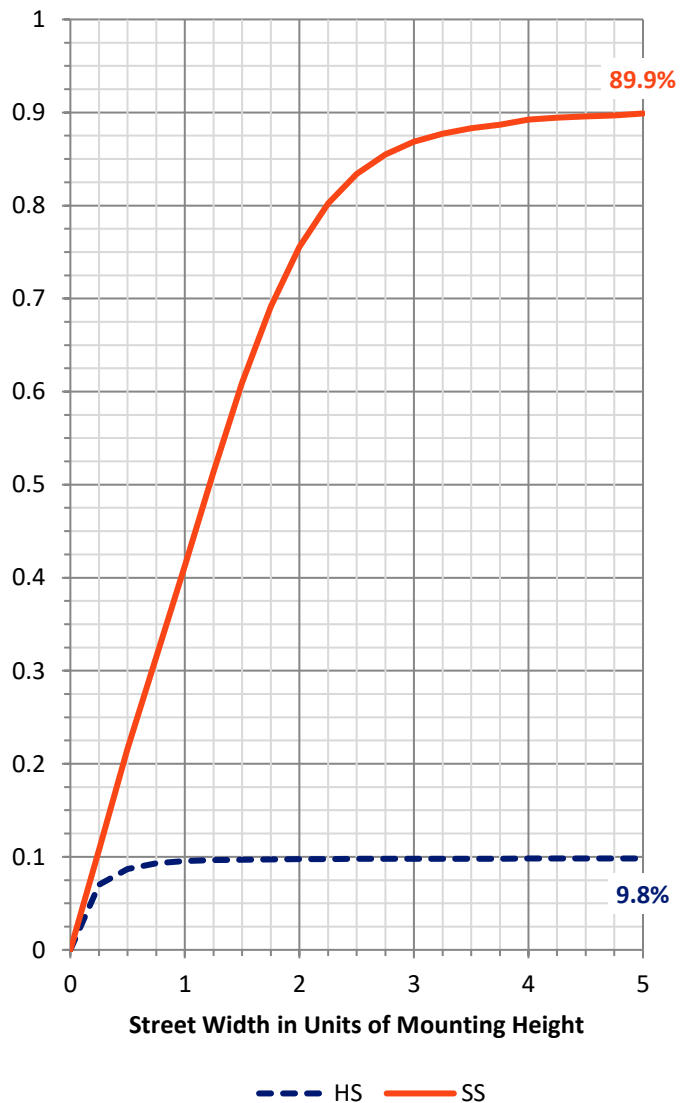
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.7	0.0	935.7
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	8507.3	0.0	8507.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	9443.0	0.0	9443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.9
10°-20°	271.0	2.9
20°-30°	433.4	4.6
30°-40°	623.8	6.6
40°-50°	1094.4	11.6
50°-60°	2306.0	24.4
60°-70°	3188.8	33.8
70°-80°	1335.0	14.1
80°-90°	101.0	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°	9443.0	100.0
0°-180°	9443.0	100.0

Coefficient of Utilization



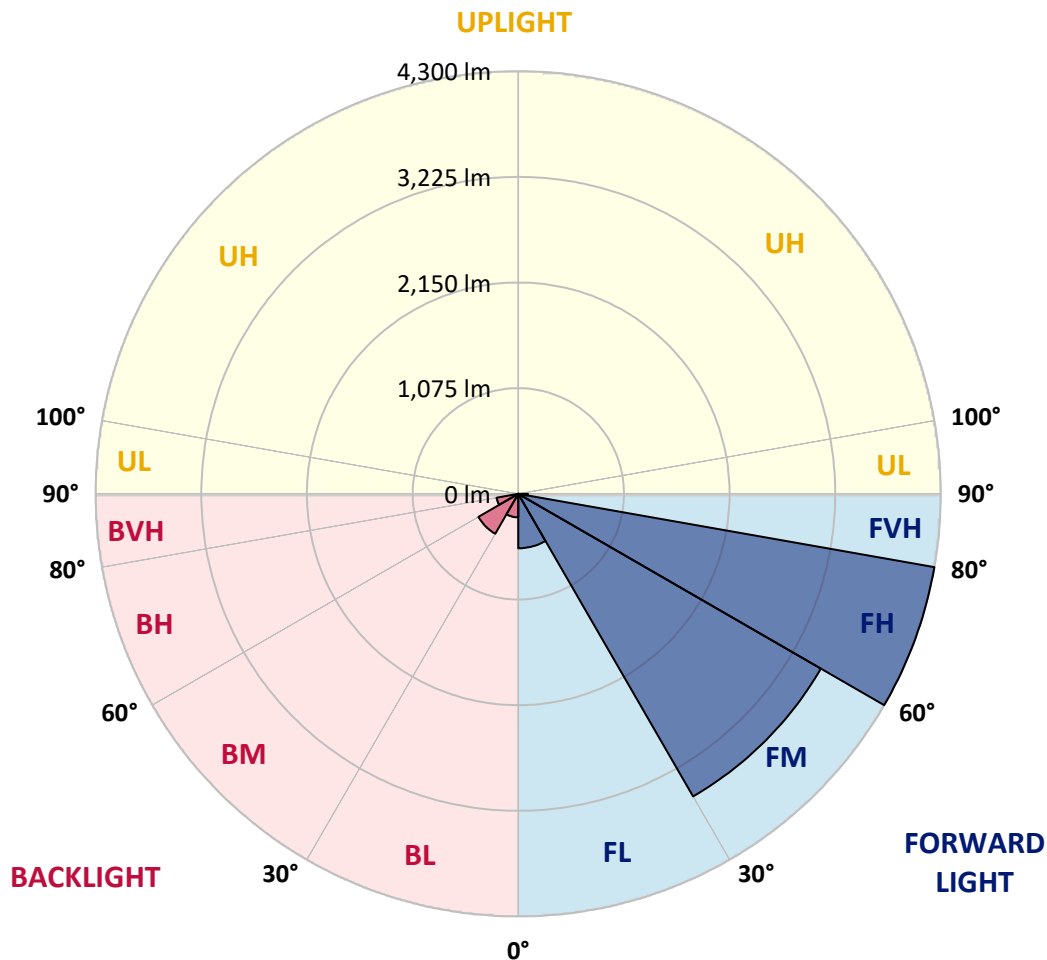
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.2	5.9			
FM (30°-60°)	3555.4	37.7			
FH (60°-80°)	4300.1	45.5			G2/5000
FVH (80°-90°)	97.5	1.0			G1/100
BL (0°-30°)	239.8	2.5	B1/500		
BM (30°-60°)	468.8	5.0	B1/1000		
BH (60°-80°)	223.6	2.4	B1/500		G1/500
BVH (80°-90°)	3.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1
2.5°	994.2	976.8	973.3	969.8	959.3	945.4	948.9	938.4	921.0	910.5	900.0
5°	1116.3	1098.9	1091.9	1071.0	1050.0	1018.6	1018.6	990.7	959.3	931.4	903.5
7.5°	1241.9	1227.9	1214.0	1182.6	1151.2	1109.3	1105.9	1064.0	1015.2	973.3	927.9
10°	1346.6	1336.1	1318.6	1280.3	1238.4	1193.1	1182.6	1144.2	1081.4	1025.6	966.3
12.5°	1430.3	1419.8	1395.4	1357.0	1304.7	1259.3	1255.9	1207.0	1144.2	1084.9	1011.7
15°	1493.1	1475.6	1447.7	1405.9	1353.5	1311.7	1304.7	1262.8	1203.5	1137.2	1050.0
17.5°	1503.5	1493.1	1468.7	1423.3	1378.0	1343.1	1339.6	1308.2	1255.9	1186.1	1095.4
20°	1475.6	1472.1	1451.2	1416.3	1381.4	1364.0	1360.5	1339.6	1297.7	1234.9	1144.2
22.5°	1433.8	1430.3	1416.3	1398.9	1384.9	1381.4	1381.4	1374.5	1350.0	1290.7	1207.0
25°	1405.9	1402.4	1395.4	1384.9	1384.9	1405.9	1409.4	1416.3	1395.4	1350.0	1259.3
27.5°	1409.4	1402.4	1395.4	1384.9	1398.9	1437.3	1440.7	1458.2	1440.7	1398.9	1318.6
30°	1458.2	1447.7	1426.8	1402.4	1419.8	1472.1	1475.6	1496.6	1482.6	1461.7	1384.9
32.5°	1534.9	1528.0	1486.1	1444.2	1454.7	1507.0	1514.0	1552.4	1569.8	1538.4	1444.2
35°	1646.6	1622.1	1569.8	1528.0	1521.0	1559.4	1569.8	1632.6	1678.0	1601.2	1479.1
37.5°	1737.3	1716.3	1632.6	1566.3	1604.7	1691.9	1695.4	1772.2	1733.8	1608.2	1534.9
40°	2044.3	2040.8	1894.3	1684.9	1643.1	1740.8	1754.7	1768.7	1751.2	1688.4	1657.0
42.5°	2539.6	2497.8	2333.8	2012.9	1726.8	1737.3	1744.2	1817.5	1908.2	1880.3	1890.8
45°	3076.8	3042.0	2857.1	2452.4	2012.9	1925.6	1932.6	2051.2	2225.7	2260.5	2316.4
47.5°	3572.2	3516.4	3411.7	3003.6	2501.2	2246.6	2260.5	2403.6	2693.1	2769.9	2857.1
50°	3990.8	3952.5	3854.8	3586.2	3101.3	2752.4	2766.4	2885.0	3261.7	3383.8	3495.5
52.5°	4597.8	4545.5	4357.1	4231.5	3865.2	3411.7	3380.3	3505.9	3938.5	4018.7	4168.7
55°	5156.0	5047.8	4936.2	4883.9	4730.4	4200.1	4189.7	4214.1	4573.4	4615.3	4883.9
57.5°	5393.2	5372.3	5466.5	5640.9	5675.8	5128.1	5082.7	4988.5	5271.1	5267.6	5581.6
60°	5543.2	5543.2	5794.4	6227.0	6506.0	6118.8	6056.0	5763.0	5864.2	5867.6	6157.2
62.5°	5449.0	5473.4	5864.2	6516.5	7078.1	6959.5	6917.7	6425.8	6418.8	6338.6	6439.8
65°	4866.4	4908.3	5536.2	6356.0	7287.5	7566.5	7549.1	6990.9	6788.6	6495.6	6268.8
67°	3969.9	4046.6	4807.1	5776.9	7050.2	7775.8	7779.3	7235.1	6792.1	6233.9	5665.3
67.5°	3753.6	3809.4	4468.8	5567.6	6921.2	7779.3	7779.3	7266.5	6771.2	6153.7	5456.0
70°	2393.1	2407.1	3125.7	4308.3	5913.0	7402.6	7430.5	7029.3	6167.7	4981.6	3830.4
72.5°	1182.6	1151.2	1650.1	2773.4	4437.4	6335.1	6408.4	6003.7	4880.4	3254.8	2023.3
75°	464.0	495.4	718.6	1475.6	2780.3	4775.7	4831.6	4367.6	3139.6	1678.0	798.9
77.5°	205.8	205.8	307.0	662.8	1461.7	2930.3	2958.2	2665.2	1657.0	690.7	244.2
80°	111.6	118.6	160.5	289.5	736.1	1346.6	1468.7	1322.1	750.0	303.5	83.7
82.5°	55.8	59.3	97.7	164.0	369.8	509.3	537.2	561.6	345.4	188.4	34.9
85°	20.9	24.4	52.3	94.2	167.4	170.9	170.9	219.8	188.4	143.0	17.4
87.5°	3.5	7.0	24.4	38.4	66.3	59.3	52.3	69.8	104.7	90.7	10.5
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°	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1	893.1
2.5°	893.1	886.1	872.1	861.7	854.7	847.7	840.7	840.7	837.2	837.2	840.7
5°	893.1	879.1	851.2	833.7	819.8	809.3	802.4	802.4	798.9	802.4	805.8
7.5°	910.5	889.6	851.2	819.8	802.4	784.9	777.9	774.4	774.4	777.9	774.4
10°	938.4	910.5	861.7	819.8	795.4	771.0	732.6	697.7	666.3	652.3	648.9
12.5°	973.3	938.4	879.1	830.3	791.9	708.2	603.5	537.2	495.4	474.4	467.5
15°	1011.7	969.8	900.0	844.2	739.6	582.6	446.5	373.3	348.8	352.3	355.8
17.5°	1053.5	1008.2	931.4	837.2	634.9	432.6	327.9	310.5	320.9	331.4	331.4
20°	1095.4	1046.5	962.8	784.9	498.9	320.9	293.0	296.5	307.0	317.5	317.5
22.5°	1151.2	1098.9	994.2	694.2	369.8	279.1	279.1	286.1	293.0	303.5	303.5
25°	1210.5	1158.2	1015.2	582.6	275.6	261.6	265.1	272.1	279.1	289.5	289.5
27.5°	1273.3	1221.0	1011.7	450.0	240.7	240.7	244.2	254.7	261.6	272.1	272.1
30°	1343.1	1297.7	973.3	327.9	223.3	219.8	219.8	230.2	240.7	247.7	251.2
32.5°	1402.4	1364.0	907.0	247.7	209.3	202.3	198.8	202.3	212.8	219.8	223.3
35°	1451.2	1437.3	809.3	212.8	195.4	184.9	177.9	174.4	177.9	177.9	181.4
37.5°	1541.9	1545.4	694.2	198.8	184.9	170.9	157.0	146.5	139.5	136.1	132.6
40°	1712.8	1709.4	572.1	188.4	174.4	157.0	136.1	122.1	104.7	97.7	97.7
42.5°	1953.6	1901.2	436.1	177.9	164.0	143.0	115.1	94.2	76.7	73.3	73.3
45°	2386.1	2169.8	327.9	170.9	153.5	125.6	94.2	69.8	59.3	55.8	55.8
47.5°	2864.1	2480.3	261.6	160.5	143.0	111.6	73.3	55.8	45.4	45.4	45.4
50°	3390.8	2776.8	219.8	150.0	125.6	94.2	59.3	45.4	41.9	38.4	41.9
52.5°	3966.4	3010.6	191.9	136.1	108.1	76.7	48.8	41.9	34.9	34.9	34.9
55°	4482.7	3167.5	160.5	118.6	90.7	62.8	45.4	34.9	31.4	27.9	24.4
57.5°	4950.2	3251.3	129.1	101.2	69.8	52.3	38.4	27.9	24.4	17.4	17.4
60°	5190.9	3174.5	101.2	80.2	55.8	41.9	31.4	24.4	17.4	10.5	10.5
62.5°	5229.2	2975.7	80.2	62.8	48.8	34.9	24.4	17.4	10.5	7.0	7.0
65°	4894.4	2626.8	66.3	52.3	38.4	27.9	20.9	14.0	7.0	3.5	3.5
67°	4294.3	2260.5	59.3	45.4	34.9	24.4	17.4	10.5	7.0	3.5	0.0
67.5°	4175.7	2194.3	55.8	45.4	34.9	24.4	17.4	10.5	7.0	3.5	0.0
70°	2742.0	1517.5	52.3	41.9	31.4	20.9	14.0	10.5	3.5	0.0	0.0
72.5°	1496.6	764.0	48.8	38.4	27.9	20.9	14.0	7.0	3.5	0.0	0.0
75°	547.7	289.5	41.9	34.9	24.4	20.9	14.0	7.0	3.5	0.0	0.0
77.5°	184.9	101.2	38.4	34.9	27.9	20.9	14.0	7.0	3.5	0.0	0.0
80°	62.8	45.4	31.4	27.9	20.9	17.4	14.0	7.0	3.5	0.0	0.0
82.5°	24.4	14.0	10.5	10.5	10.5	14.0	14.0	10.5	3.5	0.0	0.0
85°	10.5	7.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0	0.0
87.5°	10.5	7.0	3.5	3.5	3.5	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)