

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: P572984

Luminaire Tested: **ARCH-S-PA2-20-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3351 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

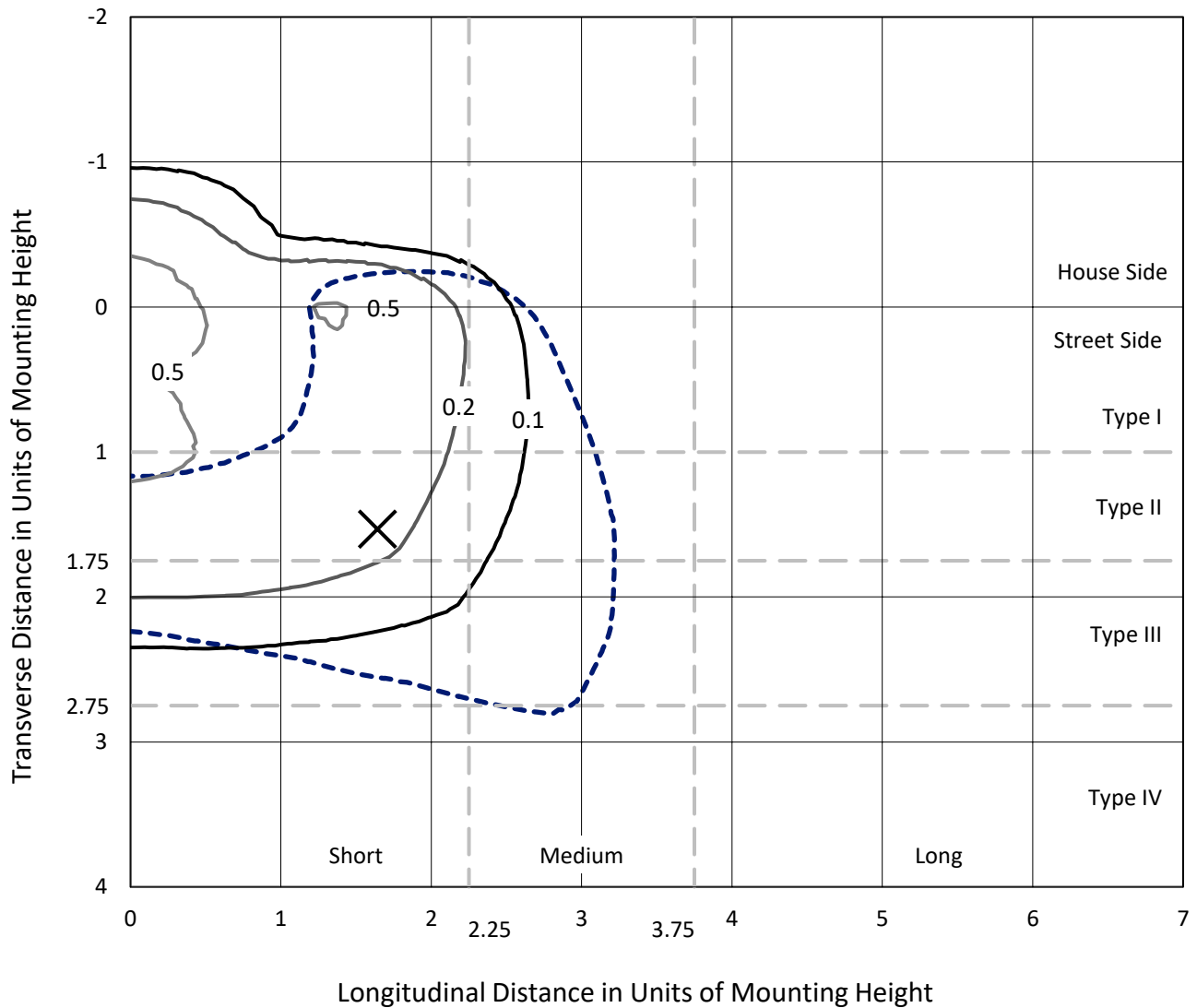
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

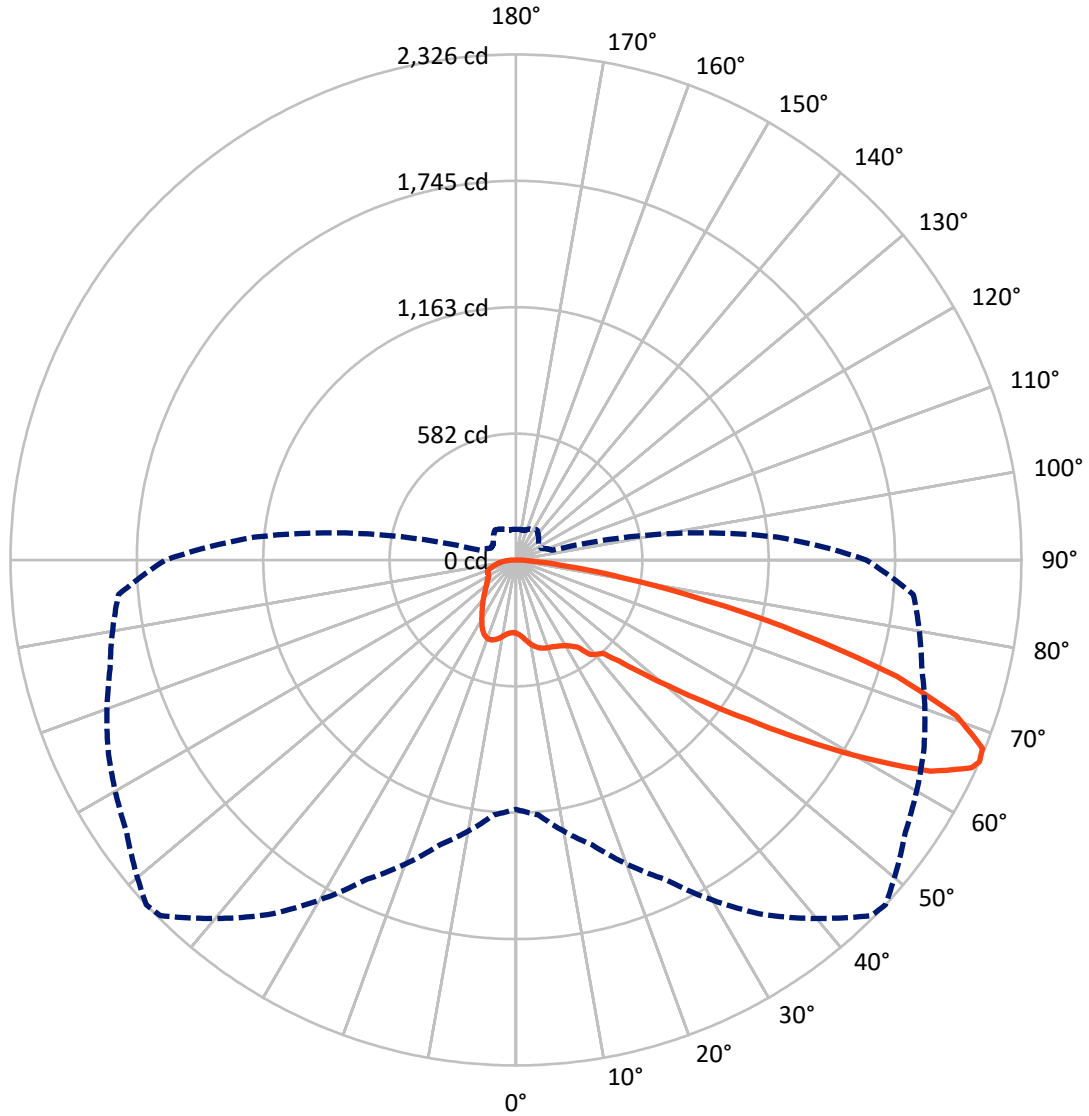
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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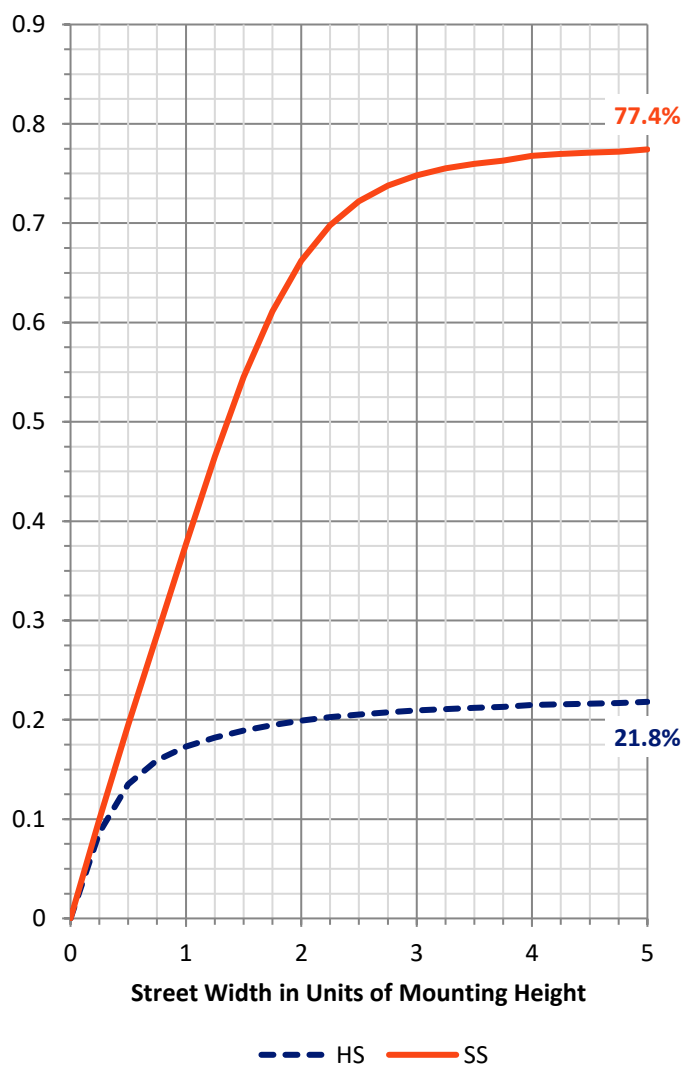
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.0	0.0	745.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	2606.0	0.0	2606.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	3351.0	0.0	3351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.0
10°-20°	112.5	3.4
20°-30°	187.6	5.6
30°-40°	272.4	8.1
40°-50°	416.6	12.4
50°-60°	787.5	23.5
60°-70°	1017.6	30.4
70°-80°	457.4	13.6
80°-90°	65.2	1.9
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°	3351.0	100.0
0°-180°	3351.0	100.0

Coefficient of Utilization



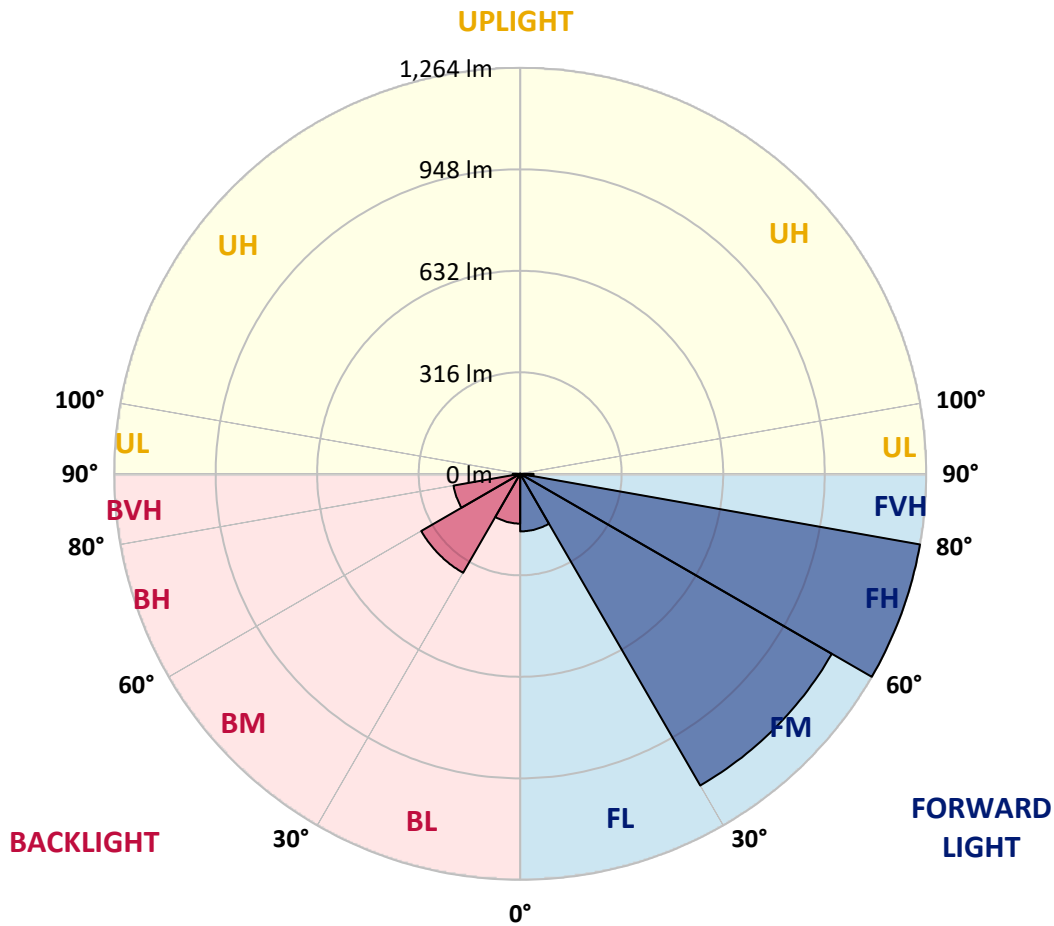
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.3	5.4			
FM (30°-60°)	1120.6	33.4			
FH (60°-80°)	1264.1	37.7			G1/1800
FVH (80°-90°)	41.9	1.3			G1/100
BL (0°-30°)	155.0	4.6	B1/500		
BM (30°-60°)	355.9	10.6	B1/1000		
BH (60°-80°)	210.8	6.3	B1/500		G1/500
BVH (80°-90°)	23.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9
2.5°	356.0	353.3	351.4	350.5	348.7	345.1	345.1	344.2	340.5	338.7	337.8
5°	384.2	382.4	377.8	374.2	368.7	361.5	360.5	355.1	347.8	342.3	338.7
7.5°	411.5	409.7	405.2	399.7	390.6	381.5	378.8	371.5	359.6	351.4	345.1
10°	435.2	432.5	427.0	419.7	409.7	399.7	397.0	388.8	376.9	365.1	354.2
12.5°	450.7	448.9	442.5	433.4	422.5	412.4	410.6	403.3	391.5	378.8	365.1
15°	458.0	457.1	449.8	440.7	429.7	421.6	420.6	414.3	404.3	391.5	376.0
17.5°	456.2	455.2	448.9	439.8	431.6	427.0	427.0	422.5	414.3	403.3	387.0
20°	447.0	447.0	441.6	435.2	430.7	429.7	429.7	428.8	423.4	414.3	397.9
22.5°	437.9	437.9	434.3	429.7	428.8	432.5	433.4	435.2	433.4	426.1	411.5
25°	439.8	438.9	434.3	428.8	429.7	437.9	439.8	444.3	443.4	437.9	425.2
27.5°	459.8	458.9	447.0	436.1	435.2	445.2	447.0	453.4	453.4	448.9	440.7
30°	509.9	511.7	489.8	462.5	448.9	455.2	457.1	464.3	468.0	469.8	463.4
32.5°	586.3	583.6	550.8	506.2	476.2	469.8	472.5	478.9	491.7	495.3	479.8
35°	663.7	665.6	633.7	577.2	519.9	496.2	494.4	503.5	522.6	506.2	478.9
37.5°	735.7	732.9	695.6	634.6	577.2	549.9	550.8	547.2	530.8	498.0	485.3
40°	814.0	806.7	775.7	697.4	624.6	579.1	570.9	539.9	526.3	512.6	510.8
42.5°	891.4	892.3	866.8	789.4	681.0	600.0	587.3	555.4	564.5	561.8	559.9
45°	988.8	988.8	963.3	891.4	770.3	678.3	661.0	622.8	637.3	648.3	670.1
47.5°	1078.0	1072.5	1065.3	1004.3	886.8	780.3	773.0	729.3	767.5	801.2	845.8
50°	1172.7	1165.4	1160.9	1123.5	1039.8	935.1	913.2	867.7	951.5	1014.3	1097.1
52.5°	1320.2	1307.4	1283.8	1262.8	1230.1	1109.0	1081.6	1048.0	1156.3	1235.5	1404.9
55°	1453.1	1442.2	1419.4	1434.9	1430.4	1320.2	1296.5	1264.7	1382.1	1478.6	1672.6
57.5°	1502.3	1503.2	1534.2	1617.0	1660.7	1597.0	1563.3	1531.4	1630.7	1675.3	1850.1
60°	1525.1	1522.3	1602.4	1737.2	1879.2	1898.3	1855.6	1790.0	1827.3	1830.1	2000.3
62.5°	1475.9	1483.2	1593.3	1787.3	2010.3	2147.8	2141.4	2026.7	1992.1	1953.9	2040.4
65°	1289.2	1299.3	1461.3	1698.0	2031.3	2299.0	2305.3	2171.5	2075.0	1968.5	1926.6
66°	1147.2	1177.2	1357.5	1620.7	1993.0	2314.4	2326.3	2187.0	2071.3	1933.9	1836.4
67.5°	962.4	960.6	1161.8	1450.4	1886.5	2300.8	2316.3	2165.1	2022.2	1831.9	1656.2
70°	589.1	607.3	780.3	1082.6	1561.5	2130.5	2151.5	2011.2	1810.0	1551.5	1224.6
72.5°	302.3	332.3	446.1	703.8	1133.5	1760.9	1831.9	1688.9	1479.5	1122.6	747.5
75°	160.2	158.4	210.3	381.5	723.8	1321.1	1358.4	1266.5	1022.5	669.2	380.6
77.5°	85.6	90.1	110.2	195.8	397.9	844.0	891.4	816.7	582.7	342.3	182.1
80°	58.3	61.0	74.7	110.2	215.8	458.0	501.7	435.2	305.0	162.1	85.6
82.5°	37.3	39.2	51.0	68.3	129.3	222.2	234.0	223.1	149.3	92.0	51.9
85°	22.8	23.7	31.0	43.7	81.0	90.1	93.8	94.7	83.8	60.1	28.2
87.5°	10.9	11.8	17.3	21.9	38.2	32.8	30.0	31.0	46.4	35.5	12.7
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°	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9	336.9
2.5°	336.9	336.0	334.1	333.2	334.1	334.1	334.1	335.1	336.9	336.9	337.8
5°	336.9	335.1	333.2	333.2	335.1	336.9	338.7	342.3	344.2	345.1	345.1
7.5°	341.4	339.6	337.8	337.8	340.5	344.2	347.8	352.4	356.9	360.5	360.5
10°	350.5	347.8	346.0	346.9	351.4	356.0	360.5	366.0	370.6	375.1	375.1
12.5°	360.5	357.8	355.1	356.9	363.3	368.7	373.3	376.0	380.6	384.2	384.2
15°	370.6	366.0	365.1	368.7	375.1	378.8	380.6	380.6	382.4	386.0	386.0
17.5°	381.5	376.9	376.0	379.7	385.1	385.1	381.5	378.8	377.8	380.6	381.5
20°	392.4	387.9	387.9	390.6	389.7	383.3	376.9	372.4	368.7	371.5	372.4
22.5°	406.1	401.5	399.7	396.1	387.9	375.1	365.1	359.6	356.9	358.7	360.5
25°	419.7	416.1	411.5	398.8	379.7	359.6	346.9	342.3	343.3	346.9	348.7
27.5°	437.0	435.2	424.3	397.0	365.1	337.8	325.0	324.1	327.8	333.2	336.0
30°	458.0	455.2	436.1	391.5	345.1	312.3	303.2	305.0	310.5	315.0	317.8
32.5°	472.5	470.7	441.6	378.8	320.5	289.5	282.2	282.2	285.0	291.4	294.1
35°	477.1	484.4	445.2	359.6	291.4	269.5	262.2	257.7	257.7	263.1	264.9
37.5°	492.6	509.0	447.0	334.1	267.7	251.3	242.2	234.0	231.3	230.4	230.4
40°	528.1	547.2	446.1	301.4	244.9	233.1	222.2	213.1	205.8	195.8	196.7
42.5°	590.0	604.6	443.4	266.8	224.9	216.7	205.8	194.8	183.0	172.1	171.2
45°	709.3	687.4	436.1	236.7	206.7	202.1	192.1	179.4	164.8	154.8	154.8
47.5°	897.7	837.6	431.6	208.5	190.3	189.4	180.3	166.6	152.1	144.8	143.9
50°	1156.3	1045.2	438.9	188.5	175.7	178.5	171.2	158.4	146.6	140.2	139.3
52.5°	1453.1	1268.3	447.0	175.7	164.8	170.3	166.6	154.8	142.9	137.5	136.6
55°	1682.6	1449.5	435.2	163.9	153.9	162.1	162.1	151.1	141.1	135.7	135.7
57.5°	1843.7	1522.3	394.2	153.0	144.8	154.8	157.5	149.3	140.2	138.4	138.4
60°	1912.9	1518.7	322.3	142.9	138.4	147.5	154.8	147.5	142.0	146.6	147.5
62.5°	1875.6	1439.5	250.4	135.7	133.8	145.7	157.5	154.8	148.4	152.1	153.9
65°	1707.1	1300.2	188.5	129.3	128.4	146.6	164.8	159.3	143.9	144.8	145.7
66°	1612.5	1206.4	173.0	127.5	126.6	147.5	168.4	157.5	140.2	142.0	141.1
67.5°	1410.3	1058.9	152.1	123.8	122.9	147.5	173.0	153.9	135.7	138.4	135.7
70°	1034.3	749.3	130.2	119.3	117.5	144.8	172.1	146.6	125.6	123.8	119.3
72.5°	600.0	453.4	115.6	113.8	109.3	127.5	161.2	134.8	114.7	109.3	104.7
75°	295.0	230.4	102.9	107.4	95.6	112.0	145.7	124.7	105.6	98.3	95.6
77.5°	135.7	116.5	92.9	98.3	84.7	96.5	132.9	113.8	93.8	82.9	80.1
80°	73.7	72.8	78.3	81.9	71.0	84.7	117.5	99.2	79.2	67.4	63.7
82.5°	45.5	46.4	57.4	62.8	55.5	73.7	103.8	82.9	60.1	47.3	48.3
85°	23.7	26.4	38.2	41.9	36.4	54.6	78.3	55.5	33.7	24.6	24.6
87.5°	8.2	10.9	19.1	22.8	20.0	32.8	49.2	26.4	7.3	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)