

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: P572982

Luminaire Tested: **ARCH-S-PA2-20-730-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572982
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-PA2-20-730-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3363 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

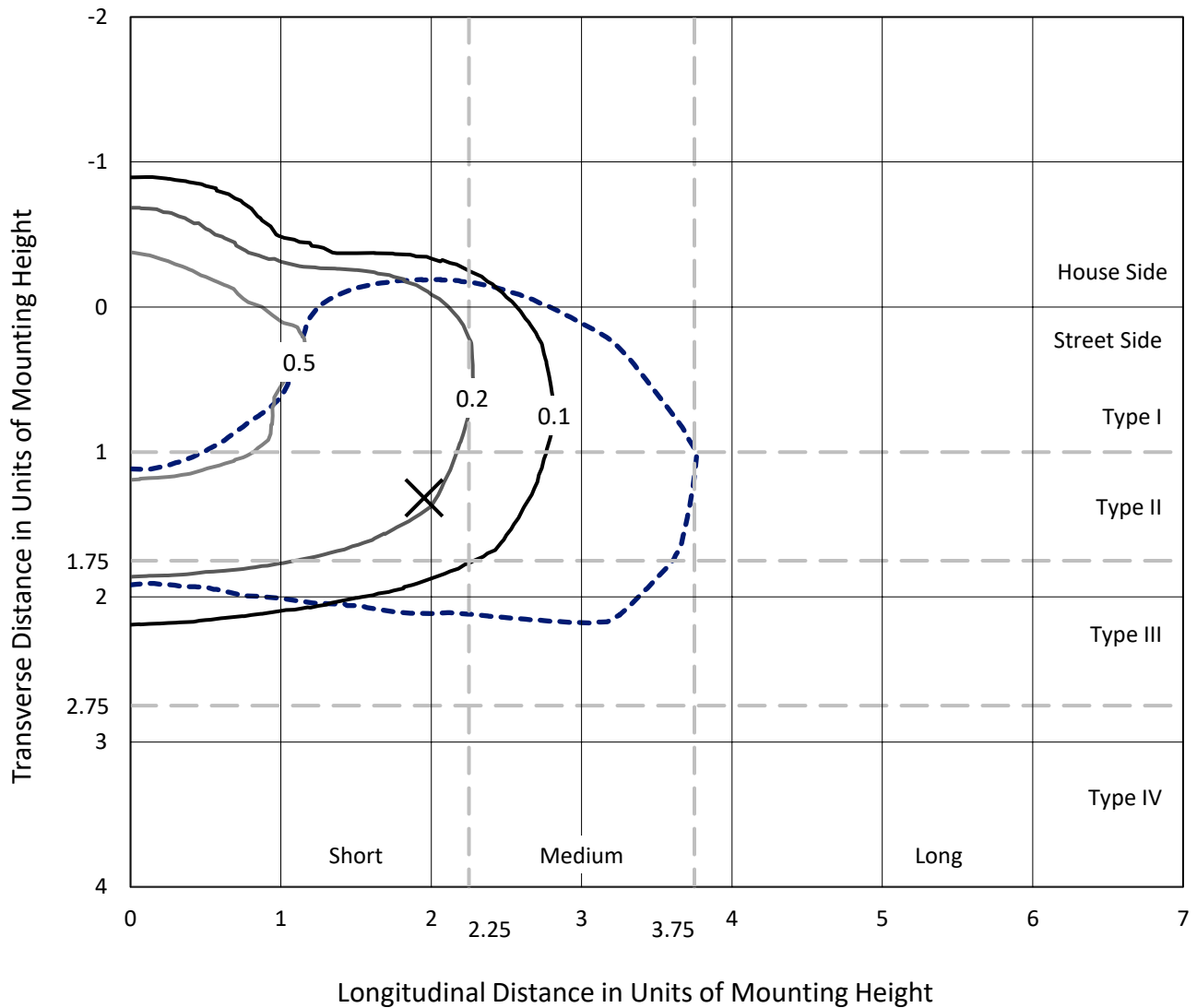
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572982
 CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

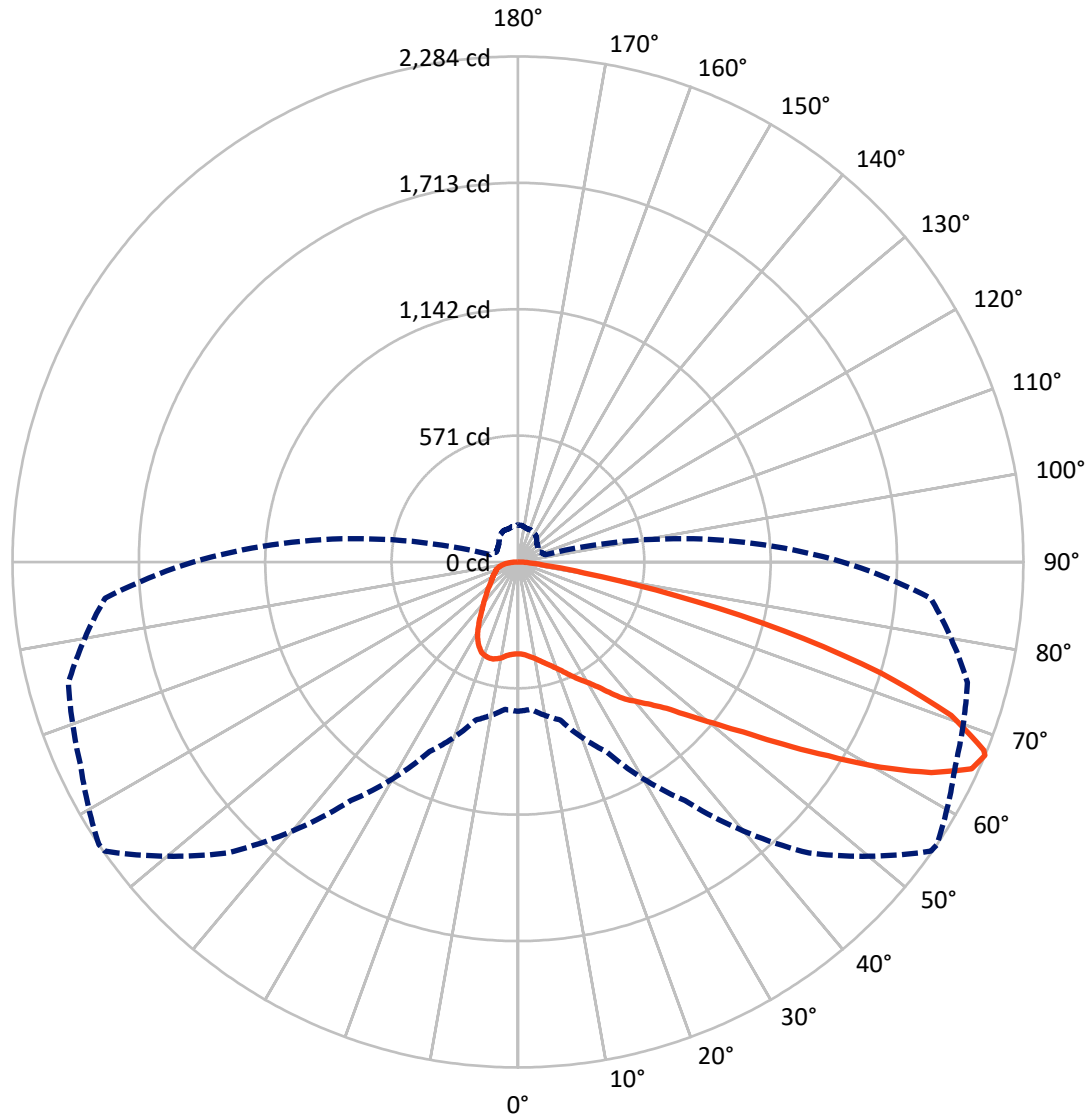
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P572982
CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572982
 CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

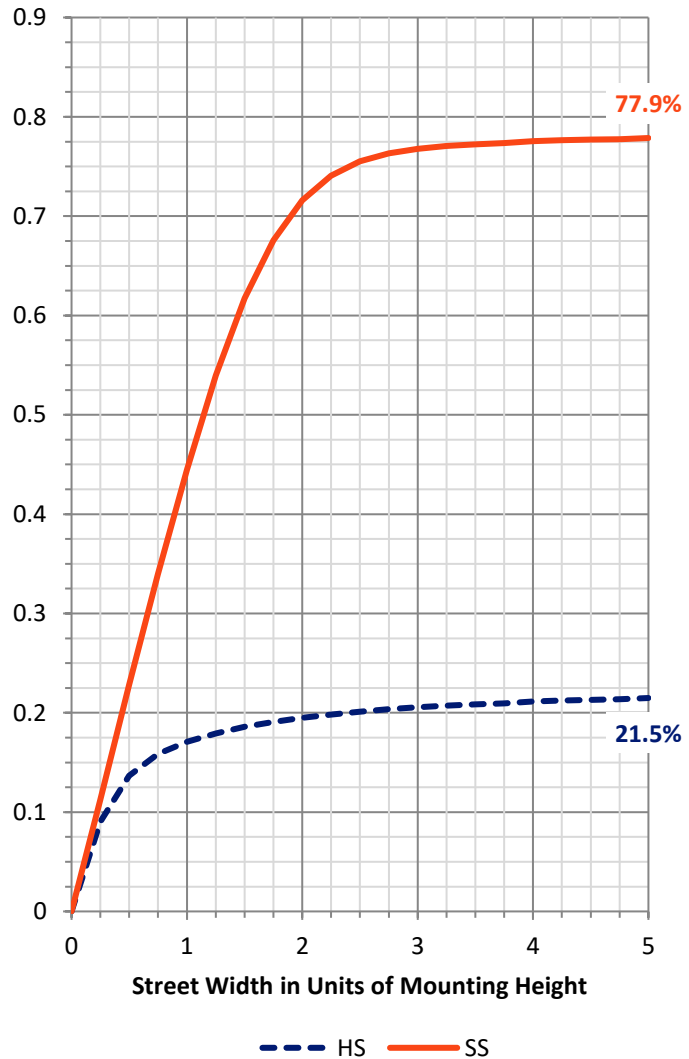
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	735.8	0.0	735.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2627.2	0.0	2627.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	3363.0	0.0	3363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	1.2
10°-20°	131.0	3.9
20°-30°	228.0	6.8
30°-40°	334.3	9.9
40°-50°	489.1	14.5
50°-60°	764.4	22.7
60°-70°	908.5	27.0
70°-80°	413.8	12.3
80°-90°	53.1	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°	3363.0	100.0
0°-180°	3363.0	100.0

Coefficient of Utilization



REPORT NUMBER: P572982

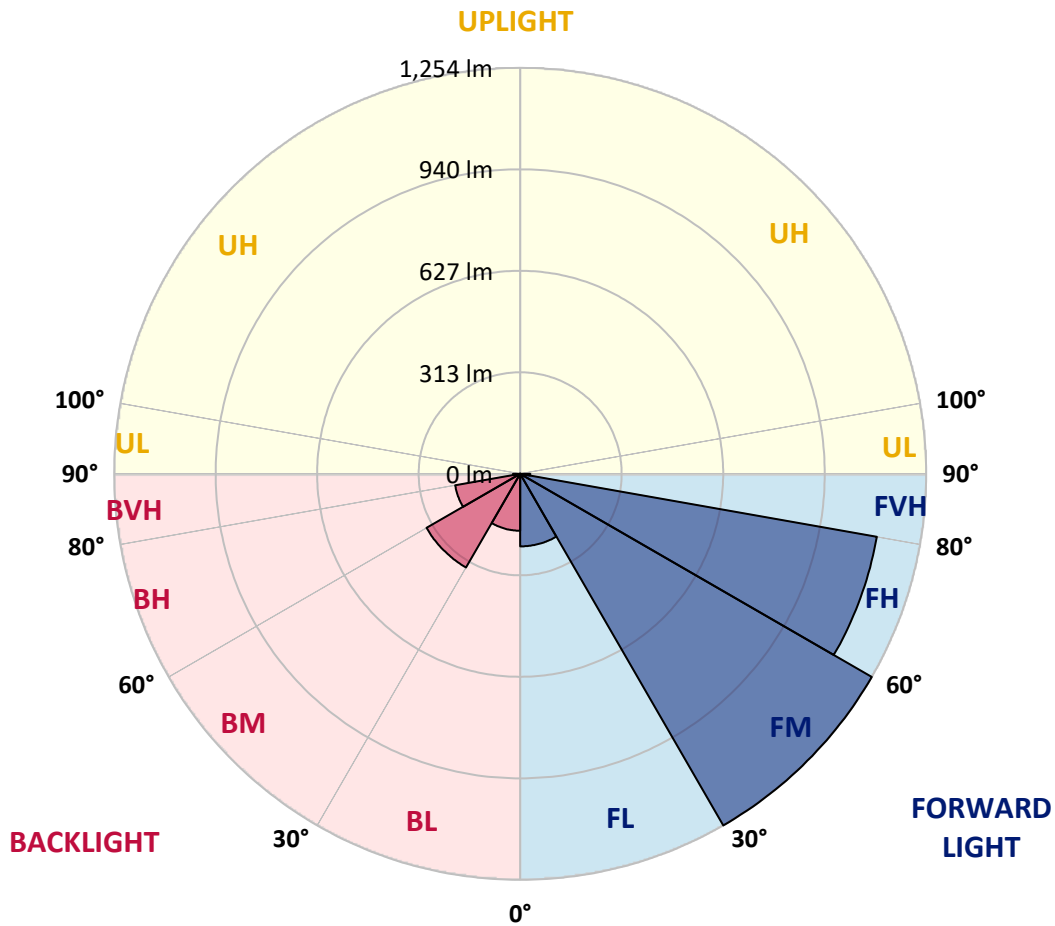
CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.0	6.7			
FM (30°-60°)	1253.8	37.3			
FH (60°-80°)	1118.5	33.3			G1/1800
FVH (80°-90°)	30.9	0.9			G1/100
BL (0°-30°)	175.8	5.2	B1/500		
BM (30°-60°)	334.0	9.9	B1/1000		
BH (60°-80°)	203.8	6.1	B1/500		G1/500
BVH (80°-90°)	22.1	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





REPORT NUMBER: P572982
 CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
2.5°	421.6	419.8	418.8	419.8	418.8	417.0	417.9	417.0	416.1	415.2	415.2
5°	427.0	425.2	424.3	425.2	426.1	424.3	424.3	424.3	421.6	420.7	418.8
7.5°	430.7	427.9	427.9	429.8	431.6	432.5	434.3	433.4	430.7	428.9	425.2
10°	442.5	438.9	438.9	438.9	440.7	442.5	444.3	445.2	444.3	443.4	440.7
12.5°	460.7	457.1	457.1	457.1	457.1	456.2	458.9	459.8	461.6	461.6	457.1
15°	485.3	480.8	478.9	475.3	474.4	472.6	476.2	476.2	478.9	479.8	475.3
17.5°	509.0	503.5	501.7	498.1	494.4	489.9	493.5	494.4	499.9	500.8	493.5
20°	533.6	531.7	529.0	523.6	517.2	512.6	516.3	515.4	519.9	521.7	512.6
22.5°	565.4	560.9	559.1	551.8	544.5	539.9	539.9	541.8	546.3	546.3	532.7
25°	603.7	597.3	592.8	584.6	575.5	570.0	570.9	572.7	579.1	574.5	553.6
27.5°	651.0	644.7	638.3	621.9	612.8	601.9	600.9	602.8	612.8	600.9	573.6
30°	695.6	692.9	687.4	674.7	660.1	641.9	633.7	634.6	641.9	625.5	590.9
32.5°	733.9	730.2	727.5	718.4	708.4	686.5	675.6	676.5	675.6	655.6	611.9
35°	779.4	773.9	772.1	763.9	751.2	736.6	732.1	730.2	724.8	697.5	639.2
37.5°	823.1	817.7	814.9	810.4	800.4	787.6	787.6	786.7	775.8	737.5	666.5
40°	875.0	868.6	860.4	857.7	849.5	840.4	833.1	828.6	809.5	774.9	719.3
42.5°	937.8	934.2	929.6	917.8	905.1	903.2	882.3	880.5	866.8	846.8	794.0
45°	1028.0	1020.7	1014.3	1010.7	995.2	978.8	949.7	942.4	942.4	937.8	881.4
47.5°	1119.0	1106.3	1115.4	1112.7	1109.0	1090.8	1034.4	1035.3	1033.4	1045.3	1009.8
50°	1180.0	1172.8	1198.2	1210.1	1235.6	1235.6	1154.5	1144.5	1151.8	1186.4	1140.9
52.5°	1227.4	1222.8	1252.0	1298.4	1374.0	1381.3	1297.5	1276.6	1286.6	1335.7	1317.5
55°	1265.6	1261.1	1294.8	1375.8	1496.9	1541.5	1462.3	1453.2	1433.2	1486.0	1491.4
57.5°	1288.4	1278.4	1329.4	1437.7	1597.1	1699.9	1655.3	1652.6	1606.2	1655.3	1679.9
60°	1253.8	1247.4	1317.5	1463.2	1678.1	1849.3	1882.1	1882.1	1799.2	1825.6	1855.6
62.5°	1141.8	1133.6	1207.4	1404.0	1688.1	1971.3	2107.0	2096.0	1984.9	1984.0	1957.6
65°	928.7	918.7	1001.6	1209.2	1561.5	1985.9	2259.0	2252.6	2124.3	2087.8	1964.0
67°	674.7	668.3	739.3	945.1	1315.7	1859.3	2278.1	2283.6	2179.8	2102.4	1872.0
67.5°	605.5	604.6	663.8	867.7	1243.8	1812.9	2265.4	2270.8	2178.9	2090.6	1835.6
70°	282.3	295.0	350.6	497.1	838.6	1427.7	2056.0	2076.9	2062.3	1954.0	1546.1
72.5°	131.1	136.6	161.2	240.4	450.7	920.5	1666.3	1716.3	1780.1	1676.3	1224.7
75°	81.0	82.9	96.5	124.7	212.2	442.5	1186.4	1241.0	1337.6	1261.1	783.1
77.5°	63.7	64.6	73.8	89.2	123.8	190.3	651.0	719.3	845.0	745.7	394.3
80°	47.3	49.2	56.5	69.2	87.4	97.4	276.8	302.3	407.9	312.3	163.9
82.5°	34.6	36.4	43.7	50.1	61.0	61.9	112.9	119.3	174.8	126.6	71.0
85°	29.1	29.1	33.7	37.3	41.0	34.6	55.5	54.6	67.4	57.4	28.2
87.5°	13.7	14.6	31.9	23.7	20.0	14.6	16.4	17.3	20.9	22.8	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P572982
 CATALOG NUMBER: ARCH-S-PA2-20-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2	415.2
2.5°	414.3	414.3	414.3	415.2	416.1	416.1	417.0	417.0	417.9	418.8	420.7
5°	417.9	417.9	417.0	417.9	419.8	420.7	422.5	424.3	426.1	427.9	428.9
7.5°	425.2	424.3	424.3	424.3	426.1	427.9	430.7	432.5	435.2	436.1	438.0
10°	438.9	437.1	437.1	438.0	438.9	436.1	435.2	434.3	437.1	438.9	440.7
12.5°	455.3	453.4	452.5	449.8	446.2	440.7	436.1	432.5	433.4	435.2	438.0
15°	472.6	468.9	467.1	460.7	451.6	439.8	432.5	427.9	427.9	427.9	430.7
17.5°	490.8	487.1	479.8	468.0	450.7	434.3	425.2	417.0	413.4	412.5	414.3
20°	508.1	502.6	490.8	472.6	445.2	423.4	411.6	397.9	392.4	388.8	390.6
22.5°	524.5	517.2	500.8	472.6	436.1	407.0	386.1	367.9	358.7	356.9	357.8
25°	541.8	532.7	510.8	467.1	416.1	382.4	353.3	334.2	322.3	320.5	323.2
27.5°	559.1	545.4	519.0	452.5	393.3	348.7	317.8	299.6	293.2	289.5	290.5
30°	573.6	560.9	527.2	432.5	362.4	309.6	281.4	273.2	268.6	266.8	266.8
32.5°	592.8	580.9	532.7	408.8	326.0	274.1	255.9	249.5	245.8	241.3	242.2
35°	616.4	605.5	529.9	378.8	291.4	250.4	235.8	226.7	218.5	212.2	211.2
37.5°	648.3	640.1	516.3	342.4	259.5	233.1	218.5	206.7	194.9	184.8	183.0
40°	701.1	682.0	496.2	302.3	237.6	219.4	202.1	187.6	173.0	162.1	159.3
42.5°	768.5	728.4	468.9	261.3	219.4	204.9	187.6	168.4	154.8	144.8	144.8
45°	846.8	778.5	436.1	230.4	200.3	190.3	169.4	153.0	144.8	138.4	137.5
47.5°	939.7	828.6	394.3	205.8	184.8	177.6	156.6	146.6	141.1	135.7	134.8
50°	1064.4	896.0	363.3	184.8	169.4	163.0	153.0	144.8	139.3	135.7	134.8
52.5°	1207.4	982.5	341.4	168.4	156.6	153.9	152.1	145.7	140.2	137.5	136.6
55°	1362.1	1089.0	320.5	154.8	146.6	150.2	153.9	147.5	143.9	140.2	138.4
57.5°	1507.8	1179.1	286.8	143.0	139.3	145.7	153.0	148.4	143.9	141.1	140.2
60°	1607.1	1224.7	240.4	132.0	132.0	139.3	150.2	143.9	139.3	140.2	140.2
62.5°	1638.9	1207.4	190.3	122.0	124.7	132.0	142.0	138.4	136.6	141.1	141.1
65°	1591.6	1137.2	152.1	113.8	117.5	122.9	137.5	141.1	146.6	156.6	157.5
67°	1467.8	1024.3	128.4	107.4	111.1	120.2	143.0	155.7	155.7	166.6	166.6
67.5°	1431.3	986.1	124.7	105.6	110.2	120.2	145.7	159.3	155.7	168.4	168.4
70°	1163.6	775.8	105.6	100.2	106.5	126.6	157.5	160.3	152.1	163.9	163.0
72.5°	863.2	560.9	96.5	94.7	99.2	119.3	156.6	153.9	142.0	145.7	143.0
75°	533.6	325.1	89.2	87.4	90.1	105.6	144.8	140.2	126.6	123.8	121.1
77.5°	257.7	164.8	76.5	79.2	81.9	92.0	127.5	122.9	111.1	104.7	103.8
80°	112.0	84.7	65.6	70.1	71.0	78.3	105.6	100.2	89.2	79.2	79.2
82.5°	55.5	47.3	51.9	58.3	56.5	62.8	82.9	73.8	65.6	54.6	52.8
85°	25.5	27.3	38.2	43.7	38.2	39.2	56.5	51.9	41.0	31.0	31.9
87.5°	9.1	12.7	21.9	26.4	19.1	18.2	30.0	21.9	12.7	3.6	4.6
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)