

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: P573032

Luminaire Tested: **ARCH-S-PA2-20-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2945 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

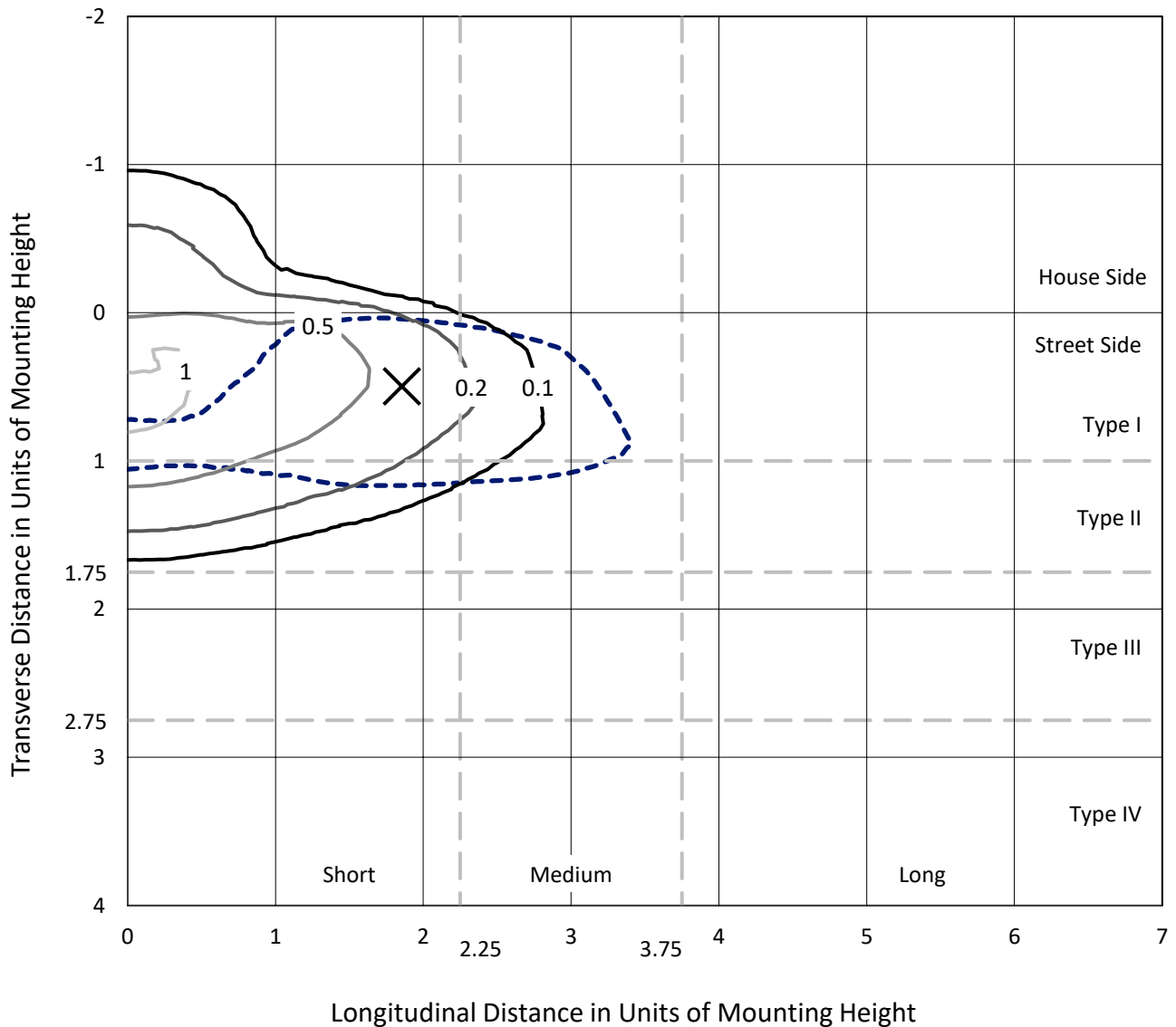
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

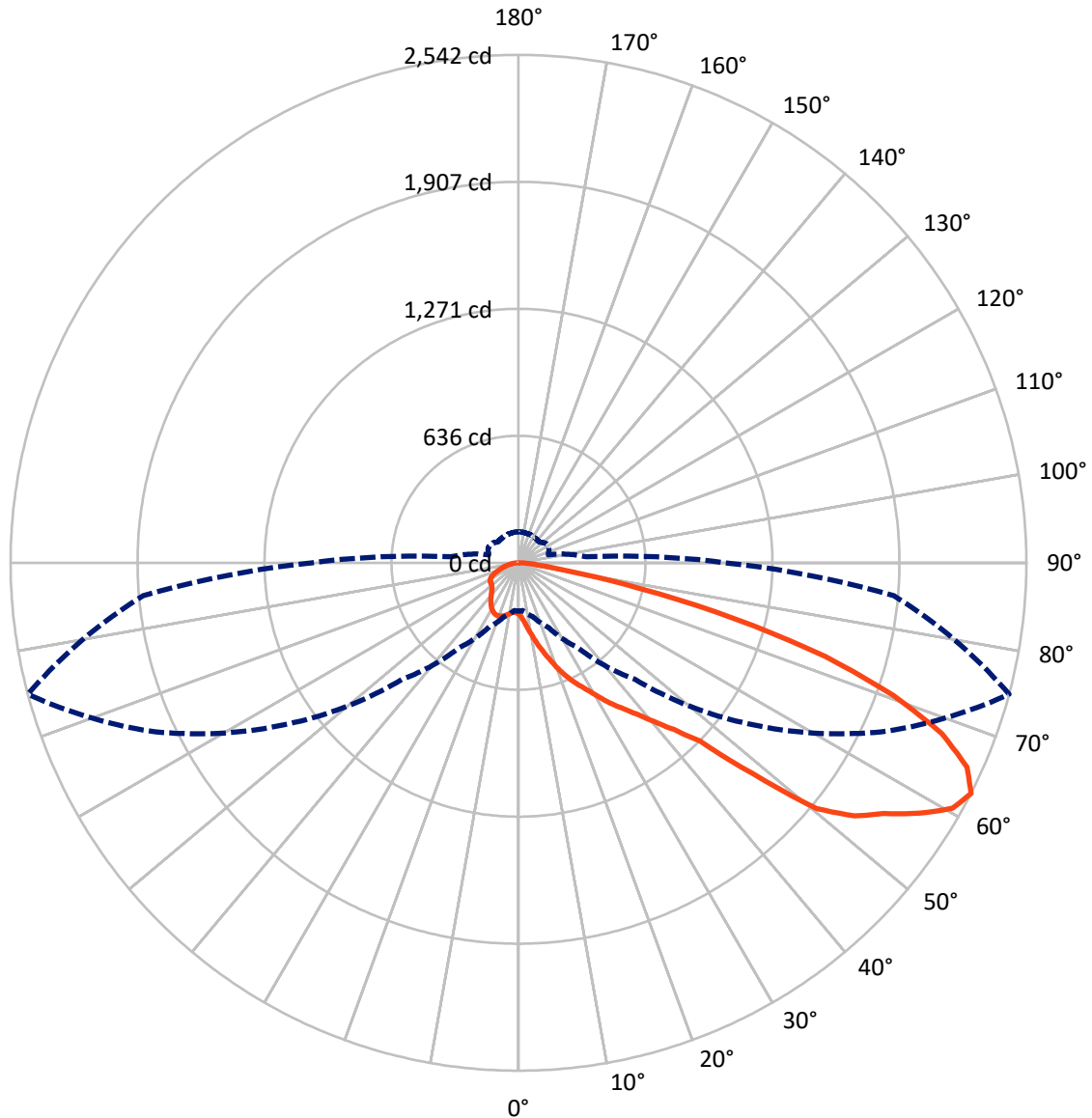
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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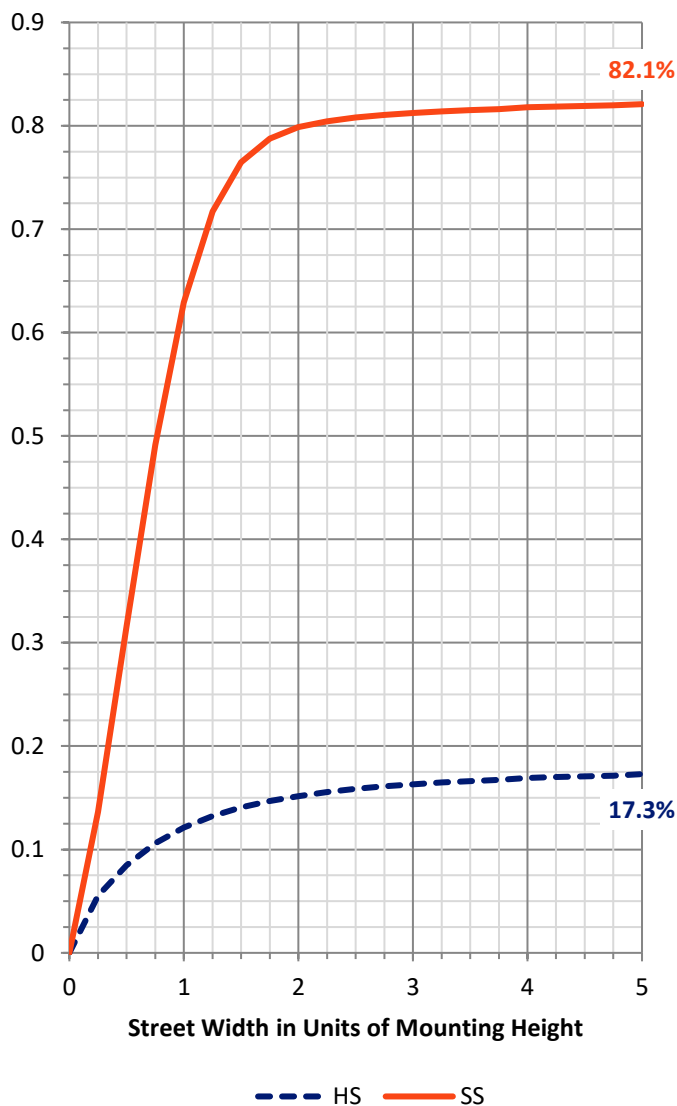
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	519.4	0.0	519.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	2425.6	0.0	2425.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	2945.0	0.0	2945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	1.0
10°-20°	121.9	4.1
20°-30°	241.1	8.2
30°-40°	401.9	13.6
40°-50°	593.0	20.1
50°-60°	712.9	24.2
60°-70°	554.0	18.8
70°-80°	245.1	8.3
80°-90°	44.4	1.5
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°	2945.0	100.0
0°-180°	2945.0	100.0

Coefficient of Utilization



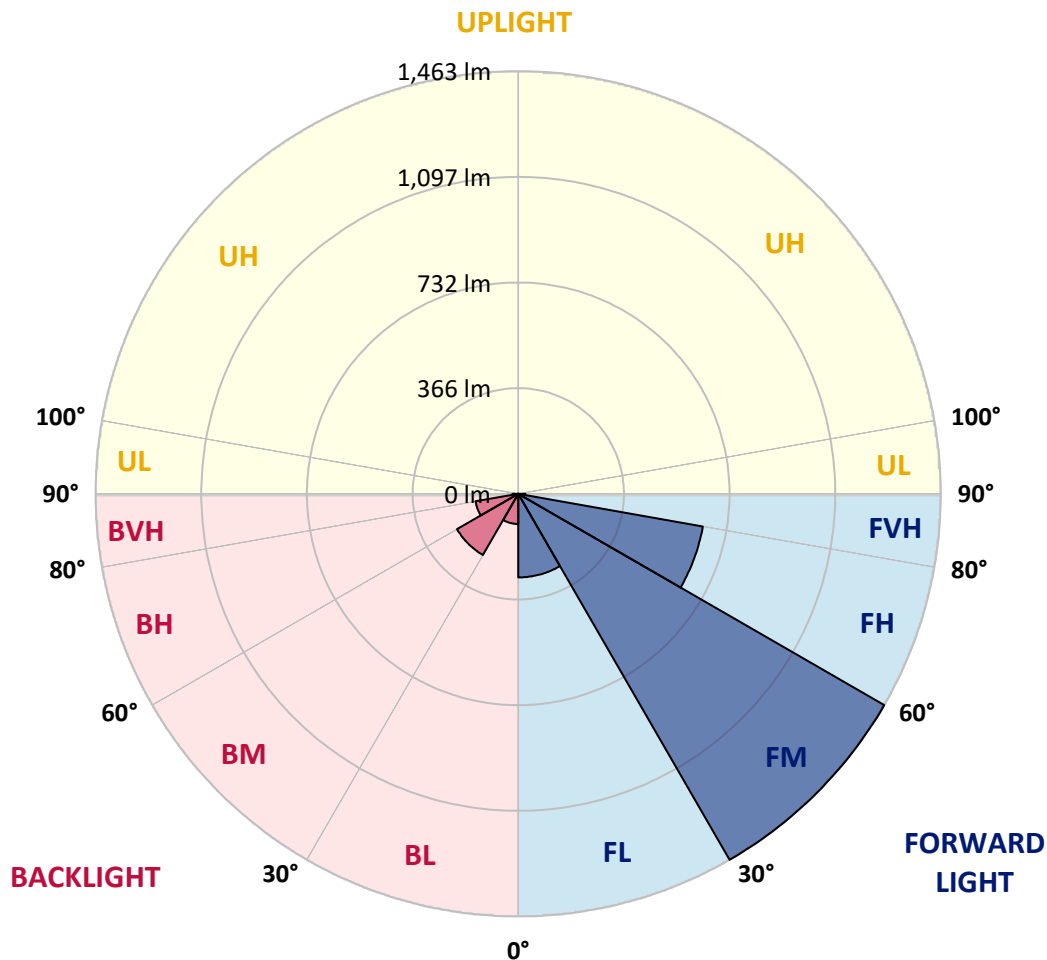
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.3	9.8			
FM (30°-60°)	1463.1	49.7			
FH (60°-80°)	648.8	22.0			G0/660
FVH (80°-90°)	24.4	0.8			G1/100
BL (0°-30°)	104.5	3.5	B0/110		
BM (30°-60°)	244.6	8.3	B1/1000		
BH (60°-80°)	150.3	5.1	B1/500		G1/500
BVH (80°-90°)	20.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7
2.5°	328.2	318.7	318.7	308.4	309.2	300.4	290.9	281.3	271.0	263.1	259.1
5°	429.2	422.0	419.6	407.7	388.6	367.2	344.1	320.3	295.6	276.6	267.0
7.5°	523.7	518.2	515.0	501.5	475.3	452.2	415.7	371.9	329.8	294.1	279.8
10°	593.7	589.7	583.4	577.0	557.9	538.0	492.7	430.8	368.8	315.5	294.1
12.5°	644.5	639.0	639.0	638.2	625.5	607.2	565.1	498.3	414.1	339.4	310.0
15°	678.7	677.9	680.3	685.1	681.9	670.0	627.9	560.3	460.2	366.4	328.2
17.5°	704.2	701.0	705.7	718.5	728.0	723.2	688.3	619.9	511.0	395.8	348.1
20°	732.0	725.6	732.0	747.9	759.8	766.9	750.2	677.1	565.9	427.6	367.2
22.5°	785.2	784.4	781.2	786.0	794.0	806.7	797.1	735.1	619.1	459.4	389.4
25°	880.6	871.8	863.1	852.8	844.0	848.0	840.1	789.2	667.6	494.3	408.5
27.5°	987.1	977.5	961.7	936.2	912.4	898.1	881.4	836.1	714.5	526.1	426.8
30°	1084.8	1081.7	1057.8	1030.0	988.7	962.4	930.7	890.1	770.9	561.1	445.9
32.5°	1176.2	1169.9	1146.0	1116.6	1068.2	1038.7	995.0	948.9	835.3	604.0	465.7
35°	1254.9	1248.6	1220.7	1183.4	1141.3	1115.8	1065.8	1001.4	894.1	641.4	482.4
37.5°	1314.5	1307.4	1281.1	1244.6	1207.2	1195.3	1152.4	1068.2	960.9	688.3	503.1
40°	1347.9	1339.2	1321.7	1296.2	1265.3	1259.7	1241.4	1150.8	1045.1	745.5	533.3
42.5°	1351.9	1343.9	1334.4	1332.0	1329.6	1334.4	1343.1	1244.6	1141.3	821.8	577.8
45°	1316.9	1312.1	1312.9	1340.0	1377.3	1421.0	1473.5	1382.9	1270.8	967.2	677.9
47.5°	1242.2	1239.8	1257.3	1302.6	1386.1	1485.4	1634.0	1619.7	1577.6	1201.7	806.7
50°	1121.4	1117.4	1154.8	1226.3	1345.5	1506.9	1742.1	1898.7	1933.6	1383.7	890.9
52.5°	948.1	952.9	1010.9	1108.7	1252.5	1483.8	1786.6	2013.1	2105.3	1518.0	955.3
55°	770.9	763.8	816.2	937.0	1115.0	1399.6	1795.4	2079.1	2216.6	1642.0	1018.1
57.5°	561.9	579.4	635.0	744.7	937.8	1247.0	1744.5	2124.4	2366.0	1765.9	1076.1
60°	380.7	380.7	430.0	539.6	724.8	1061.8	1608.6	2107.7	2496.3	1862.9	1088.8
62.5°	242.4	240.0	279.8	357.6	519.0	825.0	1405.1	2002.8	2542.4	1886.0	1035.6
65°	153.4	156.6	170.9	218.6	332.2	585.7	1127.8	1793.8	2466.9	1832.7	942.6
67.5°	123.2	124.0	131.1	151.0	204.3	375.9	836.1	1505.3	2286.5	1698.4	833.7
70°	108.9	110.5	112.1	119.2	139.9	237.6	549.2	1212.0	1990.9	1464.7	716.9
72.5°	99.3	100.9	102.5	104.1	115.2	155.0	324.3	918.7	1606.2	1125.4	546.8
75°	91.4	93.0	93.0	93.8	100.1	115.2	178.0	633.4	1118.2	700.2	341.0
77.5°	81.9	82.7	82.7	84.2	90.6	90.6	110.5	391.8	620.7	317.1	172.5
80°	69.1	70.7	70.7	73.1	79.5	69.9	73.9	200.3	257.5	130.3	77.1
82.5°	50.9	54.0	55.6	59.6	63.6	53.2	53.2	100.9	108.9	58.0	41.3
85°	27.8	28.6	41.3	44.5	46.9	31.8	35.8	50.1	54.0	25.4	20.7
87.5°	7.9	8.7	19.9	24.6	22.3	13.5	15.1	19.1	19.1	7.2	5.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7	256.7
2.5°	255.9	249.6	244.0	240.0	236.0	233.7	232.9	231.3	231.3	232.1
5°	259.1	248.0	239.2	234.5	231.3	229.7	228.9	228.9	229.7	229.7
7.5°	267.0	250.3	242.4	238.4	235.2	233.7	233.7	232.9	233.7	233.7
10°	278.2	257.5	248.8	244.0	241.6	239.2	238.4	237.6	237.6	237.6
12.5°	290.1	265.4	255.9	250.3	246.4	243.2	241.6	240.0	239.2	239.2
15°	301.2	273.4	260.7	254.3	248.8	244.0	240.8	238.4	237.6	237.6
17.5°	313.1	279.0	263.9	255.1	248.0	241.6	237.6	234.5	232.9	232.9
20°	325.8	282.9	263.9	252.7	243.2	236.8	232.1	228.9	225.7	225.7
22.5°	336.2	284.5	260.7	247.2	237.6	229.7	224.9	220.9	218.6	218.6
25°	344.9	282.9	253.5	238.4	227.3	220.1	215.4	212.2	209.8	209.8
27.5°	350.5	276.6	244.8	228.9	218.6	211.4	208.2	205.0	203.5	203.5
30°	353.7	268.6	233.7	218.6	208.2	204.3	202.7	199.5	197.1	196.3
32.5°	355.3	256.7	222.5	208.2	201.1	199.5	199.5	195.5	192.3	191.5
35°	353.7	244.0	211.4	199.5	197.1	197.9	196.3	191.5	187.6	186.0
37.5°	351.3	228.9	199.5	193.1	195.5	197.1	192.3	186.0	179.6	178.0
40°	349.7	215.4	189.9	186.8	193.9	194.7	186.0	174.1	169.3	167.7
42.5°	357.6	201.9	181.2	182.0	189.9	190.7	174.8	169.3	166.1	165.3
45°	384.7	189.9	174.1	178.8	185.2	182.0	169.3	168.5	166.1	165.3
47.5°	405.3	181.2	170.9	176.4	181.2	170.1	168.5	167.7	165.3	164.5
50°	412.5	175.6	170.1	174.8	175.6	164.5	166.9	166.9	164.5	163.7
52.5°	413.3	172.5	171.7	174.1	166.9	162.1	165.3	165.3	162.9	162.1
55°	416.5	170.9	172.5	174.1	157.4	159.0	162.1	162.9	160.5	159.7
57.5°	410.1	168.5	174.1	174.8	153.4	155.8	159.0	159.0	159.0	159.0
60°	385.5	163.7	173.3	173.3	150.2	151.8	155.0	156.6	157.4	157.4
62.5°	340.2	154.2	168.5	168.5	147.0	148.6	152.6	152.6	155.0	155.0
65°	282.9	140.7	159.0	158.2	143.9	145.4	150.2	148.6	152.6	153.4
67.5°	236.0	124.0	144.6	146.2	140.7	144.6	147.8	142.3	150.2	150.2
70°	188.4	104.1	125.6	132.7	135.1	145.4	143.1	134.3	144.6	142.3
72.5°	146.2	88.2	103.3	116.0	128.8	144.6	132.7	123.2	129.5	125.6
75°	106.5	73.1	85.0	96.2	120.0	142.3	122.4	108.1	108.1	106.5
77.5°	74.7	59.6	68.3	76.3	111.3	135.9	109.7	93.0	89.0	88.2
80°	50.9	46.9	54.0	58.8	98.5	123.2	94.6	77.1	69.9	68.3
82.5°	33.4	33.4	36.6	39.7	76.3	102.5	73.9	57.2	73.9	70.7
85°	19.1	19.9	19.9	23.0	42.1	72.3	52.5	57.2	34.2	31.8
87.5°	6.4	6.4	6.4	6.4	8.7	29.4	22.3	20.7	7.9	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)