

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: P573104

Luminaire Tested: **ARCH-S-PA2-30-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573104
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-PA2-30-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

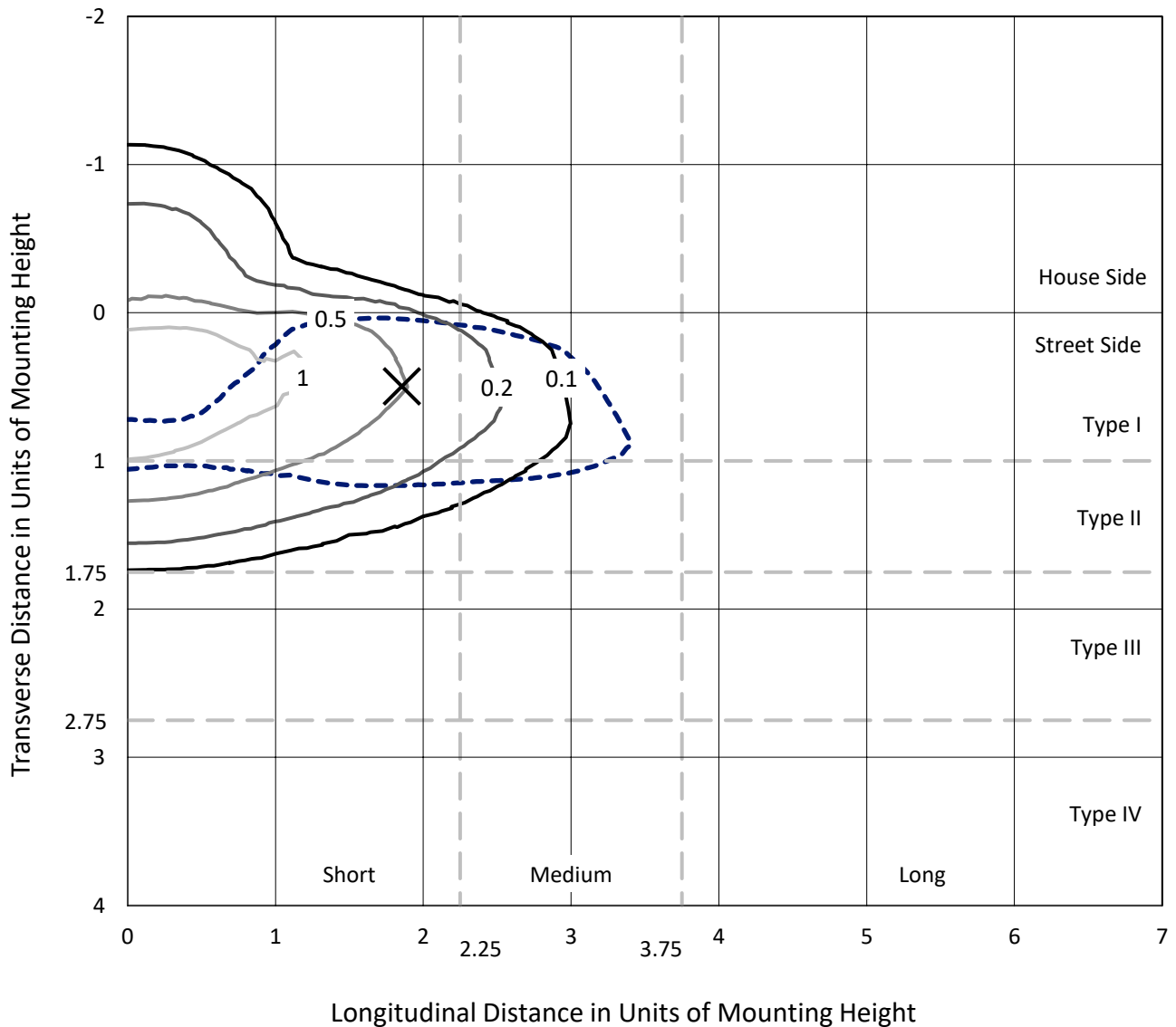
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

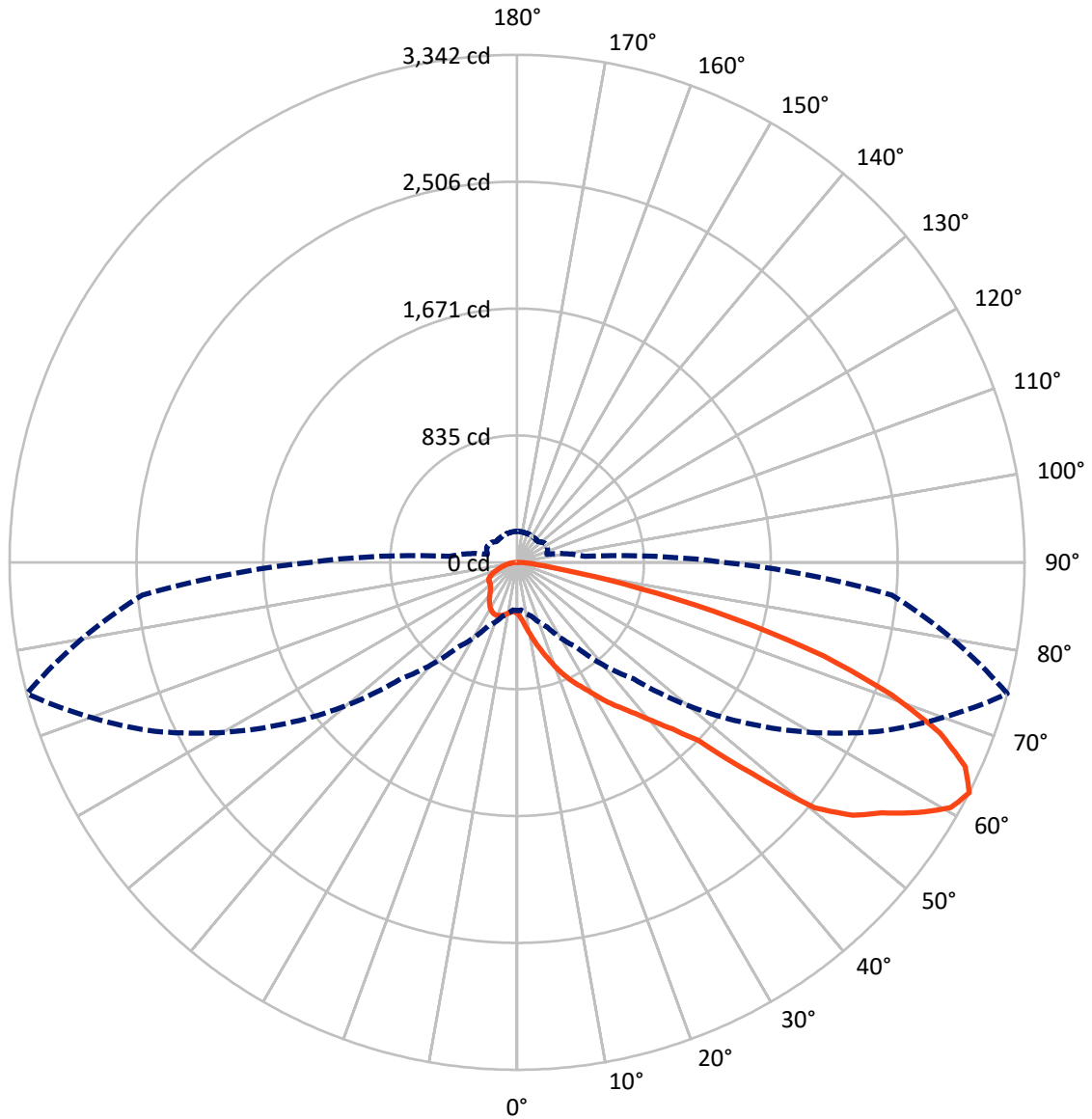
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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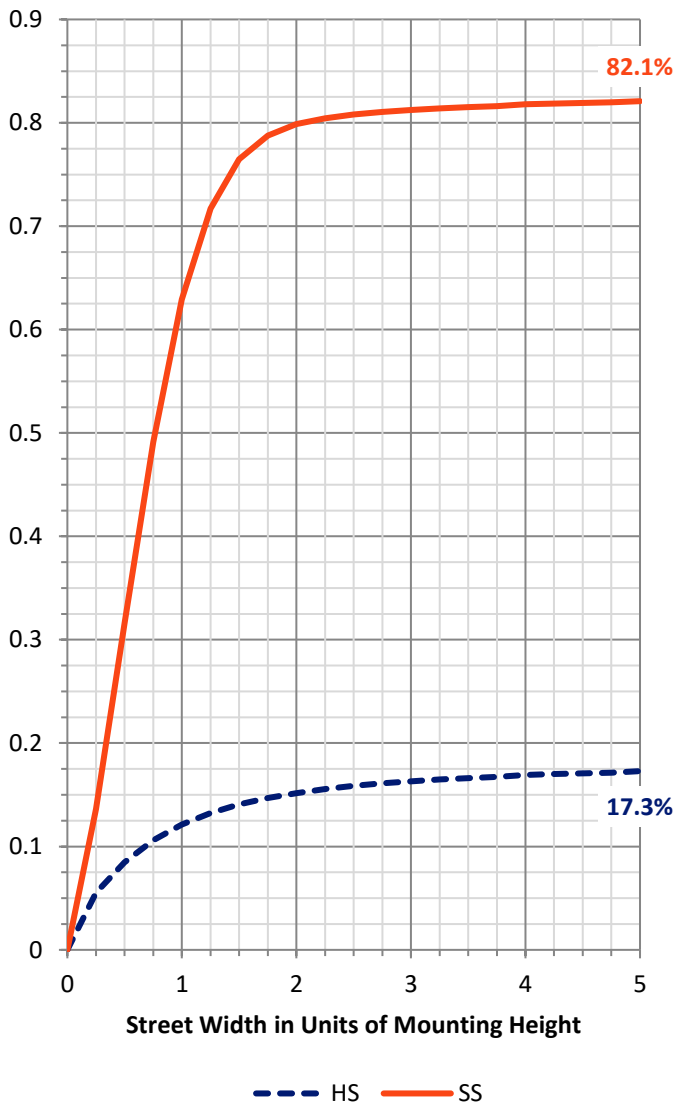
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	682.7	0.0	682.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	3188.3	0.0	3188.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	3871.0	0.0	3871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.0
10°-20°	160.2	4.1
20°-30°	316.9	8.2
30°-40°	528.2	13.6
40°-50°	779.5	20.1
50°-60°	937.0	24.2
60°-70°	728.2	18.8
70°-80°	322.2	8.3
80°-90°	58.3	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°	3871.0	100.0
0°-180°	3871.0	100.0

Coefficient of Utilization



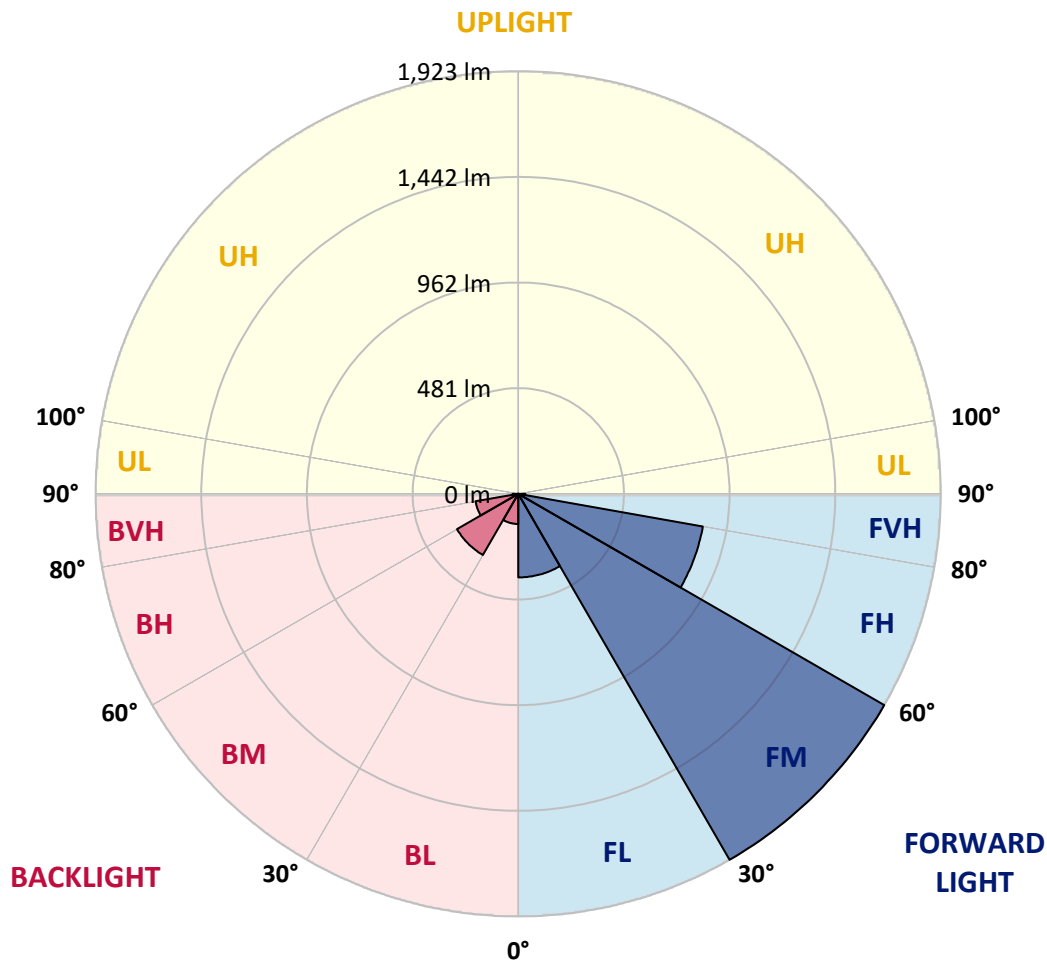
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.2	9.8			
FM (30°-60°)	1923.1	49.7			
FH (60°-80°)	852.9	22.0			G1/1800
FVH (80°-90°)	32.1	0.8			G1/100
BL (0°-30°)	137.4	3.5	B1/500		
BM (30°-60°)	321.6	8.3	B1/1000		
BH (60°-80°)	197.5	5.1	B1/500		G1/500
BVH (80°-90°)	26.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4
2.5°	431.4	418.9	418.9	405.3	406.4	394.9	382.3	369.8	356.2	345.8	340.6
5°	564.1	554.7	551.6	535.9	510.8	482.6	452.3	421.0	388.6	363.5	351.0
7.5°	688.4	681.1	676.9	659.2	624.7	594.4	546.4	488.9	433.5	386.5	367.7
10°	780.4	775.1	766.8	758.4	733.3	707.2	647.7	566.2	484.7	414.7	386.5
12.5°	847.2	839.9	839.9	838.9	822.1	798.1	742.7	655.0	544.3	446.1	407.4
15°	892.1	891.1	894.2	900.5	896.3	880.6	825.3	736.5	604.9	481.6	431.4
17.5°	925.6	921.4	927.7	944.4	956.9	950.6	904.7	814.8	671.7	520.2	457.6
20°	962.1	953.8	962.1	983.0	998.7	1008.1	986.2	890.0	743.8	562.0	482.6
22.5°	1032.1	1031.1	1026.9	1033.2	1043.6	1060.3	1047.8	966.3	813.8	603.8	511.9
25°	1157.5	1146.0	1134.5	1120.9	1109.4	1114.6	1104.2	1037.3	877.5	649.8	537.0
27.5°	1297.5	1284.9	1264.0	1230.6	1199.3	1180.5	1158.5	1099.0	939.1	691.6	561.0
30°	1425.9	1421.8	1390.4	1353.9	1299.5	1265.1	1223.3	1170.0	1013.3	737.5	586.0
32.5°	1546.1	1537.7	1506.4	1467.7	1404.0	1365.4	1307.9	1247.3	1097.9	793.9	612.2
35°	1649.5	1641.1	1604.6	1555.5	1500.1	1466.7	1400.9	1316.3	1175.2	843.0	634.1
37.5°	1727.9	1718.5	1684.0	1635.9	1586.8	1571.2	1514.7	1404.0	1263.0	904.7	661.3
40°	1771.7	1760.2	1737.3	1703.8	1663.1	1655.8	1631.7	1512.7	1373.7	979.9	701.0
42.5°	1777.0	1766.5	1754.0	1750.8	1747.7	1754.0	1765.5	1635.9	1500.1	1080.2	759.5
45°	1731.0	1724.7	1725.8	1761.3	1810.4	1867.8	1936.8	1817.7	1670.4	1271.3	891.1
47.5°	1632.8	1629.7	1652.6	1712.2	1821.9	1952.5	2147.8	2129.0	2073.6	1579.5	1060.3
50°	1474.0	1468.8	1517.9	1611.9	1768.6	1980.7	2289.9	2495.7	2541.6	1818.7	1171.1
52.5°	1246.3	1252.5	1328.8	1457.3	1646.4	1950.4	2348.4	2646.1	2767.3	1995.3	1255.7
55°	1013.3	1003.9	1072.9	1231.6	1465.6	1839.6	2359.9	2732.8	2913.5	2158.3	1338.2
57.5°	738.6	761.6	834.7	978.8	1232.7	1639.1	2293.0	2792.4	3109.9	2321.2	1414.5
60°	500.4	500.4	565.2	709.3	952.7	1395.7	2114.4	2770.4	3281.3	2448.7	1431.2
62.5°	318.6	315.5	367.7	470.1	682.2	1084.3	1846.9	2632.5	3341.8	2479.0	1361.2
65°	201.6	205.8	224.6	287.3	436.7	769.9	1482.4	2357.8	3242.6	2409.0	1239.0
67.5°	161.9	163.0	172.4	198.5	268.5	494.1	1099.0	1978.6	3005.5	2232.4	1095.8
70°	143.1	145.2	147.3	156.7	183.9	312.4	721.9	1593.1	2616.9	1925.3	942.3
72.5°	130.6	132.7	134.8	136.8	151.5	203.7	426.2	1207.6	2111.2	1479.2	718.7
75°	120.1	122.2	122.2	123.3	131.6	151.5	234.0	832.6	1469.8	920.3	448.2
77.5°	107.6	108.6	108.6	110.7	119.1	119.1	145.2	515.0	815.9	416.8	226.7
80°	90.9	93.0	93.0	96.1	104.5	91.9	97.2	263.3	338.5	171.3	101.3
82.5°	66.9	71.0	73.1	78.3	83.6	70.0	70.0	132.7	143.1	76.3	54.3
85°	36.6	37.6	54.3	58.5	61.6	41.8	47.0	65.8	71.0	33.4	27.2
87.5°	10.4	11.5	26.1	32.4	29.3	17.8	19.8	25.1	25.1	9.4	7.3
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°	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4	337.4
2.5°	336.4	328.0	320.7	315.5	310.3	307.1	306.1	304.0	304.0	305.0
5°	340.6	325.9	314.4	308.2	304.0	301.9	300.9	300.9	301.9	301.9
7.5°	351.0	329.1	318.6	313.4	309.2	307.1	307.1	306.1	307.1	307.1
10°	365.6	338.5	327.0	320.7	317.6	314.4	313.4	312.4	312.4	312.4
12.5°	381.3	348.9	336.4	329.1	323.8	319.7	317.6	315.5	314.4	314.4
15°	395.9	359.4	342.6	334.3	327.0	320.7	316.5	313.4	312.4	312.4
17.5°	411.6	366.7	346.8	335.3	325.9	317.6	312.4	308.2	306.1	306.1
20°	428.3	371.9	346.8	332.2	319.7	311.3	305.0	300.9	296.7	296.7
22.5°	441.9	374.0	342.6	324.9	312.4	301.9	295.6	290.4	287.3	287.3
25°	453.4	371.9	333.2	313.4	298.8	289.4	283.1	278.9	275.8	275.8
27.5°	460.7	363.5	321.8	300.9	287.3	277.9	273.7	269.5	267.4	267.4
30°	464.9	353.1	307.1	287.3	273.7	268.5	266.4	262.2	259.1	258.0
32.5°	467.0	337.4	292.5	273.7	264.3	262.2	262.2	257.0	252.8	251.8
35°	464.9	320.7	277.9	262.2	259.1	260.1	258.0	251.8	246.5	244.4
37.5°	461.7	300.9	262.2	253.9	257.0	259.1	252.8	244.4	236.1	234.0
40°	459.6	283.1	249.7	245.5	254.9	255.9	244.4	228.8	222.5	220.4
42.5°	470.1	265.3	238.2	239.2	249.7	250.7	229.8	222.5	218.3	217.3
45°	505.6	249.7	228.8	235.0	243.4	239.2	222.5	221.5	218.3	217.3
47.5°	532.8	238.2	224.6	231.9	238.2	223.6	221.5	220.4	217.3	216.2
50°	542.2	230.9	223.6	229.8	230.9	216.2	219.4	219.4	216.2	215.2
52.5°	543.2	226.7	225.6	228.8	219.4	213.1	217.3	217.3	214.2	213.1
55°	547.4	224.6	226.7	228.8	206.8	208.9	213.1	214.2	211.0	210.0
57.5°	539.0	221.5	228.8	229.8	201.6	204.8	208.9	208.9	208.9	208.9
60°	506.7	215.2	227.7	227.7	197.4	199.5	203.7	205.8	206.8	206.8
62.5°	447.1	202.7	221.5	221.5	193.3	195.3	200.6	200.6	203.7	203.7
65°	371.9	184.9	208.9	207.9	189.1	191.2	197.4	195.3	200.6	201.6
67.5°	310.3	163.0	190.1	192.2	184.9	190.1	194.3	187.0	197.4	197.4
70°	247.6	136.8	165.1	174.5	177.6	191.2	188.0	176.5	190.1	187.0
72.5°	192.2	116.0	135.8	152.5	169.2	190.1	174.5	161.9	170.3	165.1
75°	140.0	96.1	111.8	126.4	157.7	187.0	160.9	142.1	142.1	140.0
77.5°	98.2	78.3	89.8	100.3	146.3	178.6	144.2	122.2	117.0	116.0
80°	66.9	61.6	71.0	77.3	129.5	161.9	124.3	101.3	91.9	89.8
82.5°	43.9	43.9	48.1	52.2	100.3	134.8	97.2	75.2	97.2	93.0
85°	25.1	26.1	26.1	30.3	55.4	95.1	68.9	75.2	44.9	41.8
87.5°	8.4	8.4	8.4	8.4	11.5	38.7	29.3	27.2	10.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)