

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: P573027

Luminaire Tested: **ARCH-S-PA2-20-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573027
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-PA2-20-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2715 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

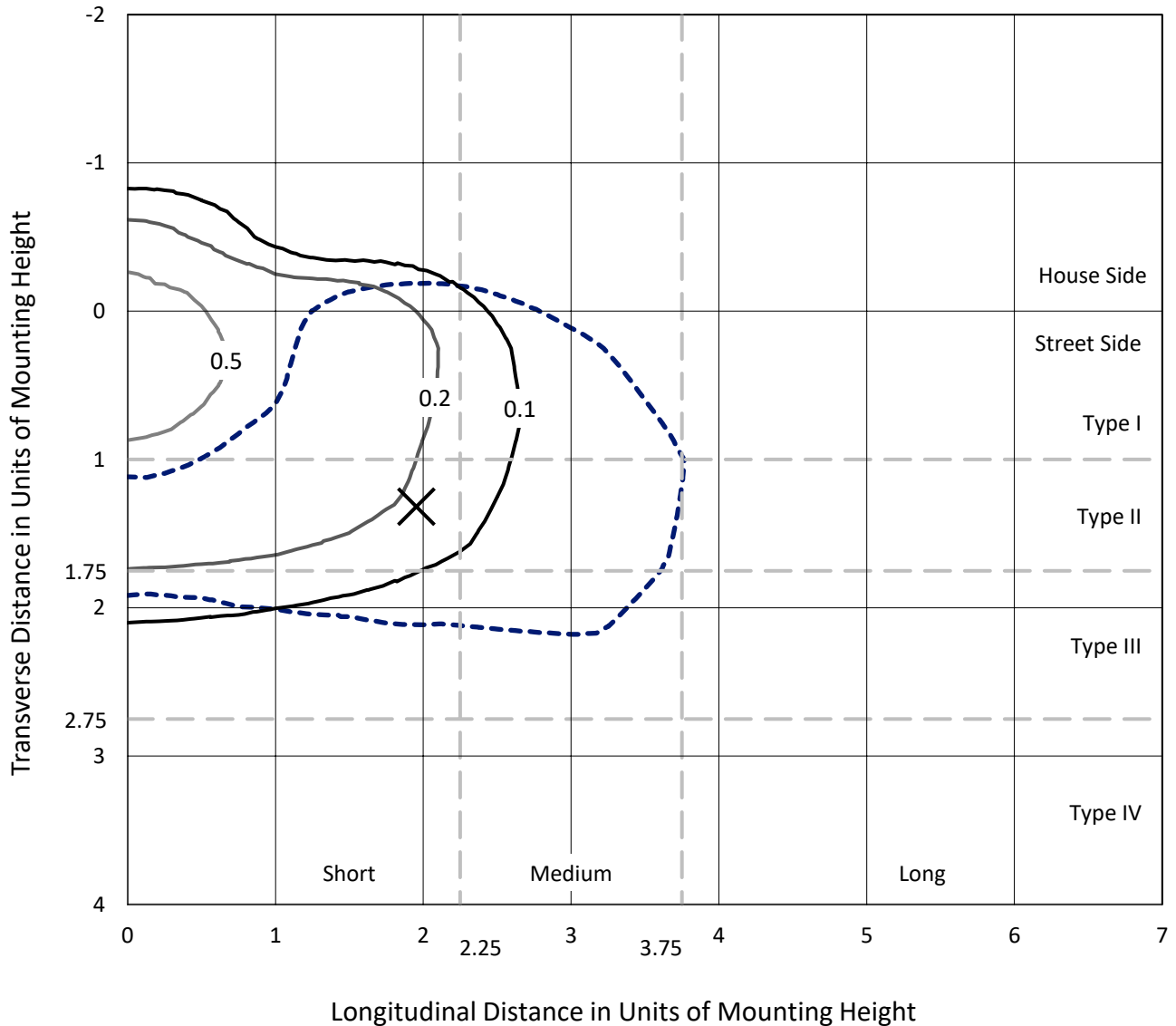
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

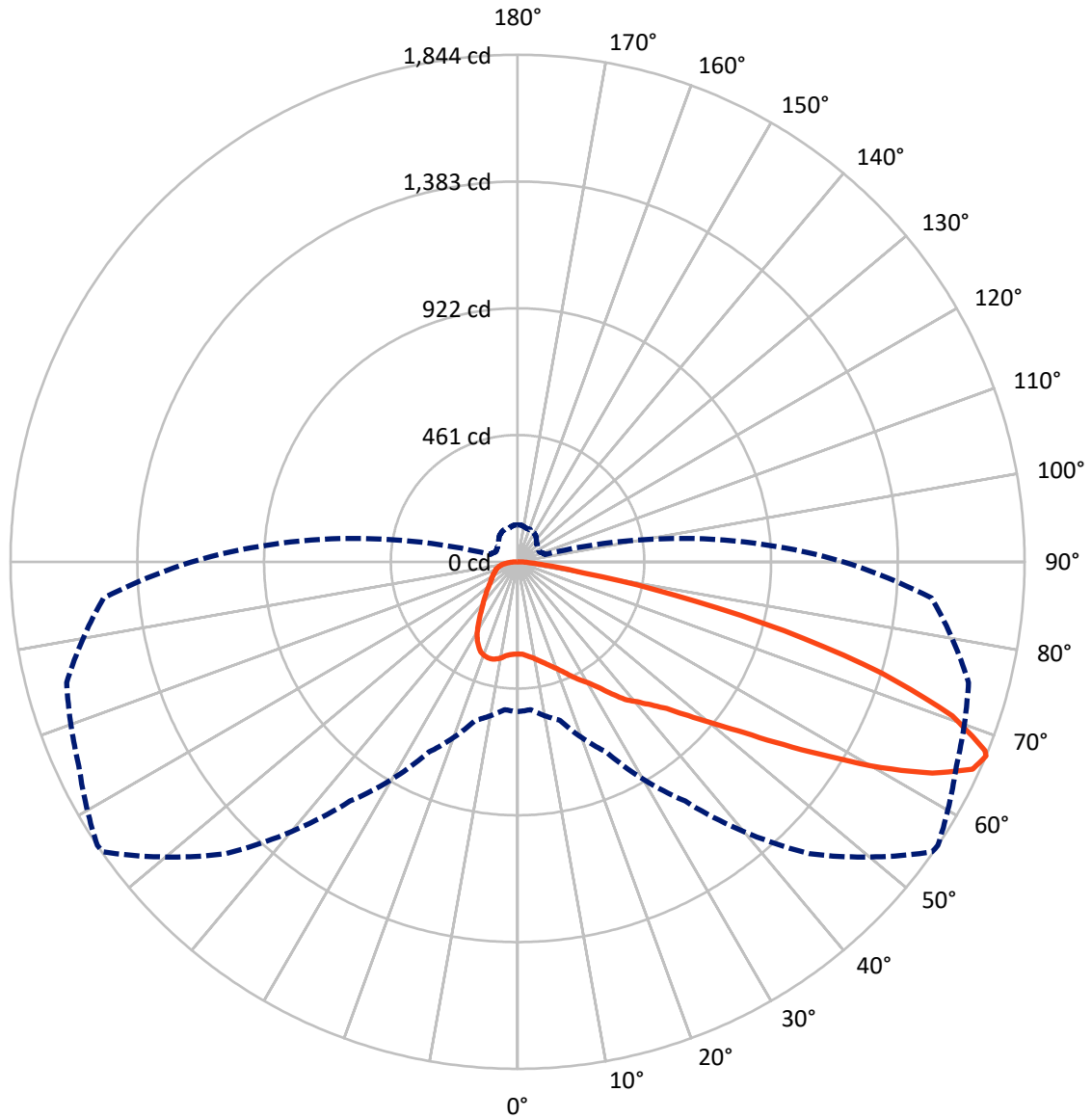
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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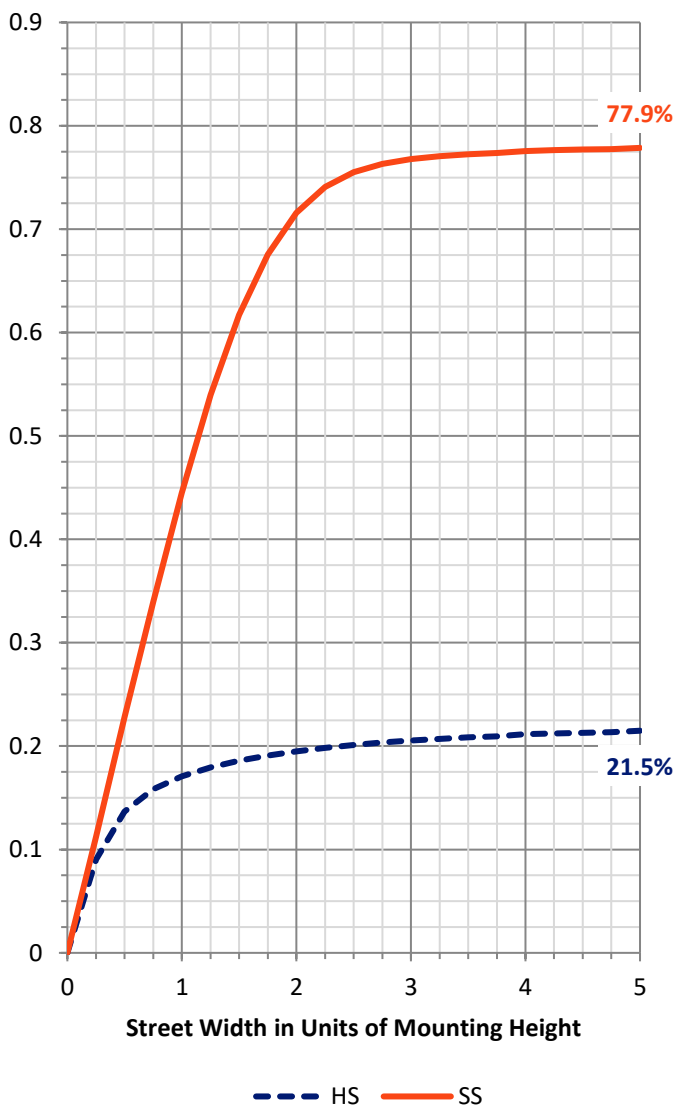
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	594.0	0.0	594.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2121.0	0.0	2121.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	2715.0	0.0	2715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	1.2
10°-20°	105.8	3.9
20°-30°	184.1	6.8
30°-40°	269.9	9.9
40°-50°	394.9	14.5
50°-60°	617.1	22.7
60°-70°	733.5	27.0
70°-80°	334.1	12.3
80°-90°	42.8	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°	2715.0	100.0
0°-180°	2715.0	100.0

Coefficient of Utilization



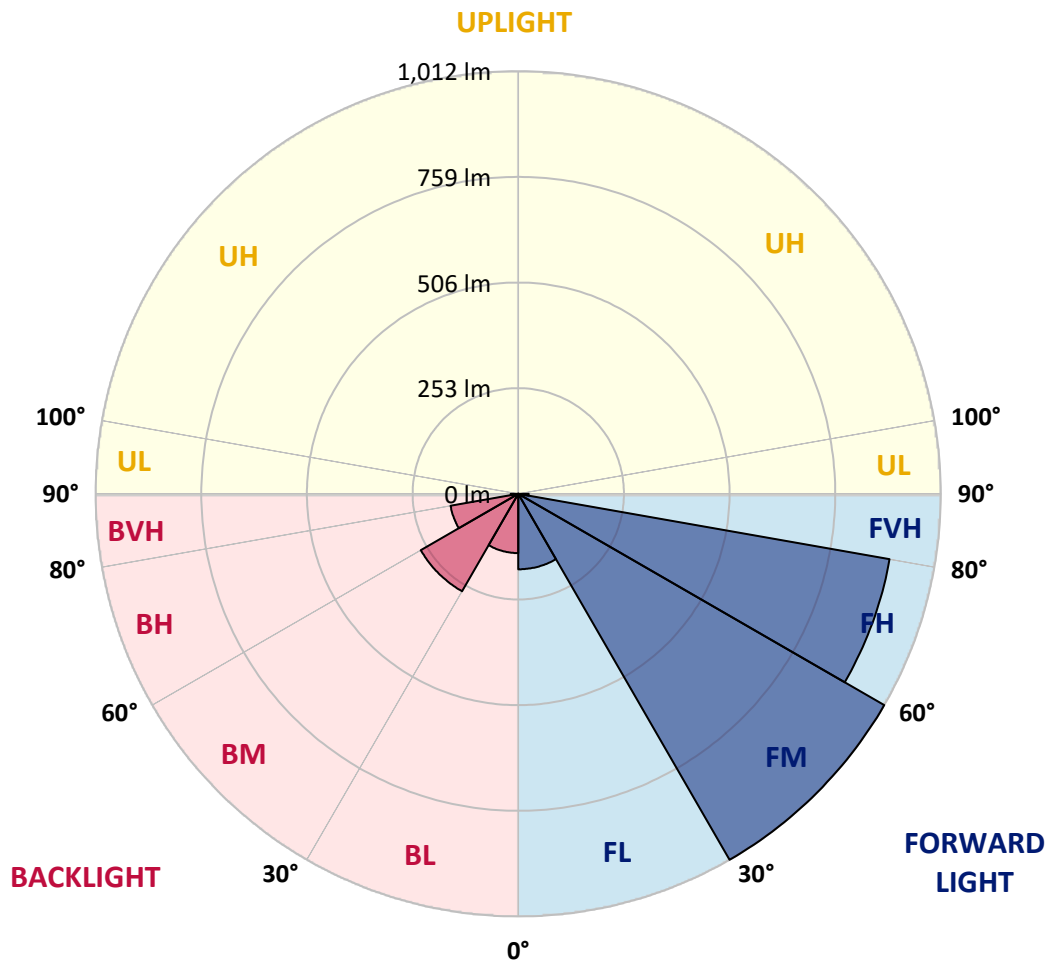
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.8	6.7			
FM (30°-60°)	1012.2	37.3			
FH (60°-80°)	903.0	33.3			G1/1800
FVH (80°-90°)	25.0	0.9			G1/100
BL (0°-30°)	142.0	5.2	B1/500		
BM (30°-60°)	269.6	9.9	B1/1000		
BH (60°-80°)	164.6	6.1	B1/500		G1/500
BVH (80°-90°)	17.9	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°	55°	56°	65°	75°	85°
0°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	340.3	338.9	338.1	338.9	338.1	336.7	337.4	336.7	335.9	335.2	335.2
5°	344.8	343.3	342.5	343.3	344.0	342.5	342.5	342.5	340.3	339.6	338.1
7.5°	347.7	345.5	345.5	347.0	348.4	349.2	350.6	349.9	347.7	346.2	343.3
10°	357.2	354.3	354.3	354.3	355.8	357.2	358.7	359.5	358.7	358.0	355.8
12.5°	372.0	369.0	369.0	369.0	369.0	368.3	370.5	371.2	372.7	372.7	369.0
15°	391.8	388.1	386.7	383.7	383.0	381.5	384.4	384.4	386.7	387.4	383.7
17.5°	410.9	406.5	405.0	402.1	399.1	395.5	398.4	399.1	403.6	404.3	398.4
20°	430.8	429.3	427.1	422.7	417.5	413.8	416.8	416.1	419.7	421.2	413.8
22.5°	456.5	452.8	451.3	445.5	439.6	435.9	435.9	437.4	441.0	441.0	430.0
25°	487.4	482.2	478.5	471.9	464.6	460.2	460.9	462.4	467.5	463.8	446.9
27.5°	525.6	520.4	515.3	502.1	494.7	485.9	485.2	486.6	494.7	485.2	463.1
30°	561.6	559.4	555.0	544.7	532.9	518.2	511.6	512.4	518.2	505.0	477.1
32.5°	592.5	589.5	587.3	580.0	571.9	554.2	545.4	546.2	545.4	529.3	494.0
35°	629.2	624.8	623.3	616.7	606.4	594.7	591.0	589.5	585.1	563.1	516.0
37.5°	664.5	660.1	657.9	654.2	646.1	635.8	635.8	635.1	626.3	595.4	538.1
40°	706.4	701.3	694.6	692.4	685.8	678.5	672.6	668.9	653.5	625.6	580.7
42.5°	757.1	754.2	750.5	741.0	730.7	729.2	712.3	710.8	699.8	683.6	641.0
45°	829.9	824.0	818.9	815.9	803.4	790.2	766.7	760.8	760.8	757.1	711.6
47.5°	903.4	893.1	900.5	898.3	895.3	880.6	835.0	835.8	834.3	843.9	815.2
50°	952.7	946.8	967.4	976.9	997.5	997.5	932.1	924.0	929.9	957.8	921.1
52.5°	990.9	987.2	1010.7	1048.2	1109.2	1115.1	1047.5	1030.6	1038.7	1078.4	1063.7
55°	1021.8	1018.1	1045.3	1110.7	1208.5	1244.5	1180.5	1173.2	1157.0	1199.6	1204.1
57.5°	1040.1	1032.1	1073.2	1160.7	1289.3	1372.4	1336.4	1334.2	1296.7	1336.4	1356.2
60°	1012.2	1007.1	1063.7	1181.3	1354.8	1492.9	1519.4	1519.4	1452.5	1473.8	1498.1
62.5°	921.8	915.2	974.7	1133.5	1362.8	1591.4	1701.0	1692.2	1602.5	1601.7	1580.4
65°	749.8	741.7	808.6	976.2	1260.7	1603.2	1823.7	1818.6	1714.9	1685.5	1585.6
67°	544.7	539.5	596.9	763.0	1062.2	1501.0	1839.2	1843.6	1759.8	1697.3	1511.3
67.5°	488.8	488.1	535.9	700.5	1004.1	1463.5	1828.9	1833.3	1759.0	1687.7	1481.9
70°	227.9	238.2	283.0	401.4	677.0	1152.6	1659.8	1676.7	1665.0	1577.5	1248.2
72.5°	105.9	110.3	130.1	194.1	363.9	743.2	1345.2	1385.6	1437.1	1353.3	988.7
75°	65.4	66.9	77.9	100.7	171.3	357.2	957.8	1001.9	1079.8	1018.1	632.2
77.5°	51.5	52.2	59.5	72.0	100.0	153.6	525.6	580.7	682.2	602.0	318.3
80°	38.2	39.7	45.6	55.9	70.6	78.7	223.5	244.0	329.3	252.1	132.3
82.5°	27.9	29.4	35.3	40.4	49.3	50.0	91.1	96.3	141.1	102.2	57.3
85°	23.5	23.5	27.2	30.1	33.1	27.9	44.8	44.1	54.4	46.3	22.8
87.5°	11.0	11.8	25.7	19.1	16.2	11.8	13.2	14.0	16.9	18.4	8.8
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°	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2	335.2
2.5°	334.5	334.5	334.5	335.2	335.9	335.9	336.7	336.7	337.4	338.1	339.6
5°	337.4	337.4	336.7	337.4	338.9	339.6	341.1	342.5	344.0	345.5	346.2
7.5°	343.3	342.5	342.5	342.5	344.0	345.5	347.7	349.2	351.4	352.1	353.6
10°	354.3	352.8	352.8	353.6	354.3	352.1	351.4	350.6	352.8	354.3	355.8
12.5°	367.5	366.1	365.3	363.1	360.2	355.8	352.1	349.2	349.9	351.4	353.6
15°	381.5	378.6	377.1	372.0	364.6	355.0	349.2	345.5	345.5	345.5	347.7
17.5°	396.2	393.3	387.4	377.8	363.9	350.6	343.3	336.7	333.7	333.0	334.5
20°	410.2	405.8	396.2	381.5	359.5	341.8	332.3	321.2	316.8	313.9	315.3
22.5°	423.4	417.5	404.3	381.5	352.1	328.6	311.7	297.0	289.6	288.2	288.9
25°	437.4	430.0	412.4	377.1	335.9	308.7	285.2	269.8	260.2	258.7	261.0
27.5°	451.3	440.3	419.0	365.3	317.6	281.5	256.5	241.8	236.7	233.8	234.5
30°	463.1	452.8	425.6	349.2	292.6	249.9	227.1	220.5	216.8	215.4	215.4
32.5°	478.5	469.0	430.0	330.1	263.2	221.3	206.6	201.4	198.5	194.8	195.5
35°	497.6	488.8	427.8	305.8	235.2	202.1	190.4	183.0	176.4	171.3	170.5
37.5°	523.4	516.8	416.8	276.4	209.5	188.2	176.4	166.9	157.3	149.2	147.8
40°	566.0	550.6	400.6	244.0	191.9	177.2	163.2	151.4	139.7	130.8	128.6
42.5°	620.4	588.1	378.6	211.0	177.2	165.4	151.4	136.0	125.0	116.9	116.9
45°	683.6	628.5	352.1	186.0	161.7	153.6	136.7	123.5	116.9	111.7	111.0
47.5°	758.6	668.9	318.3	166.1	149.2	143.3	126.4	118.3	113.9	109.5	108.8
50°	859.3	723.3	293.3	149.2	136.7	131.6	123.5	116.9	112.5	109.5	108.8
52.5°	974.7	793.2	275.7	136.0	126.4	124.2	122.8	117.6	113.2	111.0	110.3
55°	1099.7	879.2	258.7	125.0	118.3	121.3	124.2	119.1	116.1	113.2	111.7
57.5°	1217.3	951.9	231.5	115.4	112.5	117.6	123.5	119.8	116.1	113.9	113.2
60°	1297.4	988.7	194.1	106.6	106.6	112.5	121.3	116.1	112.5	113.2	113.2
62.5°	1323.1	974.7	153.6	98.5	100.7	106.6	114.7	111.7	110.3	113.9	113.9
65°	1284.9	918.1	122.8	91.9	94.8	99.2	111.0	113.9	118.3	126.4	127.2
67°	1184.9	827.0	103.6	86.7	89.7	97.0	115.4	125.7	125.7	134.5	134.5
67.5°	1155.5	796.1	100.7	85.3	88.9	97.0	117.6	128.6	125.7	136.0	136.0
70°	939.4	626.3	85.3	80.9	86.0	102.2	127.2	129.4	122.8	132.3	131.6
72.5°	696.9	452.8	77.9	76.4	80.1	96.3	126.4	124.2	114.7	117.6	115.4
75°	430.8	262.4	72.0	70.6	72.8	85.3	116.9	113.2	102.2	100.0	97.8
77.5°	208.0	133.0	61.7	64.0	66.2	74.2	102.9	99.2	89.7	84.5	83.8
80°	90.4	68.4	52.9	56.6	57.3	63.2	85.3	80.9	72.0	64.0	64.0
82.5°	44.8	38.2	41.9	47.0	45.6	50.7	66.9	59.5	52.9	44.1	42.6
85°	20.6	22.1	30.9	35.3	30.9	31.6	45.6	41.9	33.1	25.0	25.7
87.5°	7.4	10.3	17.6	21.3	15.4	14.7	24.3	17.6	10.3	2.9	3.7
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)