

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: P573038

Luminaire Tested: **ARCH-S-PA2-20-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573038
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-PA2-20-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 2924 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

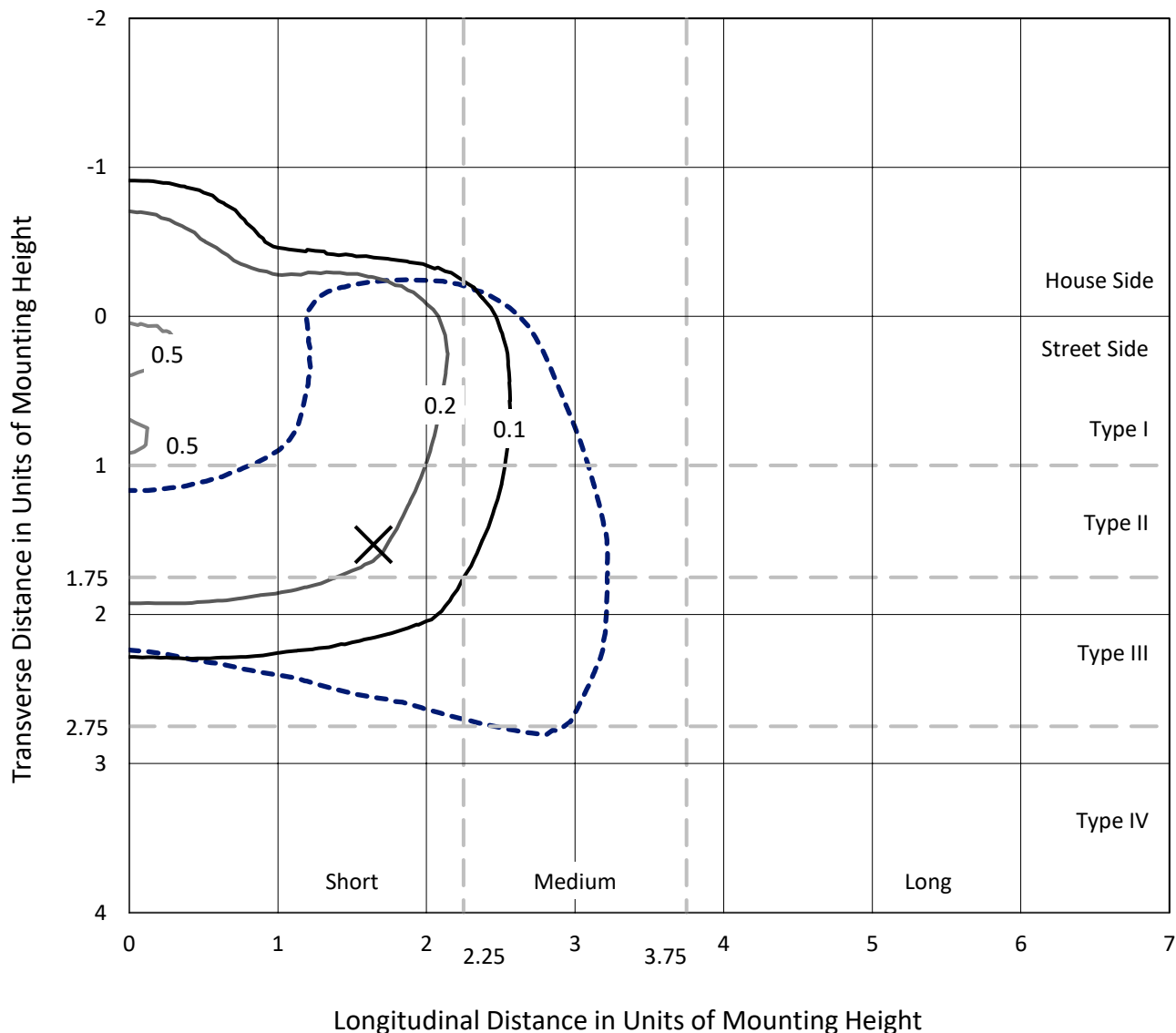
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

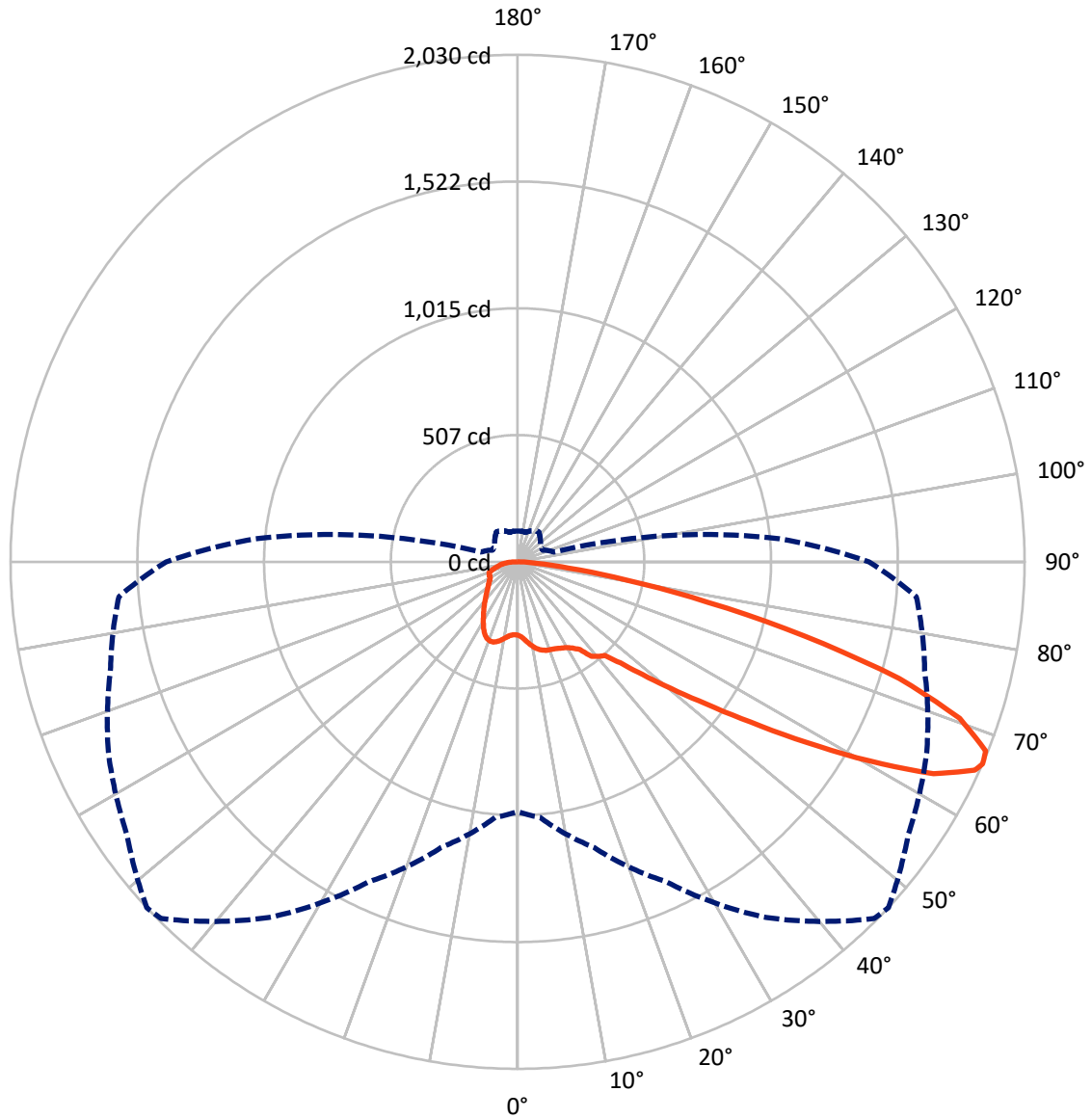
× Max cd
 - - - 1/2 Max cd



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

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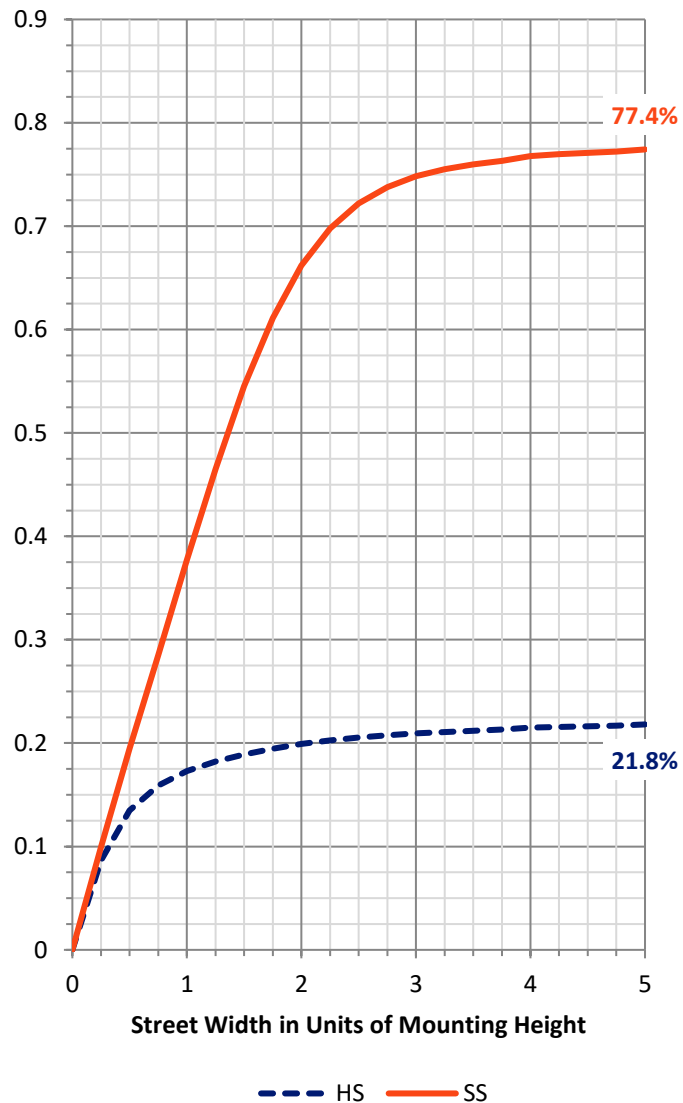
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.1	0.0	650.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	2273.9	0.0	2273.9
	% Fixture	77.8	0.0	77.8
Total	Lumens	2924.0	0.0	2924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	1.0
10°-20°	98.1	3.4
20°-30°	163.7	5.6
30°-40°	237.7	8.1
40°-50°	363.5	12.4
50°-60°	687.1	23.5
60°-70°	887.9	30.4
70°-80°	399.1	13.6
80°-90°	56.9	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°	2924.0	100.0
0°-180°	2924.0	100.0

Coefficient of Utilization



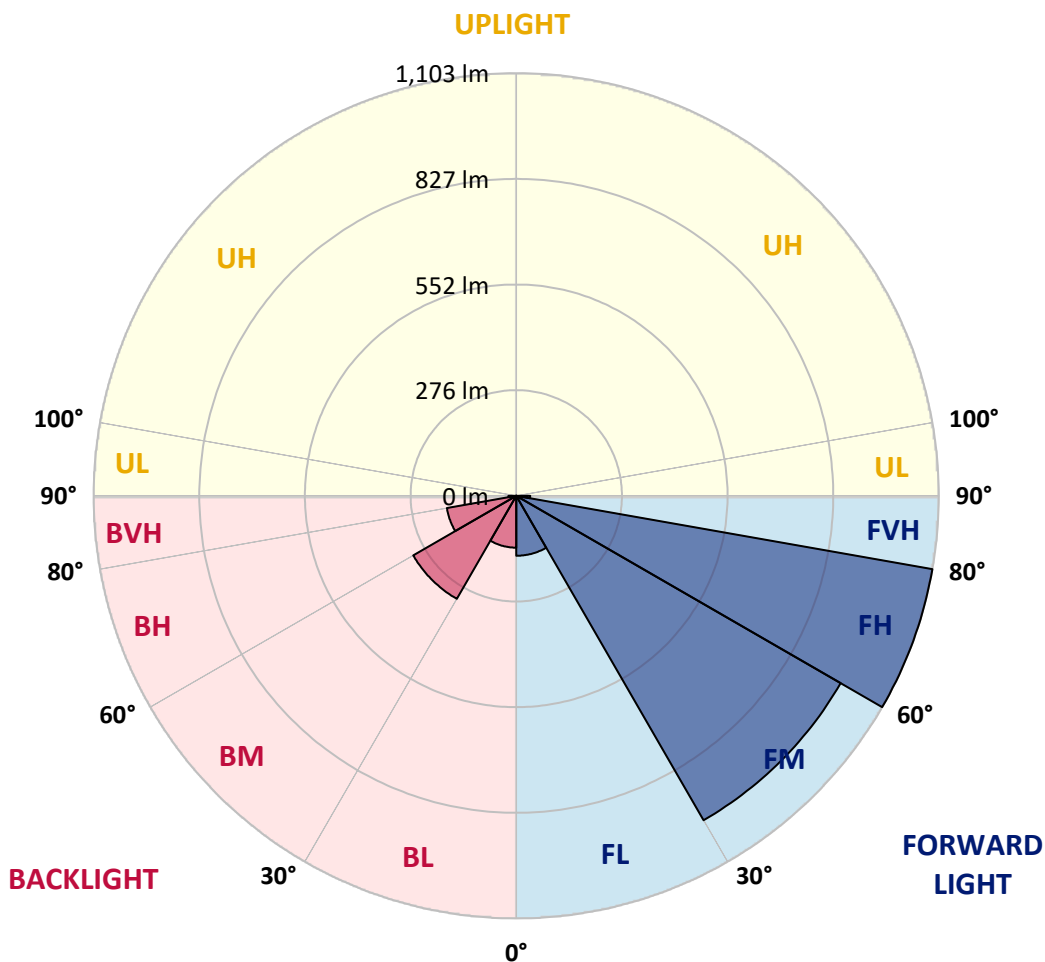
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.4	5.4			
FM (30°-60°)	977.8	33.4			
FH (60°-80°)	1103.0	37.7			G1/1800
FVH (80°-90°)	36.6	1.3			G1/100
BL (0°-30°)	135.3	4.6	B1/500		
BM (30°-60°)	310.5	10.6	B1/1000		
BH (60°-80°)	183.9	6.3	B1/500		G1/500
BVH (80°-90°)	20.4	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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	310.6	308.3	306.7	305.9	304.3	301.1	301.1	300.3	297.1	295.5	294.7
5°	335.3	333.7	329.7	326.5	321.8	315.4	314.6	309.8	303.5	298.7	295.5
7.5°	359.1	357.5	353.5	348.8	340.8	332.9	330.5	324.1	313.8	306.7	301.1
10°	379.8	377.4	372.6	366.2	357.5	348.8	346.4	339.2	328.9	318.6	309.0
12.5°	393.3	391.7	386.1	378.2	368.6	359.9	358.3	351.9	341.6	330.5	318.6
15°	399.6	398.8	392.5	384.5	375.0	367.8	367.0	361.5	352.7	341.6	328.1
17.5°	398.0	397.2	391.7	383.7	376.6	372.6	372.6	368.6	361.5	351.9	337.6
20°	390.1	390.1	385.3	379.8	375.8	375.0	375.0	374.2	369.4	361.5	347.2
22.5°	382.1	382.1	379.0	375.0	374.2	377.4	378.2	379.8	378.2	371.8	359.1
25°	383.7	382.9	379.0	374.2	375.0	382.1	383.7	387.7	386.9	382.1	371.0
27.5°	401.2	400.4	390.1	380.5	379.8	388.5	390.1	395.6	395.6	391.7	384.5
30°	444.9	446.5	427.4	403.6	391.7	397.2	398.8	405.2	408.4	409.9	404.4
32.5°	511.6	509.3	480.6	441.7	415.5	409.9	412.3	417.9	429.0	432.2	418.7
35°	579.2	580.8	552.9	503.7	453.6	433.0	431.4	439.3	456.0	441.7	417.9
37.5°	641.9	639.5	607.0	553.7	503.7	479.9	480.6	477.5	463.2	434.6	423.4
40°	710.2	703.9	676.9	608.6	545.0	505.3	498.1	471.1	459.2	447.3	445.7
42.5°	777.8	778.6	756.3	688.8	594.3	523.6	512.4	484.6	492.6	490.2	488.6
45°	862.8	862.8	840.5	777.8	672.1	591.9	576.8	543.4	556.1	565.7	584.7
47.5°	940.6	935.9	929.5	876.3	773.8	680.9	674.5	636.4	669.7	699.1	738.1
50°	1023.3	1016.9	1012.9	980.4	907.3	815.9	796.8	757.1	830.2	885.0	957.3
52.5°	1152.0	1140.8	1120.2	1101.9	1073.3	967.7	943.8	914.4	1009.0	1078.1	1225.9
55°	1268.0	1258.4	1238.6	1252.1	1248.1	1152.0	1131.3	1103.5	1206.0	1290.2	1459.4
57.5°	1310.9	1311.7	1338.7	1411.0	1449.1	1393.5	1364.1	1336.3	1422.9	1461.8	1614.3
60°	1330.7	1328.3	1398.3	1515.8	1639.8	1656.5	1619.1	1561.9	1594.5	1596.9	1745.4
62.5°	1287.8	1294.2	1390.3	1559.5	1754.2	1874.1	1868.6	1768.5	1738.3	1704.9	1780.4
65°	1125.0	1133.7	1275.1	1481.7	1772.4	2006.0	2011.6	1894.8	1810.6	1717.6	1681.1
66°	1001.0	1027.2	1184.5	1414.1	1739.1	2019.5	2029.9	1908.3	1807.4	1687.4	1602.4
67.5°	839.7	838.2	1013.7	1265.6	1646.1	2007.6	2021.1	1889.2	1764.5	1598.5	1445.1
70°	514.0	529.9	680.9	944.6	1362.5	1859.0	1877.3	1755.0	1579.4	1353.8	1068.6
72.5°	263.8	290.0	389.3	614.1	989.1	1536.5	1598.5	1473.7	1291.0	979.6	652.3
75°	139.8	138.2	183.5	332.9	631.6	1152.8	1185.3	1105.1	892.2	583.9	332.1
77.5°	74.7	78.7	96.1	170.8	347.2	736.5	777.8	712.6	508.5	298.7	158.9
80°	50.8	53.2	65.1	96.1	188.3	399.6	437.7	379.8	266.1	141.4	74.7
82.5°	32.6	34.2	44.5	59.6	112.8	193.8	204.2	194.6	130.3	80.2	45.3
85°	19.9	20.7	27.0	38.1	70.7	78.7	81.8	82.6	73.1	52.4	24.6
87.5°	9.5	10.3	15.1	19.1	33.4	28.6	26.2	27.0	40.5	31.0	11.1
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°	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0	294.0
2.5°	294.0	293.2	291.6	290.8	291.6	291.6	291.6	292.4	294.0	294.0	294.7
5°	294.0	292.4	290.8	290.8	292.4	294.0	295.5	298.7	300.3	301.1	301.1
7.5°	297.9	296.3	294.7	294.7	297.1	300.3	303.5	307.5	311.4	314.6	314.6
10°	305.9	303.5	301.9	302.7	306.7	310.6	314.6	319.4	323.3	327.3	327.3
12.5°	314.6	312.2	309.8	311.4	317.0	321.8	325.7	328.1	332.1	335.3	335.3
15°	323.3	319.4	318.6	321.8	327.3	330.5	332.1	332.1	333.7	336.9	336.9
17.5°	332.9	328.9	328.1	331.3	336.1	336.1	332.9	330.5	329.7	332.1	332.9
20°	342.4	338.4	338.4	340.8	340.0	334.5	328.9	324.9	321.8	324.1	324.9
22.5°	354.3	350.4	348.8	345.6	338.4	327.3	318.6	313.8	311.4	313.0	314.6
25°	366.2	363.1	359.1	348.0	331.3	313.8	302.7	298.7	299.5	302.7	304.3
27.5°	381.3	379.8	370.2	346.4	318.6	294.7	283.6	282.8	286.0	290.8	293.2
30°	399.6	397.2	380.5	341.6	301.1	272.5	264.6	266.1	270.9	274.9	277.3
32.5°	412.3	410.7	385.3	330.5	279.7	252.6	246.3	246.3	248.7	254.2	256.6
35°	416.3	422.7	388.5	313.8	254.2	235.2	228.8	224.8	224.8	229.6	231.2
37.5°	429.8	444.1	390.1	291.6	233.6	219.3	211.3	204.2	201.8	201.0	201.0
40°	460.8	477.5	389.3	263.0	213.7	203.4	193.8	185.9	179.5	170.8	171.6
42.5°	514.8	527.5	386.9	232.8	196.2	189.1	179.5	170.0	159.7	150.2	149.4
45°	618.9	599.8	380.5	206.6	180.3	176.4	167.6	156.5	143.8	135.1	135.1
47.5°	783.3	730.9	376.6	181.9	166.0	165.2	157.3	145.4	132.7	126.3	125.5
50°	1009.0	912.0	382.9	164.5	153.3	155.7	149.4	138.2	127.9	122.3	121.6
52.5°	1268.0	1106.7	390.1	153.3	143.8	148.6	145.4	135.1	124.7	120.0	119.2
55°	1468.2	1264.8	379.8	143.0	134.3	141.4	141.4	131.9	123.1	118.4	118.4
57.5°	1608.8	1328.3	344.0	133.5	126.3	135.1	137.4	130.3	122.3	120.8	120.8
60°	1669.2	1325.2	281.2	124.7	120.8	128.7	135.1	128.7	123.9	127.9	128.7
62.5°	1636.6	1256.0	218.5	118.4	116.8	127.1	137.4	135.1	129.5	132.7	134.3
65°	1489.6	1134.5	164.5	112.8	112.0	127.9	143.8	139.0	125.5	126.3	127.1
66°	1407.0	1052.7	150.9	111.2	110.4	128.7	147.0	137.4	122.3	123.9	123.1
67.5°	1230.6	924.0	132.7	108.0	107.3	128.7	150.9	134.3	118.4	120.8	118.4
70°	902.5	653.8	113.6	104.1	102.5	126.3	150.2	127.9	109.6	108.0	104.1
72.5°	523.6	395.6	100.9	99.3	95.3	111.2	140.6	117.6	100.1	95.3	91.4
75°	257.4	201.0	89.8	93.7	83.4	97.7	127.1	108.8	92.2	85.8	83.4
77.5°	118.4	101.7	81.0	85.8	73.9	84.2	116.0	99.3	81.8	72.3	69.9
80°	64.4	63.6	68.3	71.5	62.0	73.9	102.5	86.6	69.1	58.8	55.6
82.5°	39.7	40.5	50.1	54.8	48.5	64.4	90.6	72.3	52.4	41.3	42.1
85°	20.7	23.0	33.4	36.5	31.8	47.7	68.3	48.5	29.4	21.5	21.5
87.5°	7.2	9.5	16.7	19.9	17.5	28.6	42.9	23.0	6.4	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)