

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: P573105

Luminaire Tested: **ARCH-S-PA2-30-827-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2650 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

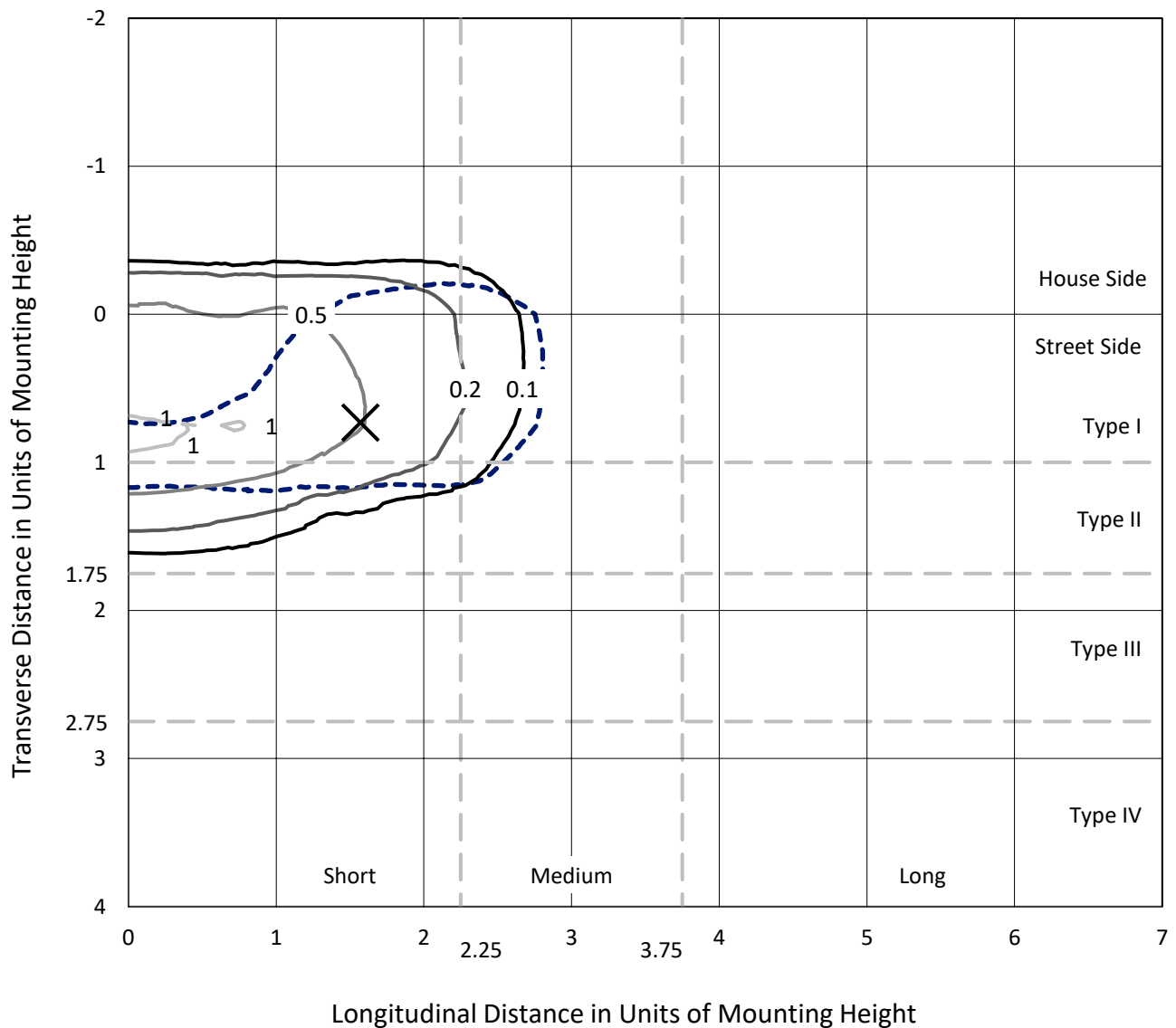
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

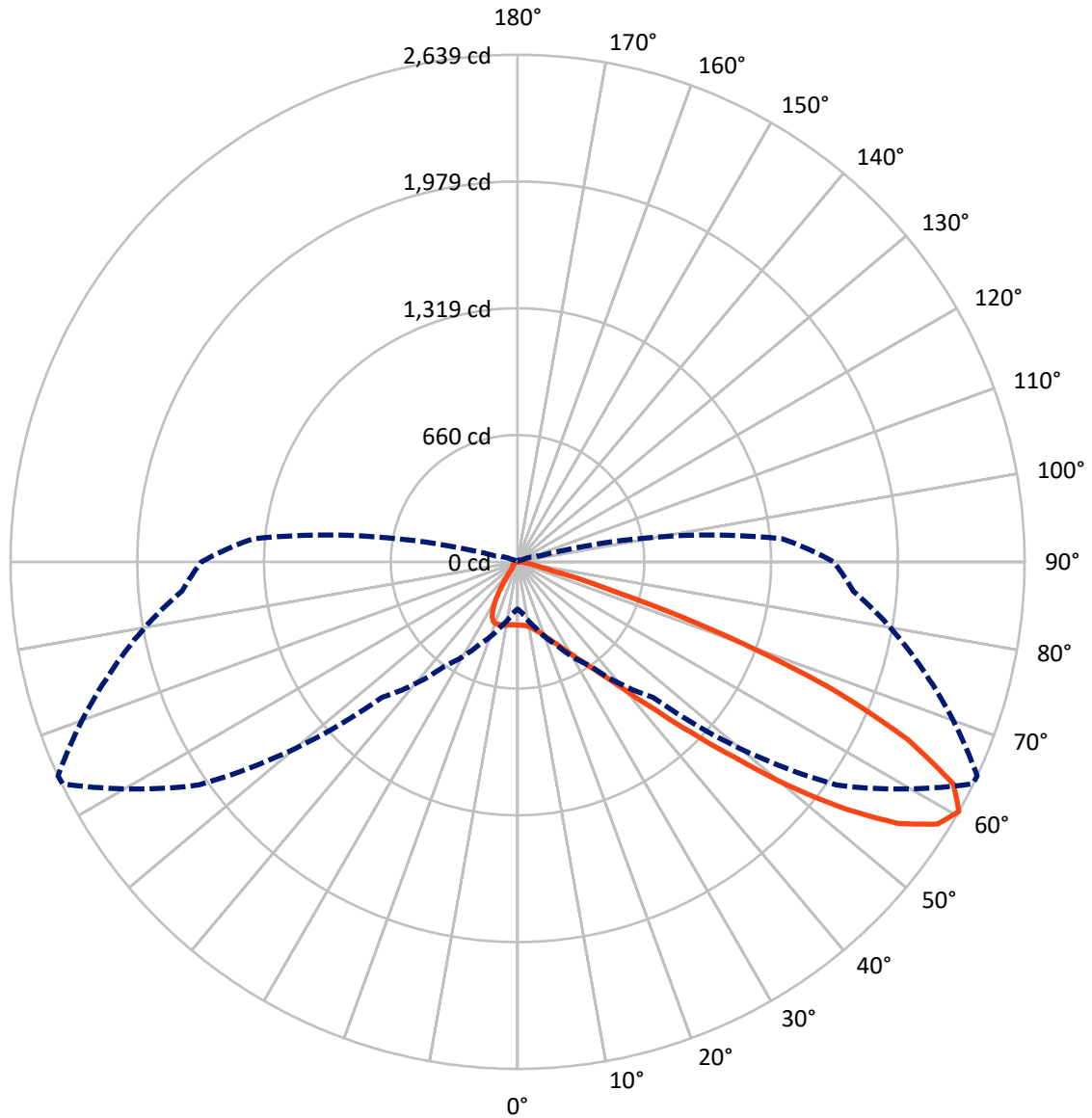
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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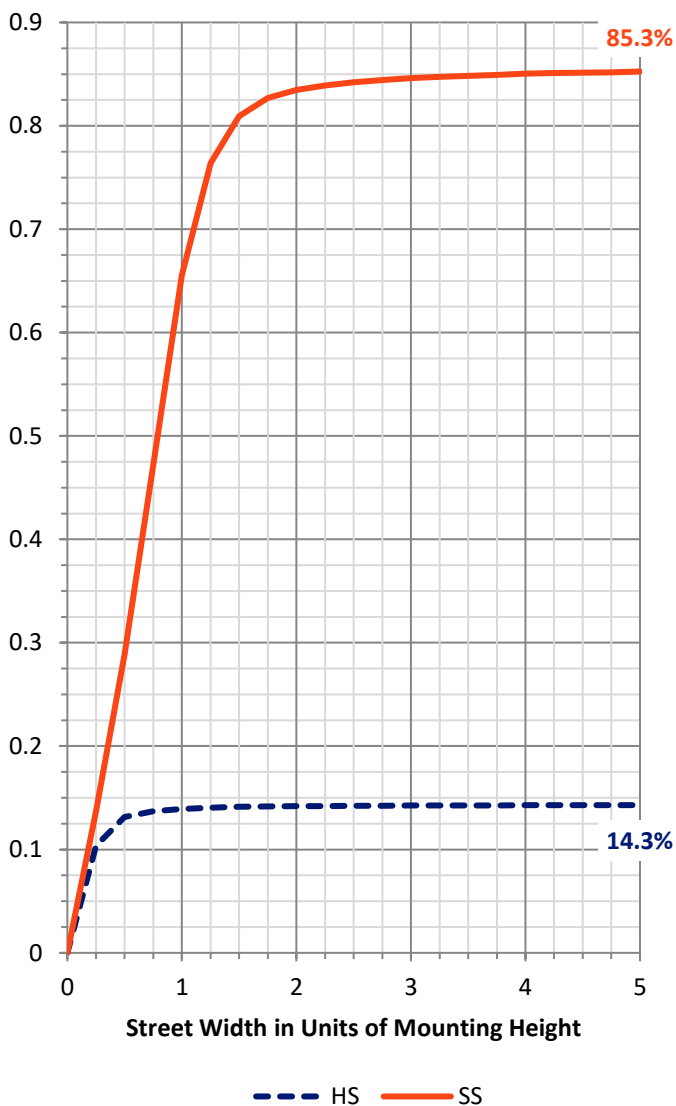
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.6	0.0	383.6
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	2266.3	0.0	2266.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	2650.0	0.0	2650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.2
10°-20°	88.5	3.3
20°-30°	150.4	5.7
30°-40°	310.3	11.7
40°-50°	624.0	23.5
50°-60°	763.6	28.8
60°-70°	540.2	20.4
70°-80°	130.2	4.9
80°-90°	11.8	0.4
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°	2650.0	100.0
0°-180°	2650.0	100.0

Coefficient of Utilization

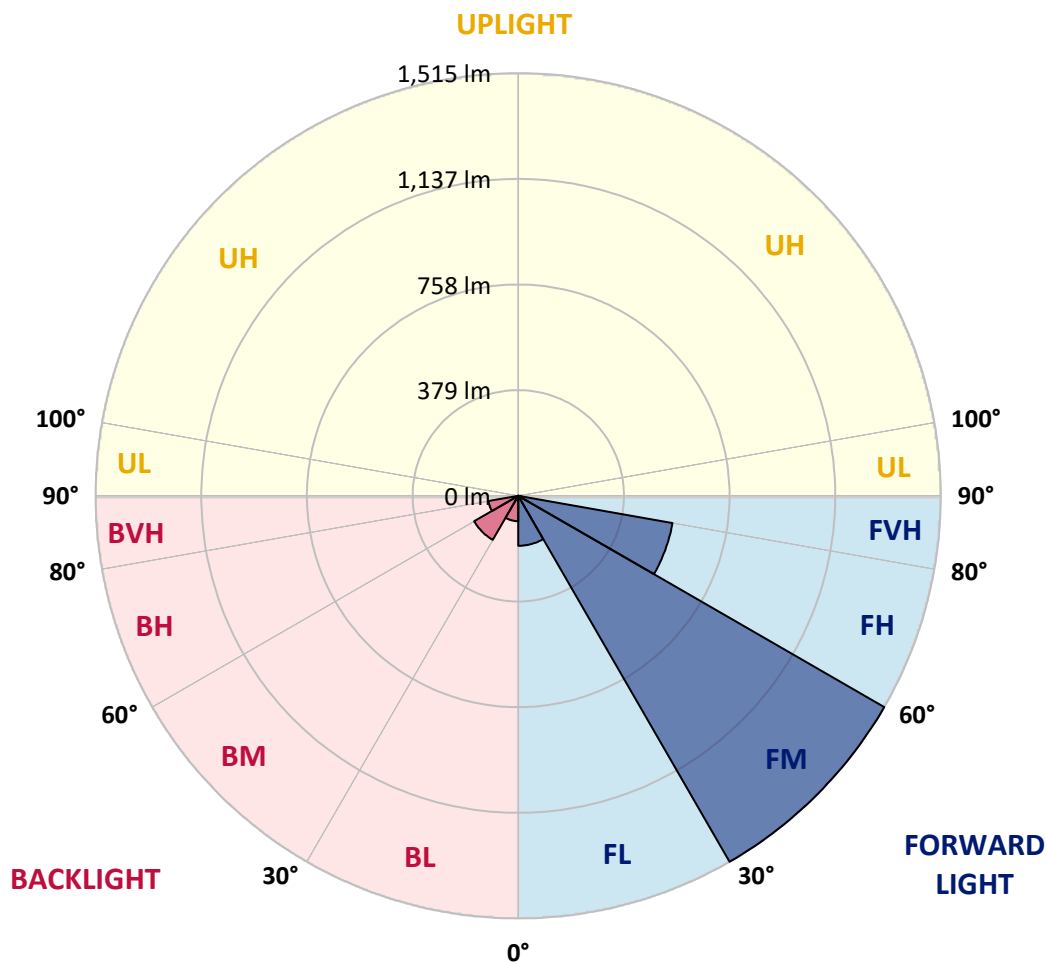


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	6.8			
FM (30°-60°)	1515.4	57.2			
FH (60°-80°)	561.6	21.2			G0/660
FVH (80°-90°)	10.2	0.4			G1/100
BL (0°-30°)	91.0	3.4	B0/110		
BM (30°-60°)	182.4	6.9	B0/220		
BH (60°-80°)	108.7	4.1	B0/110		G0/110
BVH (80°-90°)	1.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1
2.5°	331.2	330.1	330.1	330.1	331.2	331.2	332.2	330.1	330.1	330.1	330.1
5°	329.1	328.0	328.0	329.1	330.1	330.1	332.2	332.2	332.2	333.3	333.3
7.5°	333.3	331.2	331.2	332.2	333.3	333.3	335.3	336.4	336.4	338.5	339.5
10°	338.5	337.4	337.4	339.5	341.6	341.6	344.7	344.7	344.7	346.8	347.9
12.5°	345.8	344.7	344.7	347.9	351.0	353.1	355.2	356.2	357.3	357.3	357.3
15°	356.2	355.2	355.2	358.3	362.5	367.7	370.9	370.9	373.0	371.9	367.7
17.5°	370.9	369.8	370.9	373.0	378.2	383.4	389.7	390.7	389.7	387.6	381.3
20°	394.9	391.8	393.9	399.1	399.1	402.2	410.6	413.7	414.7	408.5	397.0
22.5°	420.0	420.0	422.1	428.3	424.1	428.3	435.6	440.9	443.0	437.7	418.9
25°	467.0	469.1	465.9	463.8	453.4	455.5	464.9	475.3	475.3	471.2	444.0
27.5°	570.4	568.3	546.4	516.1	488.9	491.0	500.4	514.0	515.0	505.6	469.1
30°	718.8	720.8	678.0	609.1	549.5	533.8	544.3	560.0	562.0	546.4	501.5
32.5°	950.7	932.9	853.5	761.6	649.8	593.4	597.6	614.3	620.5	607.0	552.6
35°	1250.5	1208.7	1089.6	975.7	813.8	699.9	667.6	685.3	688.5	681.1	616.4
37.5°	1429.1	1395.7	1318.4	1215.0	1024.8	842.0	759.5	777.3	774.1	759.5	680.1
40°	1539.9	1521.1	1479.3	1431.2	1310.0	1065.6	911.0	896.3	897.4	876.5	783.5
42.5°	1602.6	1585.8	1570.2	1582.7	1547.2	1470.9	1130.4	1063.5	1057.2	1017.5	903.7
45°	1605.7	1580.6	1599.4	1672.6	1729.0	1830.3	1416.6	1262.0	1265.1	1199.3	1053.1
47.5°	1485.6	1465.7	1520.0	1663.2	1850.2	2065.4	1749.9	1533.6	1519.0	1389.4	1204.5
50°	1248.4	1247.4	1319.5	1522.1	1850.2	2186.5	2107.2	1852.2	1836.6	1587.9	1342.4
52.5°	988.3	1008.1	1057.2	1249.5	1679.9	2175.1	2370.4	2181.3	2137.4	1764.5	1457.4
55°	768.9	761.6	821.1	953.8	1332.0	1976.6	2456.1	2440.4	2403.8	1921.2	1558.7
57.5°	472.2	499.4	579.8	697.9	969.5	1554.5	2332.8	2598.2	2576.2	2067.5	1664.2
60°	245.5	266.4	353.1	476.4	662.3	996.6	2024.6	2634.7	2638.9	2185.5	1754.0
62.5°	154.6	153.6	193.3	334.3	426.2	560.0	1572.3	2505.2	2544.9	2276.4	1839.7
65°	116.0	117.0	132.7	221.5	289.4	292.5	932.9	2166.7	2232.5	2300.4	1869.0
67.5°	107.6	108.6	116.0	145.2	217.3	195.4	410.6	1670.5	1762.4	2078.9	1756.1
70°	96.1	97.2	108.6	120.1	164.0	143.1	184.9	1006.0	1133.5	1508.5	1405.1
72.5°	75.2	77.3	90.9	113.9	122.2	108.6	128.5	445.0	519.2	829.5	804.4
75°	55.4	56.4	68.9	87.8	107.6	77.3	99.2	176.6	193.3	311.3	265.4
77.5°	38.7	38.7	48.1	65.8	89.8	54.3	71.0	95.1	97.2	116.0	76.3
80°	24.0	25.1	30.3	44.9	55.4	52.2	43.9	63.7	63.7	60.6	31.3
82.5°	13.6	14.6	20.9	30.3	37.6	35.5	28.2	36.6	37.6	38.7	17.8
85°	6.3	7.3	12.5	18.8	21.9	16.7	16.7	18.8	18.8	25.1	10.4
87.5°	1.0	1.0	6.3	8.4	7.3	8.4	8.4	10.4	10.4	12.5	5.2
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°	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1	330.1
2.5°	329.1	329.1	329.1	328.0	328.0	327.0	324.9	324.9	324.9	324.9	325.9
5°	333.3	332.2	331.2	328.0	325.9	321.8	317.6	316.5	313.4	313.4	314.5
7.5°	338.5	338.5	335.3	330.1	324.9	317.6	310.3	305.1	299.8	298.8	297.7
10°	347.9	345.8	342.7	333.3	324.9	313.4	301.9	288.3	277.9	272.7	270.6
12.5°	355.2	354.2	347.9	337.4	323.9	306.1	280.0	248.6	223.6	210.0	210.0
15°	365.6	363.6	354.2	339.5	320.7	278.9	225.7	177.6	150.4	135.8	133.7
17.5°	376.1	371.9	360.4	340.6	307.1	229.8	157.7	113.9	95.1	87.8	85.7
20°	388.6	381.3	364.6	341.6	273.7	167.2	102.4	76.3	68.9	65.8	66.9
22.5°	405.3	392.8	368.8	335.3	223.6	108.6	72.1	61.6	57.5	54.3	54.3
25°	426.2	408.5	376.1	317.6	161.9	73.1	57.5	51.2	47.0	44.9	43.9
27.5°	445.0	423.1	383.4	286.2	103.4	57.5	48.1	42.8	38.7	37.6	36.6
30°	470.1	439.8	390.7	236.1	67.9	47.0	40.7	35.5	32.4	31.3	31.3
32.5°	512.9	472.2	404.3	179.7	51.2	40.7	34.5	30.3	28.2	27.2	27.2
35°	563.1	511.9	415.8	125.4	43.9	34.5	29.3	26.1	25.1	24.0	24.0
37.5°	615.3	558.9	417.9	79.4	38.7	30.3	26.1	24.0	21.9	21.9	21.9
40°	709.3	641.4	408.5	53.3	33.4	27.2	23.0	21.9	19.8	19.8	19.8
42.5°	819.0	741.7	384.4	42.8	30.3	24.0	21.9	19.8	17.8	17.8	16.7
45°	961.1	855.6	343.7	37.6	27.2	21.9	19.8	17.8	16.7	15.7	15.7
47.5°	1094.8	985.1	305.1	33.4	25.1	20.9	17.8	15.7	14.6	14.6	14.6
50°	1222.3	1084.4	260.1	31.3	23.0	19.8	16.7	14.6	13.6	12.5	12.5
52.5°	1314.2	1162.7	218.3	28.2	20.9	17.8	15.7	13.6	11.5	10.4	10.4
55°	1416.6	1242.1	180.7	25.1	19.8	16.7	13.6	11.5	9.4	8.4	8.4
57.5°	1531.5	1319.5	146.3	23.0	18.8	14.6	11.5	9.4	7.3	6.3	6.3
60°	1645.4	1381.1	117.0	20.9	16.7	13.6	10.4	7.3	5.2	4.2	4.2
62.5°	1759.3	1422.9	89.8	18.8	15.7	11.5	8.4	5.2	3.1	2.1	2.1
65°	1806.3	1411.4	66.9	16.7	13.6	9.4	7.3	5.2	3.1	2.1	2.1
67.5°	1675.7	1269.3	47.0	16.7	12.5	9.4	6.3	4.2	2.1	1.0	1.0
70°	1308.0	979.9	34.5	16.7	12.5	9.4	6.3	4.2	2.1	1.0	1.0
72.5°	741.7	545.3	26.1	14.6	11.5	8.4	6.3	4.2	2.1	1.0	1.0
75°	264.3	175.5	19.8	13.6	10.4	7.3	6.3	4.2	2.1	1.0	1.0
77.5°	63.7	44.9	15.7	11.5	9.4	7.3	5.2	4.2	3.1	1.0	1.0
80°	26.1	18.8	12.5	9.4	7.3	6.3	5.2	4.2	2.1	1.0	1.0
82.5°	11.5	9.4	5.2	5.2	4.2	4.2	4.2	4.2	2.1	1.0	1.0
85°	5.2	4.2	2.1	2.1	1.0	1.0	1.0	2.1	2.1	1.0	1.0
87.5°	3.1	2.1	2.1	2.1	1.0	1.0	1.0	0.0	0.0	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)