

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: P573319

Luminaire Tested: **ARCH-S-PA2-60-740-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7278 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

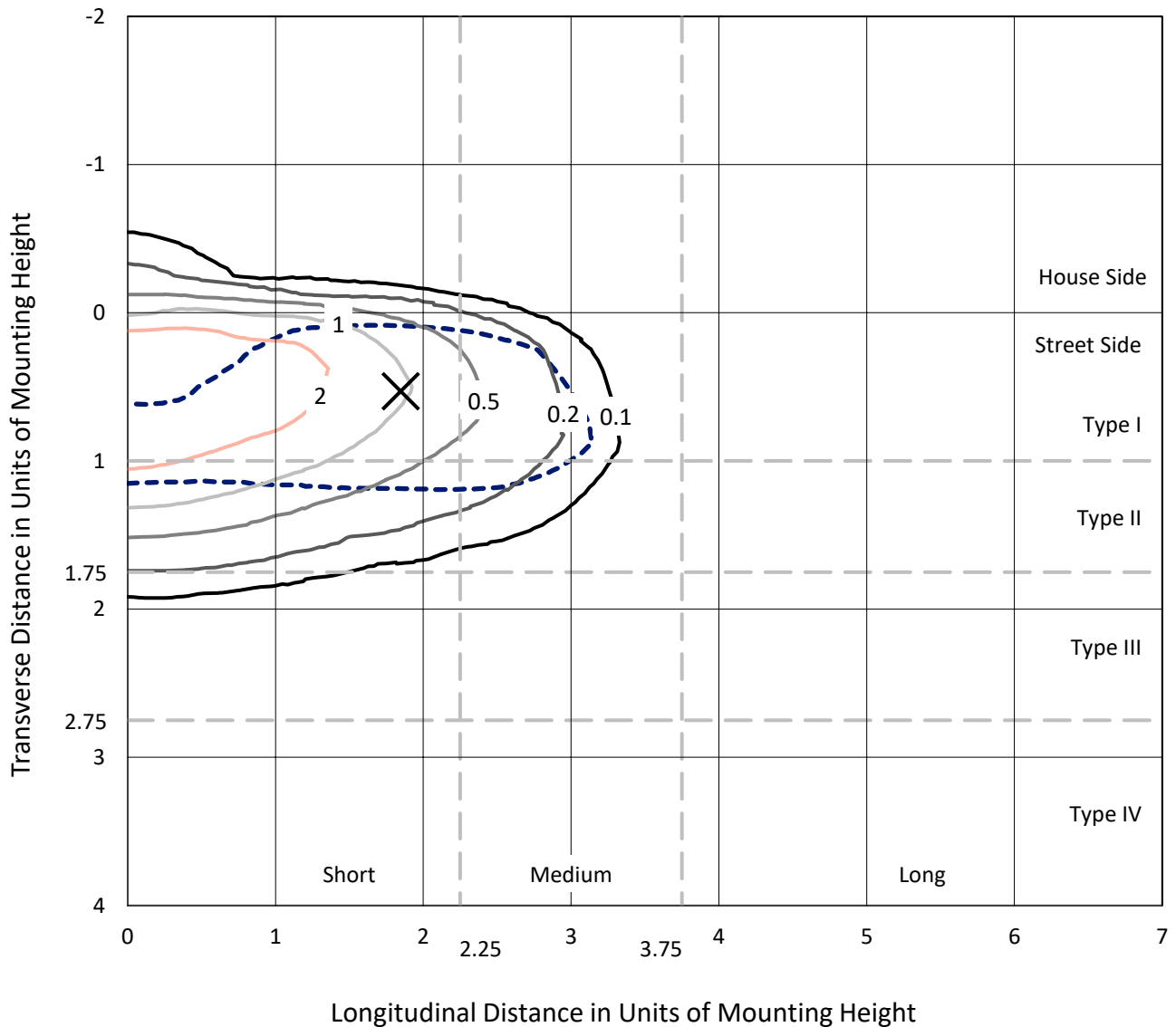
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573319
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

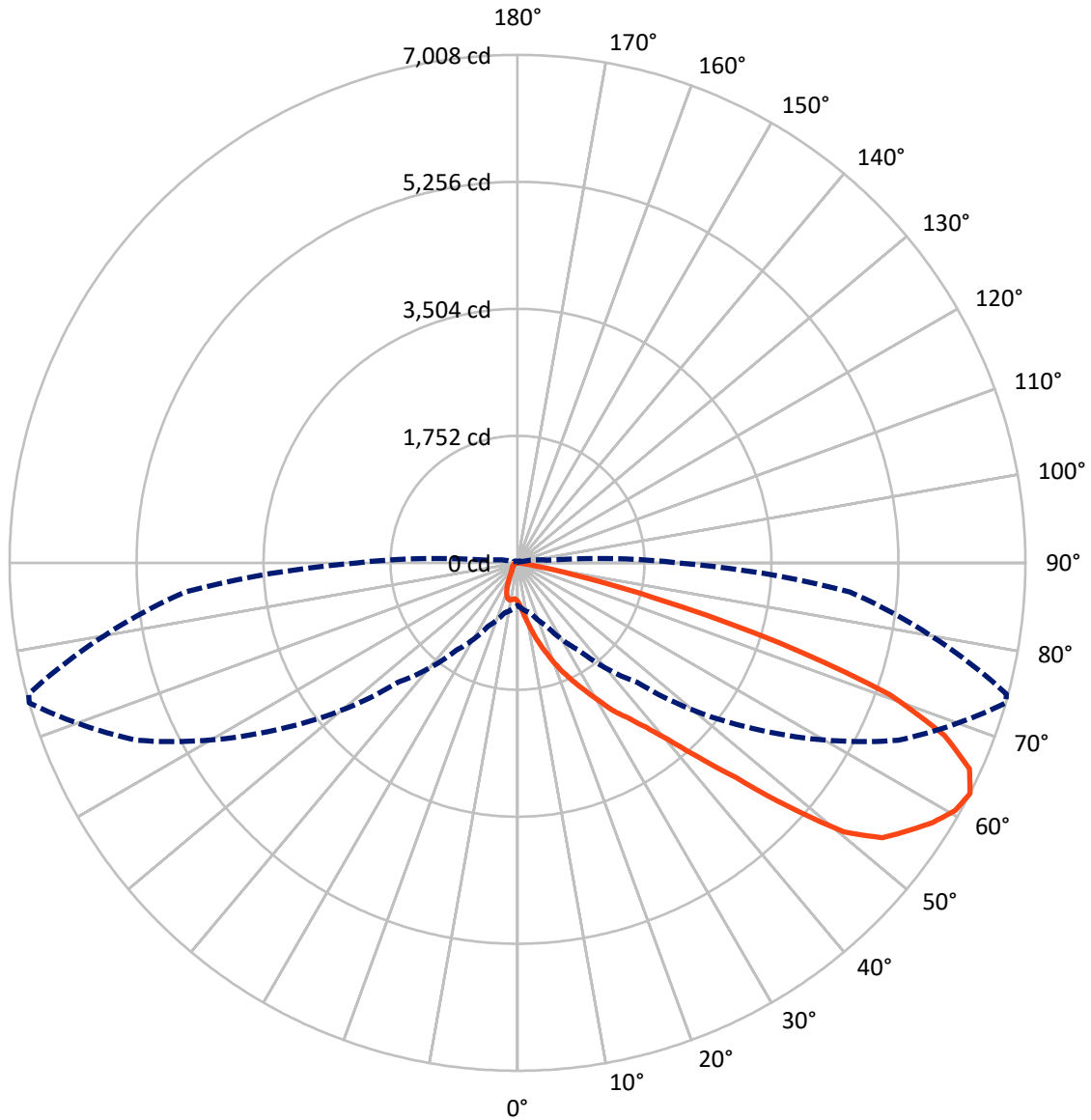
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P573319
CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P573319
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

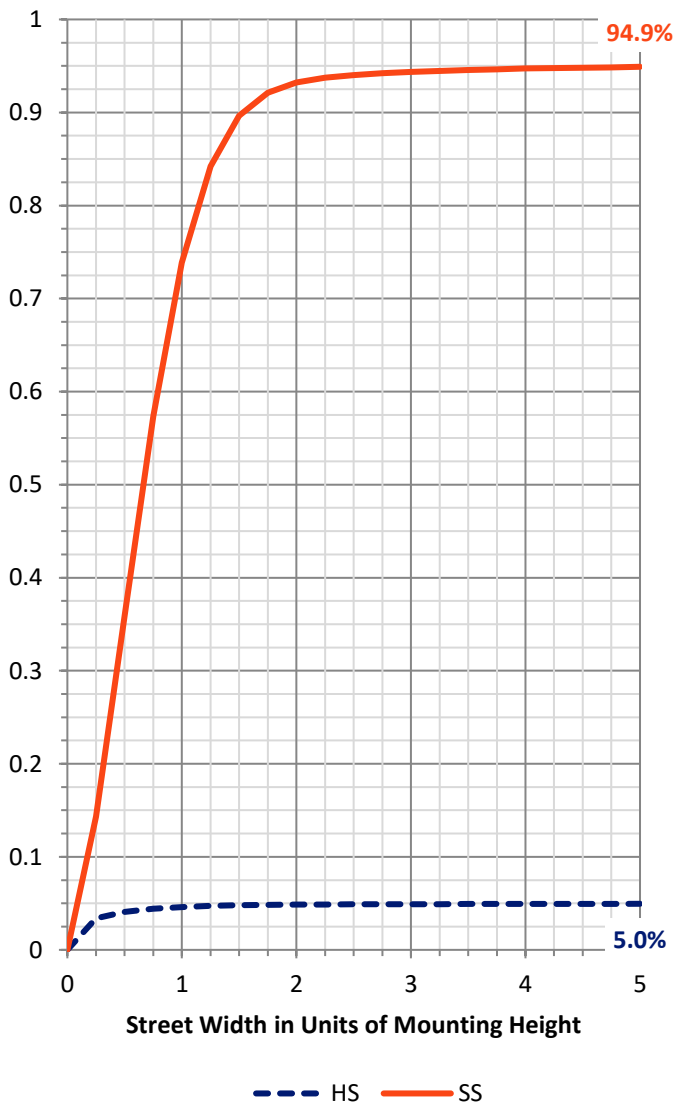
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.0	0.0	363.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	6915.0	0.0	6915.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	7278.0	0.0	7278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	0.9
10°-20°	279.9	3.8
20°-30°	600.6	8.3
30°-40°	1053.4	14.5
40°-50°	1633.0	22.4
50°-60°	1882.6	25.9
60°-70°	1322.6	18.2
70°-80°	412.1	5.7
80°-90°	27.2	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°	7278.0	100.0
0°-180°	7278.0	100.0



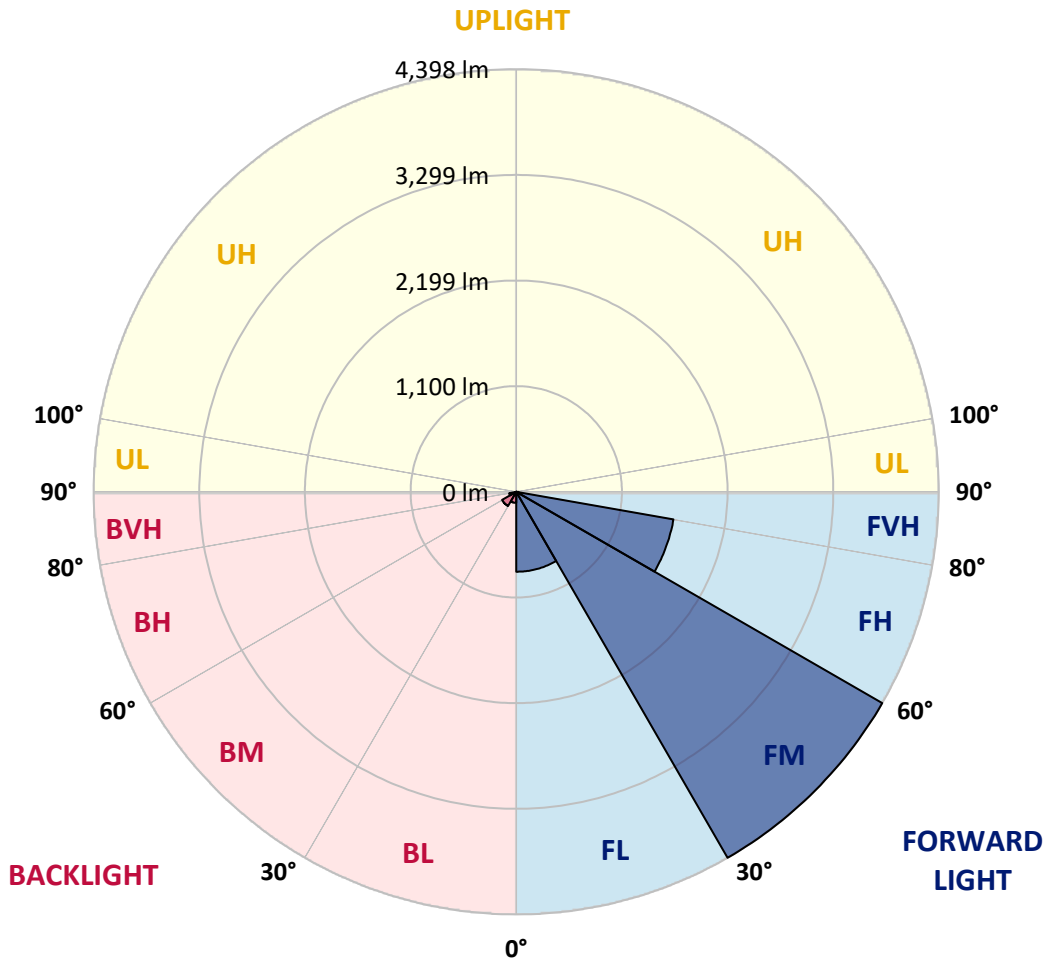
REPORT NUMBER: P573319
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.9	11.4			
FM (30°-60°)	4398.4	60.4			
FH (60°-80°)	1661.2	22.8			G1/1800
FVH (80°-90°)	23.5	0.3			G1/100
BL (0°-30°)	115.2	1.6	B1/500		
BM (30°-60°)	170.6	2.3	B0/220		
BH (60°-80°)	73.5	1.0	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
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





REPORT NUMBER: P573319

CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	740.2	727.4	712.1	699.3	673.6	655.7	632.7	607.1	578.9	576.3	553.3
5°	1037.4	998.9	998.9	965.6	927.2	858.1	794.0	714.6	655.7	650.6	589.1
7.5°	1342.2	1311.4	1293.5	1242.3	1180.8	1104.0	1001.5	868.3	760.7	742.8	642.9
10°	1626.5	1603.4	1570.1	1529.2	1475.4	1349.9	1221.8	1047.6	876.0	863.2	706.9
12.5°	1846.8	1818.6	1803.2	1785.3	1716.1	1616.2	1449.8	1229.5	1024.6	996.4	771.0
15°	2013.3	2000.5	1985.1	1985.1	1949.2	1851.9	1680.3	1424.1	1168.0	1134.7	852.9
17.5°	2146.5	2131.1	2128.5	2143.9	2133.6	2064.5	1903.1	1611.1	1316.6	1290.9	937.5
20°	2295.0	2274.5	2274.5	2287.3	2284.8	2246.4	2105.5	1826.3	1490.7	1444.6	1034.8
22.5°	2505.1	2492.2	2482.0	2461.5	2446.1	2410.3	2287.3	2036.3	1657.2	1613.7	1134.7
25°	2786.8	2771.4	2725.3	2689.5	2622.9	2569.1	2464.1	2223.3	1826.3	1777.6	1232.0
27.5°	3060.9	3030.1	2986.6	2940.5	2866.2	2774.0	2643.4	2400.0	2003.0	1951.8	1331.9
30°	3350.3	3327.3	3273.5	3199.2	3107.0	3004.5	2848.3	2612.6	2205.4	2149.0	1439.5
32.5°	3580.8	3545.0	3496.3	3424.6	3329.8	3258.1	3089.1	2845.7	2438.5	2364.2	1552.2
35°	3765.3	3737.1	3673.1	3603.9	3532.2	3511.7	3327.3	3035.3	2625.4	2556.3	1672.6
37.5°	3883.1	3854.9	3801.1	3732.0	3703.8	3739.6	3619.3	3294.0	2876.5	2789.4	1810.9
40°	3975.3	3942.0	3898.5	3867.7	3857.5	3957.4	3944.6	3629.5	3206.9	3155.6	2000.5
42.5°	4041.9	4008.6	3980.4	3977.9	4044.5	4239.1	4382.6	4098.2	3667.9	3562.9	2243.8
45°	3957.4	3929.2	3944.6	4034.2	4195.6	4502.9	4912.8	4761.6	4223.8	4149.5	2633.1
47.5°	3721.7	3703.8	3772.9	3936.9	4236.6	4664.3	5425.1	5489.1	5017.8	4905.1	3137.7
50°	3352.9	3350.3	3460.5	3683.3	4108.5	4725.8	5683.8	6188.4	5832.3	5717.1	3547.5
52.5°	2853.4	2843.2	3004.5	3314.5	3806.2	4610.5	5732.4	6467.5	6303.6	6167.9	3806.2
55°	2287.3	2264.3	2456.4	2797.1	3360.6	4275.0	5601.8	6529.0	6529.0	6406.1	3998.4
57.5°	1608.6	1644.4	1803.2	2213.1	2809.9	3772.9	5279.1	6472.7	6757.0	6652.0	4257.1
60°	1014.3	1029.7	1203.9	1534.3	2131.1	3101.9	4702.7	6229.3	6938.8	6877.4	4464.5
62.5°	584.0	632.7	719.8	970.8	1470.2	2330.9	3990.7	5791.3	7008.0	6982.4	4600.3
65°	356.0	361.2	402.1	548.1	904.2	1590.6	3194.1	5181.7	6851.8	6874.8	4574.7
67.5°	266.4	266.4	279.2	345.8	514.8	1011.8	2356.5	4441.5	6352.3	6426.6	4333.9
70°	230.5	230.5	233.1	253.6	317.6	599.4	1557.3	3580.8	5445.5	5437.9	3580.8
72.5°	181.9	189.5	204.9	215.2	240.8	350.9	911.9	2502.5	3783.2	3872.8	2305.3
75°	146.0	148.6	169.1	187.0	202.4	238.2	430.3	1390.8	1985.1	1985.1	1014.3
77.5°	112.7	117.8	130.6	148.6	169.1	169.1	179.3	537.9	768.4	742.8	299.7
80°	71.7	74.3	94.8	117.8	140.9	120.4	97.3	179.3	210.0	202.4	82.0
82.5°	43.5	46.1	61.5	94.8	94.8	66.6	61.5	74.3	66.6	61.5	33.3
85°	12.8	15.4	43.5	61.5	53.8	25.6	30.7	33.3	30.7	28.2	17.9
87.5°	2.6	2.6	12.8	15.4	12.8	12.8	10.2	12.8	12.8	12.8	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573319

CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	540.5	530.2	509.7	494.4	481.5	468.7	458.5	455.9	450.8	450.8	448.2
5°	563.5	540.5	502.0	476.4	455.9	438.0	422.6	407.3	402.1	397.0	399.6
7.5°	599.4	563.5	509.7	471.3	435.4	394.5	361.2	333.0	312.5	307.4	299.7
10°	645.5	591.7	522.5	461.1	394.5	322.7	276.6	248.5	238.2	225.4	228.0
12.5°	691.6	625.0	532.8	432.9	325.3	253.6	215.2	197.2	189.5	187.0	189.5
15°	745.4	660.8	527.6	381.6	261.3	204.9	181.9	174.2	169.1	169.1	166.5
17.5°	799.2	691.6	509.7	315.1	210.0	174.2	163.9	156.2	151.1	148.6	148.6
20°	858.1	719.8	468.7	251.0	174.2	158.8	148.6	138.3	133.2	133.2	133.2
22.5°	919.5	740.2	414.9	199.8	156.2	140.9	130.6	122.9	117.8	117.8	117.8
25°	973.3	750.5	350.9	166.5	143.4	128.1	117.8	110.1	107.6	105.0	105.0
27.5°	1024.6	747.9	284.3	146.0	128.1	115.3	105.0	99.9	94.8	94.8	94.8
30°	1075.8	732.6	225.4	133.2	117.8	102.5	94.8	89.6	87.1	84.5	84.5
32.5°	1119.3	706.9	176.7	122.9	107.6	92.2	84.5	79.4	79.4	76.8	76.8
35°	1162.9	668.5	148.6	115.3	97.3	84.5	76.8	74.3	71.7	71.7	71.7
37.5°	1209.0	619.9	130.6	105.0	87.1	76.8	71.7	69.2	66.6	64.0	64.0
40°	1265.3	571.2	122.9	97.3	79.4	69.2	64.0	61.5	58.9	58.9	58.9
42.5°	1355.0	530.2	115.3	87.1	71.7	64.0	58.9	53.8	53.8	51.2	51.2
45°	1524.0	514.8	107.6	79.4	66.6	56.4	53.8	48.7	46.1	46.1	46.1
47.5°	1744.3	517.4	99.9	71.7	61.5	51.2	48.7	46.1	41.0	41.0	41.0
50°	1926.2	504.6	92.2	66.6	53.8	48.7	43.5	41.0	38.4	38.4	38.4
52.5°	1997.9	481.5	84.5	61.5	51.2	43.5	41.0	38.4	35.9	35.9	35.9
55°	2069.6	471.3	76.8	53.8	46.1	43.5	38.4	35.9	33.3	30.7	30.7
57.5°	2200.2	476.4	69.2	51.2	43.5	41.0	35.9	30.7	25.6	23.1	23.1
60°	2269.4	458.5	64.0	46.1	41.0	38.4	30.7	23.1	17.9	15.4	15.4
62.5°	2210.5	407.3	58.9	43.5	38.4	33.3	23.1	17.9	12.8	7.7	7.7
65°	2046.6	335.5	53.8	41.0	33.3	25.6	20.5	12.8	7.7	5.1	5.1
67.5°	1839.1	263.8	48.7	38.4	30.7	23.1	17.9	10.2	5.1	2.6	2.6
70°	1485.6	189.5	46.1	35.9	28.2	20.5	15.4	10.2	5.1	2.6	2.6
72.5°	958.0	122.9	41.0	33.3	25.6	20.5	12.8	7.7	5.1	2.6	2.6
75°	443.1	82.0	38.4	30.7	25.6	17.9	12.8	10.2	5.1	2.6	2.6
77.5°	130.6	58.9	35.9	28.2	23.1	17.9	12.8	10.2	5.1	2.6	2.6
80°	53.8	41.0	28.2	25.6	23.1	17.9	12.8	10.2	5.1	2.6	2.6
82.5°	25.6	17.9	12.8	10.2	12.8	12.8	10.2	10.2	5.1	2.6	2.6
85°	12.8	7.7	5.1	5.1	5.1	2.6	2.6	5.1	5.1	2.6	2.6
87.5°	7.7	5.1	5.1	5.1	2.6	2.6	2.6	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)