

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: P573599

Luminaire Tested: **ARCH-S-PA2-90-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573599
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-PA2-90-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10238 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

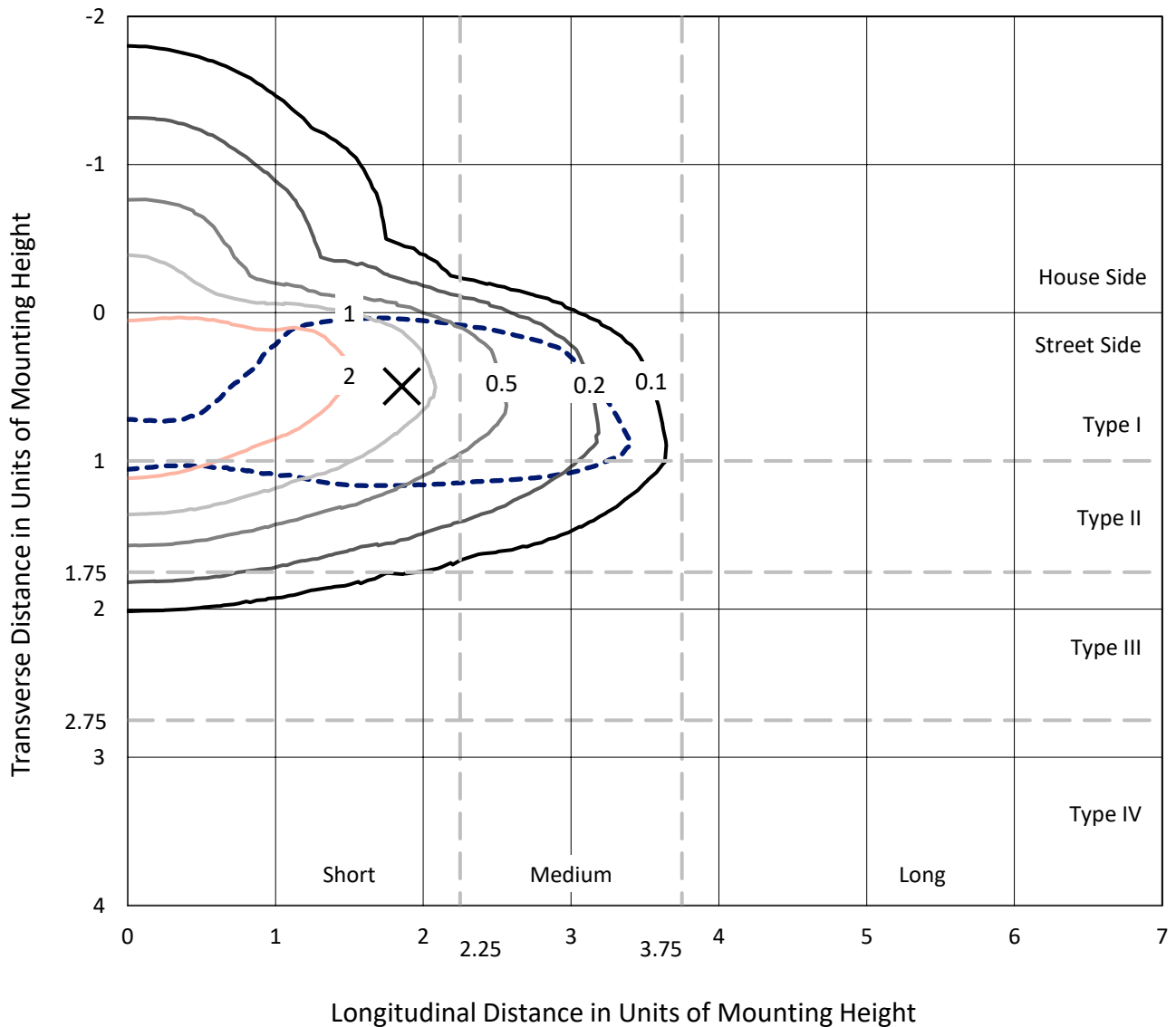
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

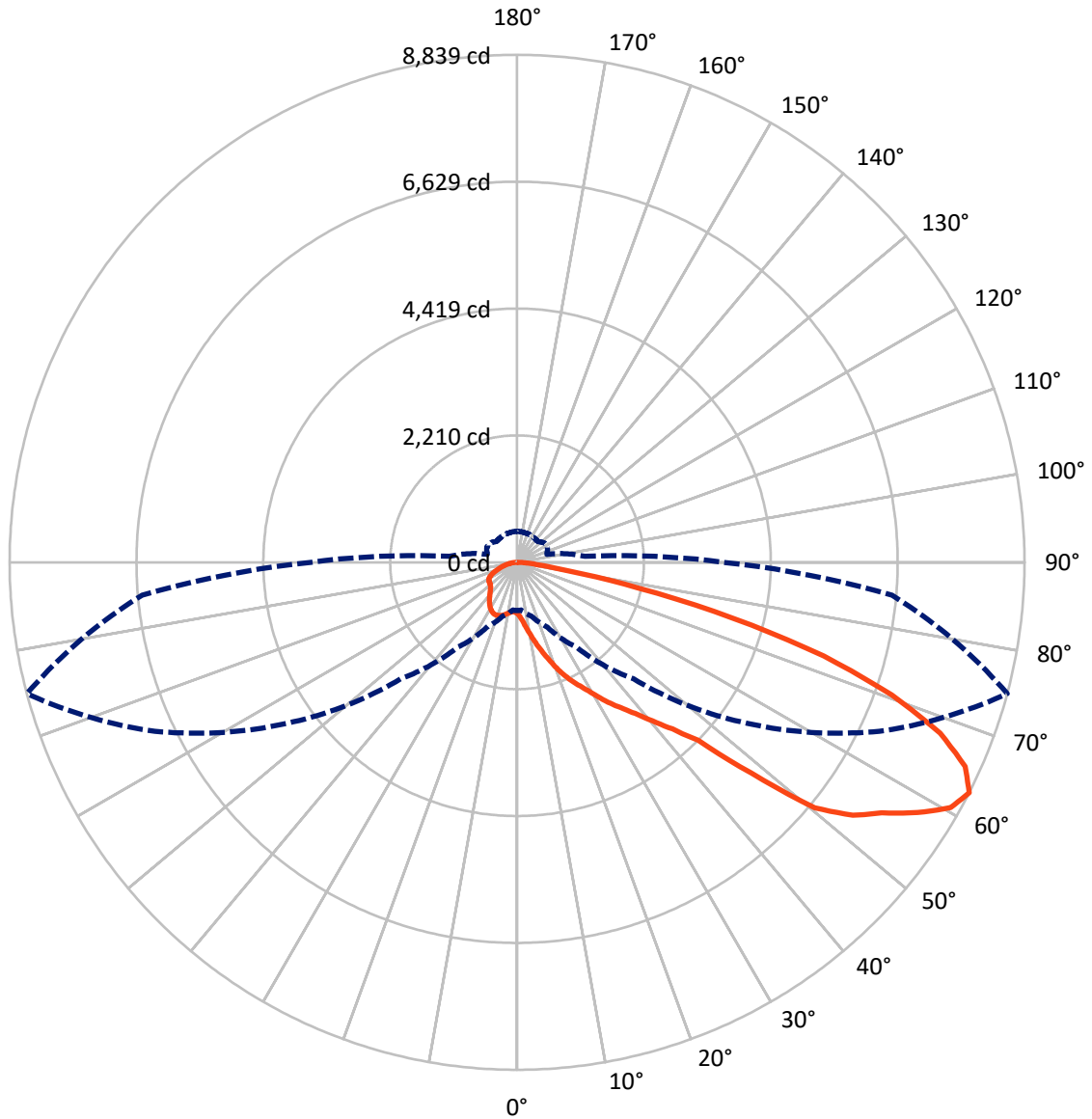
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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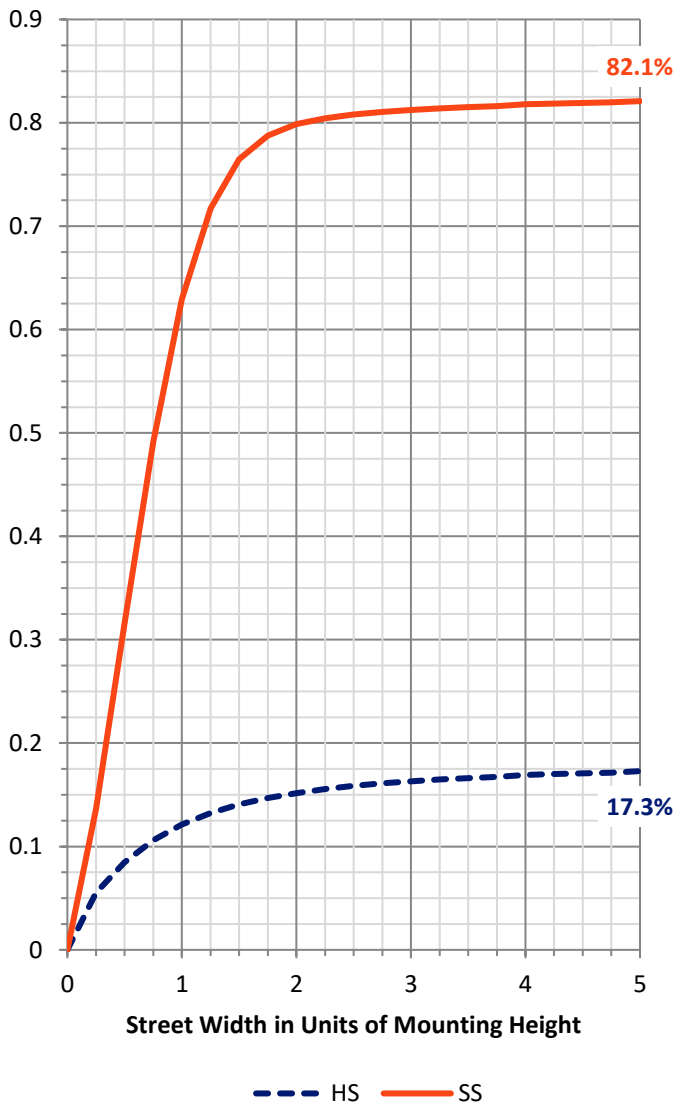
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.7	0.0	1805.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	8432.3	0.0	8432.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	10238.0	0.0	10238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.0
10°-20°	423.6	4.1
20°-30°	838.1	8.2
30°-40°	1397.1	13.6
40°-50°	2061.5	20.1
50°-60°	2478.1	24.2
60°-70°	1926.0	18.8
70°-80°	852.0	8.3
80°-90°	154.2	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°	10238.0	100.0
0°-180°	10238.0	100.0

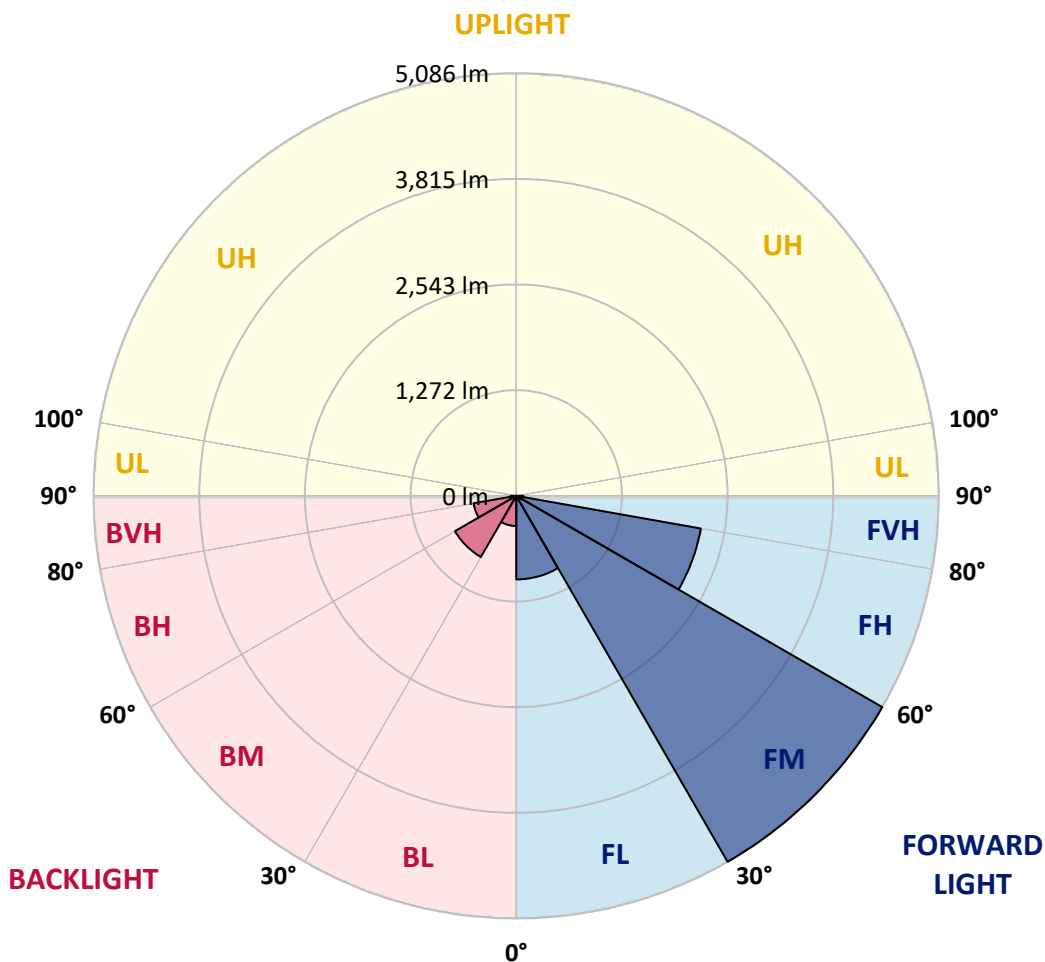


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.6	9.8			
FM (30°-60°)	5086.2	49.7			
FH (60°-80°)	2255.6	22.0			G2/5000
FVH (80°-90°)	84.8	0.8			G1/100
BL (0°-30°)	363.3	3.5	B1/500		
BM (30°-60°)	850.5	8.3	B1/1000		
BH (60°-80°)	522.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	69.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	1141.1	1107.9	1107.9	1072.0	1074.8	1044.4	1011.2	978.1	942.1	914.5	900.7
5°	1492.0	1467.1	1458.8	1417.4	1351.1	1276.5	1196.3	1113.4	1027.8	961.5	928.3
7.5°	1820.7	1801.4	1790.4	1743.4	1652.2	1572.1	1445.0	1293.0	1146.6	1022.3	972.5
10°	2063.9	2050.1	2028.0	2005.9	1939.5	1870.5	1713.0	1497.5	1282.0	1096.9	1022.3
12.5°	2240.7	2221.4	2221.4	2218.6	2174.4	2110.8	1964.4	1732.3	1439.5	1179.8	1077.5
15°	2359.5	2356.7	2365.0	2381.6	2370.6	2329.1	2182.7	1947.8	1599.7	1273.7	1141.1
17.5°	2447.9	2436.9	2453.4	2497.7	2530.8	2514.2	2392.7	2155.1	1776.5	1375.9	1210.1
20°	2544.6	2522.5	2544.6	2599.9	2641.3	2666.2	2608.2	2354.0	1967.2	1486.4	1276.5
22.5°	2729.7	2727.0	2715.9	2732.5	2760.1	2804.3	2771.2	2555.7	2152.3	1596.9	1353.8
25°	3061.3	3030.9	3000.5	2964.6	2934.2	2948.0	2920.4	2743.5	2320.8	1718.5	1420.1
27.5°	3431.5	3398.4	3343.1	3254.7	3171.8	3122.1	3064.0	2906.6	2483.8	1829.0	1483.7
30°	3771.3	3760.3	3677.4	3580.7	3437.0	3345.9	3235.3	3094.4	2680.0	1950.6	1550.0
32.5°	4089.1	4067.0	3984.1	3881.9	3713.3	3611.1	3459.1	3298.9	2903.8	2099.8	1619.1
35°	4362.6	4340.5	4243.8	4113.9	3967.5	3879.1	3705.0	3481.2	3108.2	2229.7	1677.1
37.5°	4569.8	4545.0	4453.8	4326.7	4196.8	4155.4	4006.2	3713.3	3340.3	2392.7	1748.9
40°	4685.9	4655.5	4594.7	4506.3	4398.5	4379.2	4315.6	4000.7	3633.2	2591.6	1853.9
42.5°	4699.7	4672.0	4638.9	4630.6	4622.3	4638.9	4669.3	4326.7	3967.5	2856.8	2008.6
45°	4578.1	4561.5	4564.3	4658.2	4788.1	4940.0	5122.4	4807.4	4417.9	3362.4	2356.7
47.5°	4318.4	4310.1	4370.9	4528.4	4818.5	5163.8	5680.5	5630.8	5484.3	4177.5	2804.3
50°	3898.4	3884.6	4014.5	4263.1	4677.6	5238.4	6056.3	6600.5	6722.1	4810.2	3097.2
52.5°	3296.1	3312.7	3514.4	3854.2	4354.3	5158.3	6211.0	6998.4	7318.9	5277.1	3321.0
55°	2680.0	2655.1	2837.5	3257.4	3876.3	4865.4	6241.4	7227.7	7705.7	5708.1	3539.3
57.5°	1953.4	2014.1	2207.5	2588.8	3260.2	4335.0	6064.5	7385.2	8225.1	6139.1	3741.0
60°	1323.4	1323.4	1494.7	1876.0	2519.8	3691.2	5592.1	7327.2	8678.2	6476.2	3785.2
62.5°	842.7	834.4	972.5	1243.3	1804.2	2867.9	4884.8	6962.5	8838.5	6556.3	3600.0
65°	533.2	544.3	594.0	759.8	1154.9	2036.2	3920.5	6235.8	8576.0	6371.2	3276.8
67.5°	428.2	431.0	455.9	524.9	710.1	1306.8	2906.6	5232.9	7948.8	5904.3	2898.3
70°	378.5	384.0	389.6	414.4	486.3	826.1	1909.2	4213.4	6921.0	5092.0	2492.1
72.5°	345.4	350.9	356.4	361.9	400.6	538.8	1127.3	3193.9	5583.8	3912.3	1900.9
75°	317.7	323.3	323.3	326.0	348.1	400.6	618.9	2202.0	3887.4	2434.1	1185.3
77.5°	284.6	287.3	287.3	292.9	315.0	315.0	384.0	1362.1	2157.8	1102.4	599.5
80°	240.4	245.9	245.9	254.2	276.3	243.1	256.9	696.2	895.2	453.1	268.0
82.5°	176.8	187.9	193.4	207.2	221.0	185.1	185.1	350.9	378.5	201.7	143.7
85°	96.7	99.5	143.7	154.7	163.0	110.5	124.3	174.1	187.9	88.4	71.8
87.5°	27.6	30.4	69.1	85.6	77.4	47.0	52.5	66.3	66.3	24.9	19.3
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°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	889.7	867.5	848.2	834.4	820.6	812.3	809.5	804.0	804.0	806.8
5°	900.7	862.0	831.6	815.1	804.0	798.5	795.7	795.7	798.5	798.5
7.5°	928.3	870.3	842.7	828.9	817.8	812.3	812.3	809.5	812.3	812.3
10°	967.0	895.2	864.8	848.2	839.9	831.6	828.9	826.1	826.1	826.1
12.5°	1008.5	922.8	889.7	870.3	856.5	845.4	839.9	834.4	831.6	831.6
15°	1047.1	950.4	906.2	884.1	864.8	848.2	837.2	828.9	826.1	826.1
17.5°	1088.6	969.8	917.3	886.9	862.0	839.9	826.1	815.1	809.5	809.5
20°	1132.8	983.6	917.3	878.6	845.4	823.3	806.8	795.7	784.7	784.7
22.5°	1168.7	989.1	906.2	859.3	826.1	798.5	781.9	768.1	759.8	759.8
25°	1199.1	983.6	881.4	828.9	790.2	765.3	748.7	737.7	729.4	729.4
27.5°	1218.4	961.5	851.0	795.7	759.8	734.9	723.9	712.8	707.3	707.3
30°	1229.5	933.9	812.3	759.8	723.9	710.1	704.5	693.5	685.2	682.4
32.5°	1235.0	892.4	773.6	723.9	699.0	693.5	693.5	679.7	668.6	665.9
35°	1229.5	848.2	734.9	693.5	685.2	688.0	682.4	665.9	652.0	646.5
37.5°	1221.2	795.7	693.5	671.4	679.7	685.2	668.6	646.5	624.4	618.9
40°	1215.7	748.7	660.3	649.3	674.1	676.9	646.5	605.1	588.5	583.0
42.5°	1243.3	701.8	629.9	632.7	660.3	663.1	607.8	588.5	577.4	574.7
45°	1337.2	660.3	605.1	621.6	643.8	632.7	588.5	585.7	577.4	574.7
47.5°	1409.1	629.9	594.0	613.4	629.9	591.3	585.7	583.0	574.7	571.9
50°	1433.9	610.6	591.3	607.8	610.6	571.9	580.2	580.2	571.9	569.2
52.5°	1436.7	599.5	596.8	605.1	580.2	563.6	574.7	574.7	566.4	563.6
55°	1447.8	594.0	599.5	605.1	547.1	552.6	563.6	566.4	558.1	555.3
57.5°	1425.7	585.7	605.1	607.8	533.2	541.5	552.6	552.6	552.6	552.6
60°	1340.0	569.2	602.3	602.3	522.2	527.7	538.8	544.3	547.1	547.1
62.5°	1182.5	536.0	585.7	585.7	511.1	516.7	530.5	530.5	538.8	538.8
65°	983.6	489.0	552.6	549.8	500.1	505.6	522.2	516.7	530.5	533.2
67.5°	820.6	431.0	502.8	508.4	489.0	502.8	513.9	494.6	522.2	522.2
70°	654.8	361.9	436.5	461.4	469.7	505.6	497.3	466.9	502.8	494.6
72.5°	508.4	306.7	359.2	403.4	447.6	502.8	461.4	428.2	450.4	436.5
75°	370.2	254.2	295.6	334.3	417.2	494.6	425.5	375.8	375.8	370.2
77.5°	259.7	207.2	237.6	265.2	386.8	472.5	381.3	323.3	309.4	306.7
80°	176.8	163.0	187.9	204.5	342.6	428.2	328.8	268.0	243.1	237.6
82.5°	116.0	116.0	127.1	138.1	265.2	356.4	256.9	198.9	256.9	245.9
85°	66.3	69.1	69.1	80.1	146.4	251.4	182.4	198.9	118.8	110.5
87.5°	22.1	22.1	22.1	22.1	30.4	102.2	77.4	71.8	27.6	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)