

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: P572864

Luminaire Tested: **ARCH-S-PA2-120-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8551 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

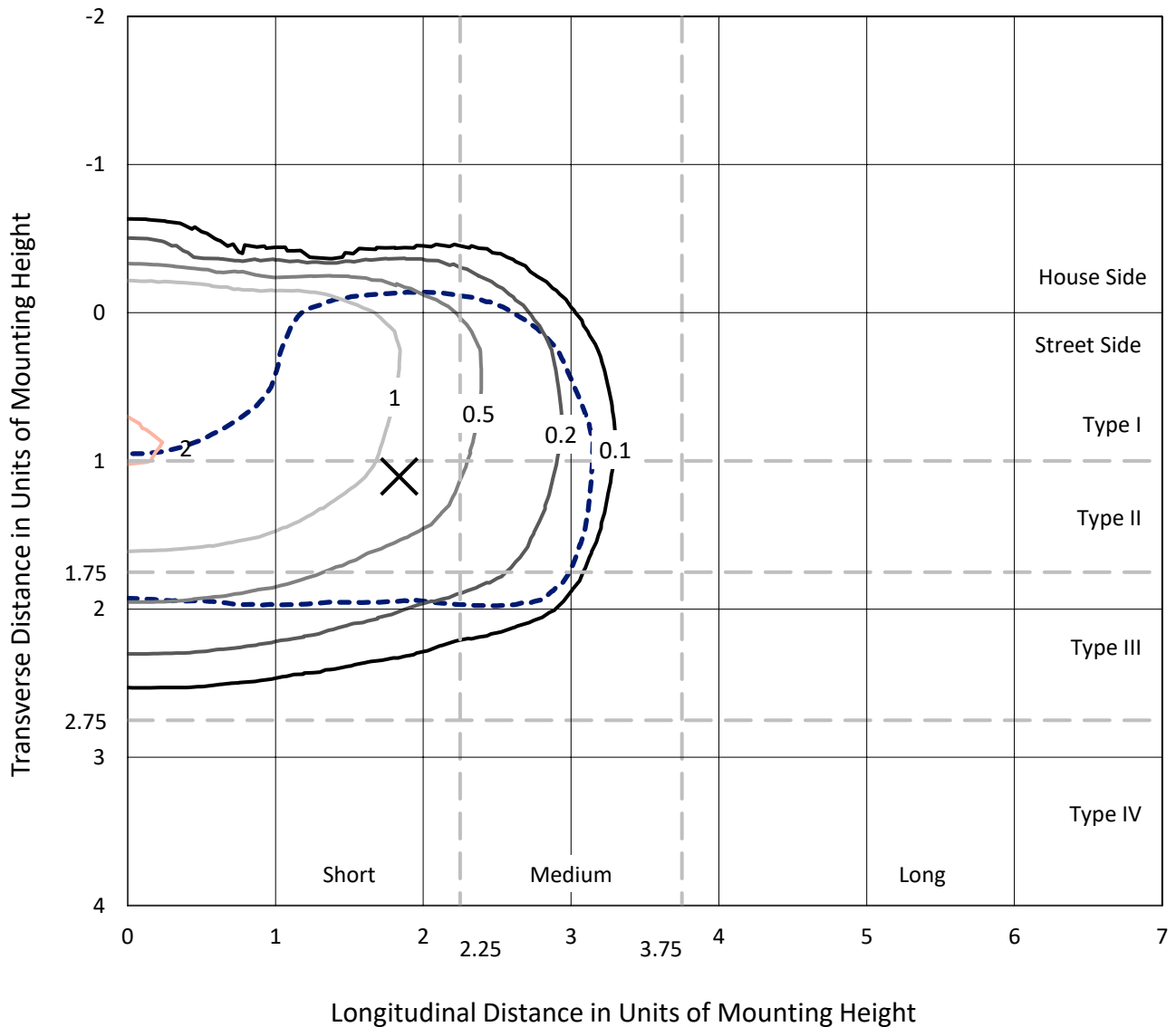
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

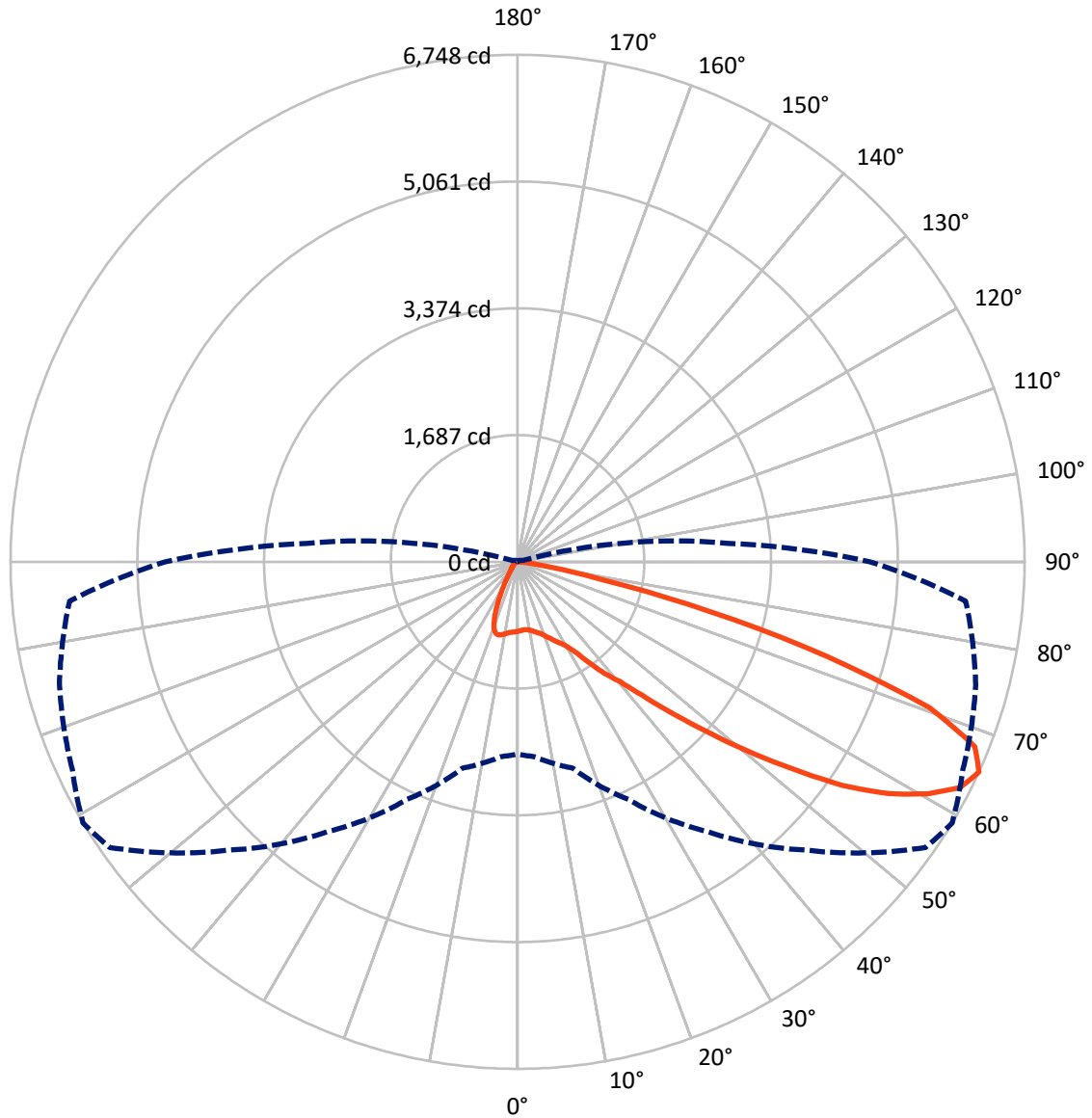
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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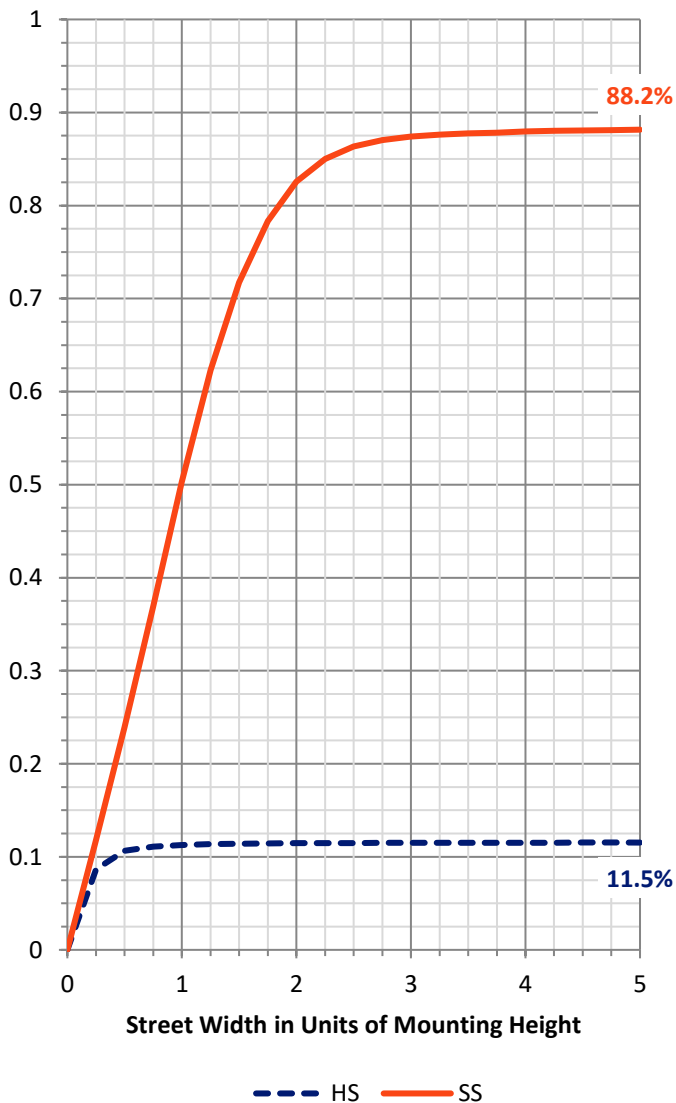
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.5	0.0	997.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7553.4	0.0	7553.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	8551.0	0.0	8551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	1.0
10°-20°	248.1	2.9
20°-30°	421.3	4.9
30°-40°	746.3	8.7
40°-50°	1407.8	16.5
50°-60°	2382.0	27.9
60°-70°	2476.5	29.0
70°-80°	742.7	8.7
80°-90°	38.9	0.5
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°	8551.0	100.0
0°-180°	8551.0	100.0



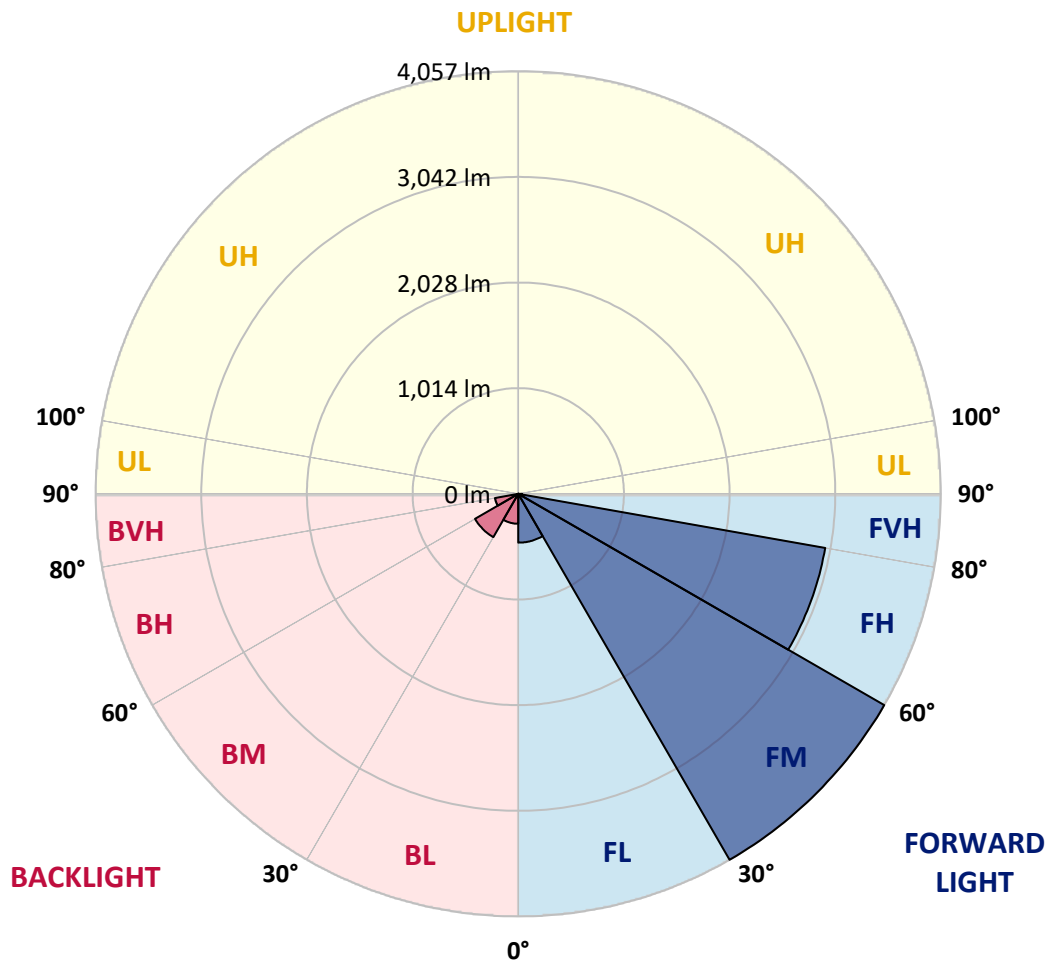
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.9	5.5			
FM	(30°-60°)	4056.6	47.4			
FH	(60°-80°)	2992.2	35.0			G2/5000
FVH	(80°-90°)	35.7	0.4			G1/100
BL	(0°-30°)	287.8	3.4	B1/500		
BM	(30°-60°)	479.5	5.6	B1/1000		
BH	(60°-80°)	227.0	2.7	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	899.1	896.0	896.0	902.2	905.4	908.5	914.7	914.7	914.7	920.9	924.0
5°	855.6	855.6	858.7	864.9	877.4	886.7	905.4	908.5	911.6	927.1	933.4
7.5°	827.6	827.6	830.7	843.1	858.7	880.5	905.4	911.6	920.9	942.7	958.2
10°	824.5	821.4	827.6	840.0	858.7	886.7	914.7	924.0	942.7	970.7	992.5
12.5°	833.8	830.7	836.9	849.4	868.0	896.0	933.4	948.9	970.7	1008.0	1039.1
15°	840.0	836.9	843.1	858.7	880.5	914.7	958.2	976.9	1004.9	1057.8	1088.9
17.5°	858.7	855.6	858.7	871.1	892.9	930.2	986.2	1004.9	1051.6	1110.7	1144.9
20°	942.7	939.6	920.9	914.7	917.8	952.0	1023.6	1054.7	1110.7	1185.4	1210.2
22.5°	1116.9	1104.5	1070.2	1014.2	976.9	989.4	1070.2	1104.5	1179.1	1263.1	1281.8
25°	1350.3	1340.9	1291.1	1194.7	1088.9	1057.8	1123.1	1169.8	1260.0	1353.4	1347.1
27.5°	1614.7	1596.0	1549.4	1415.6	1272.5	1169.8	1188.5	1228.9	1328.5	1428.0	1396.9
30°	1844.9	1838.7	1785.8	1673.8	1505.8	1353.4	1288.0	1309.8	1400.0	1505.8	1468.5
32.5°	2056.5	2037.8	1994.3	1888.5	1732.9	1577.4	1446.7	1446.7	1521.4	1645.8	1589.8
35°	2289.8	2277.4	2224.5	2118.7	1969.4	1785.8	1667.6	1655.1	1717.4	1857.4	1736.0
37.5°	2529.4	2498.3	2473.4	2364.5	2215.2	2056.5	1913.4	1885.4	1916.5	2019.2	1869.8
40°	2828.1	2828.1	2772.1	2672.5	2532.5	2364.5	2165.4	2093.8	2084.5	2218.3	2103.2
42.5°	3176.5	3167.2	3120.5	3027.2	2893.4	2737.8	2485.8	2420.5	2414.3	2576.1	2439.2
45°	3577.9	3571.6	3515.6	3437.9	3344.5	3173.4	2924.5	2859.2	2821.8	3008.5	2846.7
47.5°	3945.0	3923.2	3904.5	3913.9	3861.0	3668.1	3434.7	3357.0	3353.9	3500.1	3291.6
50°	4197.0	4184.5	4249.9	4312.1	4411.7	4290.3	4013.4	3945.0	3892.1	4085.0	3755.2
52.5°	4361.9	4355.7	4486.3	4663.7	4869.0	4859.7	4613.9	4573.4	4529.9	4582.8	4169.0
55°	4427.2	4427.2	4582.8	4909.4	5270.3	5425.9	5310.8	5254.8	5102.3	4993.4	4623.2
57.5°	4349.4	4340.1	4542.3	4968.6	5519.2	5839.7	5889.5	5824.1	5584.6	5463.2	5127.2
60°	4019.6	4025.9	4265.4	4803.7	5500.6	6007.7	6328.1	6269.0	6029.5	5849.0	5550.3
62.5°	3403.6	3456.5	3708.5	4293.4	5102.3	5873.9	6580.1	6611.3	6353.0	6129.0	5926.8
65°	2557.4	2604.1	2843.6	3490.7	4377.4	5425.9	6626.8	6748.1	6539.7	6312.6	5985.9
67.5°	1555.6	1571.1	1863.6	2352.1	3223.2	4520.5	6300.1	6564.6	6415.3	6041.9	5401.0
70°	724.9	765.4	908.5	1284.9	2040.9	3329.0	5444.6	5817.9	5649.9	5186.3	4106.8
72.5°	283.1	295.6	385.8	594.2	1082.7	2093.8	4063.2	4312.1	4197.0	3683.6	2448.5
75°	140.0	149.3	186.7	283.1	494.7	864.9	2482.7	2644.5	2454.7	1851.2	1036.0
77.5°	102.7	102.7	124.4	174.2	270.7	320.5	1045.4	1172.9	1107.6	715.6	283.1
80°	68.4	74.7	87.1	118.2	171.1	155.6	395.1	469.8	392.0	220.9	99.6
82.5°	40.4	43.6	65.3	84.0	115.1	90.2	133.8	149.3	161.8	108.9	46.7
85°	21.8	21.8	43.6	62.2	62.2	40.4	46.7	52.9	62.2	65.3	24.9
87.5°	6.2	6.2	28.0	37.3	24.9	21.8	24.9	24.9	28.0	34.2	12.4
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°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	927.1	927.1	930.2	930.2	933.4	933.4	933.4	933.4	936.5	939.6	939.6
5°	936.5	939.6	939.6	939.6	939.6	933.4	930.2	927.1	927.1	930.2	930.2
7.5°	961.4	964.5	961.4	955.1	945.8	933.4	920.9	920.9	917.8	920.9	917.8
10°	998.7	998.7	995.6	980.0	964.5	939.6	914.7	896.0	883.6	880.5	874.2
12.5°	1045.4	1045.4	1036.0	1008.0	980.0	933.4	868.0	805.8	756.0	734.2	728.0
15°	1092.0	1092.0	1079.6	1039.1	983.1	871.1	734.2	603.6	528.9	497.8	479.1
17.5°	1148.0	1141.8	1120.0	1064.0	948.9	746.7	525.8	392.0	332.9	304.9	304.9
20°	1207.1	1200.9	1160.5	1067.1	861.8	535.1	342.2	270.7	255.1	248.9	248.9
22.5°	1272.5	1256.9	1194.7	1042.2	678.2	364.0	258.2	239.6	233.3	230.2	230.2
25°	1325.4	1300.5	1219.6	973.8	485.3	255.1	227.1	220.9	208.4	205.3	199.1
27.5°	1365.8	1328.5	1228.9	827.6	320.5	211.6	202.2	189.8	177.3	164.9	164.9
30°	1418.7	1372.0	1235.1	644.0	217.8	183.6	174.2	158.7	143.1	130.7	130.7
32.5°	1524.5	1456.0	1238.2	451.1	180.4	161.8	143.1	124.4	108.9	102.7	99.6
35°	1639.6	1546.3	1204.0	292.5	158.7	136.9	115.1	99.6	84.0	80.9	80.9
37.5°	1767.2	1680.0	1129.4	199.1	140.0	115.1	93.3	77.8	68.4	65.3	65.3
40°	1981.8	1879.2	1004.9	158.7	121.3	96.4	77.8	65.3	59.1	56.0	56.0
42.5°	2289.8	2112.5	849.4	136.9	105.8	80.9	62.2	52.9	49.8	46.7	46.7
45°	2644.5	2373.8	668.9	124.4	93.3	68.4	52.9	46.7	43.6	40.4	40.4
47.5°	3052.1	2644.5	528.9	108.9	80.9	59.1	46.7	40.4	37.3	34.2	34.2
50°	3437.9	2856.1	398.2	96.4	71.6	49.8	40.4	37.3	34.2	31.1	31.1
52.5°	3755.2	2999.2	301.8	84.0	62.2	43.6	37.3	34.2	28.0	28.0	28.0
55°	4137.9	3111.2	230.2	74.7	56.0	40.4	34.2	28.0	24.9	21.8	21.8
57.5°	4470.8	3151.6	168.0	65.3	49.8	37.3	31.1	24.9	18.7	15.6	15.6
60°	4694.8	3117.4	121.3	56.0	43.6	31.1	24.9	18.7	12.4	9.3	9.3
62.5°	4853.4	3042.7	93.3	49.8	37.3	28.0	21.8	15.6	9.3	6.2	6.2
65°	4694.8	2812.5	74.7	43.6	31.1	24.9	15.6	12.4	6.2	3.1	3.1
67.5°	4060.1	2358.3	59.1	37.3	28.0	21.8	15.6	9.3	3.1	0.0	0.0
70°	2918.3	1683.1	49.8	34.2	24.9	18.7	12.4	6.2	3.1	0.0	0.0
72.5°	1627.1	868.0	46.7	31.1	24.9	18.7	12.4	6.2	3.1	0.0	0.0
75°	659.6	298.7	43.6	31.1	24.9	15.6	12.4	6.2	3.1	0.0	0.0
77.5°	192.9	102.7	37.3	28.0	24.9	18.7	12.4	6.2	3.1	0.0	0.0
80°	68.4	46.7	28.0	24.9	18.7	15.6	12.4	9.3	3.1	0.0	0.0
82.5°	31.1	18.7	12.4	9.3	9.3	9.3	9.3	6.2	3.1	0.0	0.0
85°	12.4	9.3	6.2	3.1	3.1	3.1	3.1	3.1	3.1	0.0	0.0
87.5°	9.3	6.2	3.1	3.1	3.1	3.1	0.0	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)