

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: P572862

Luminaire Tested: **ARCH-S-PA2-120-827-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572862
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-PA2-120-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 7895 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

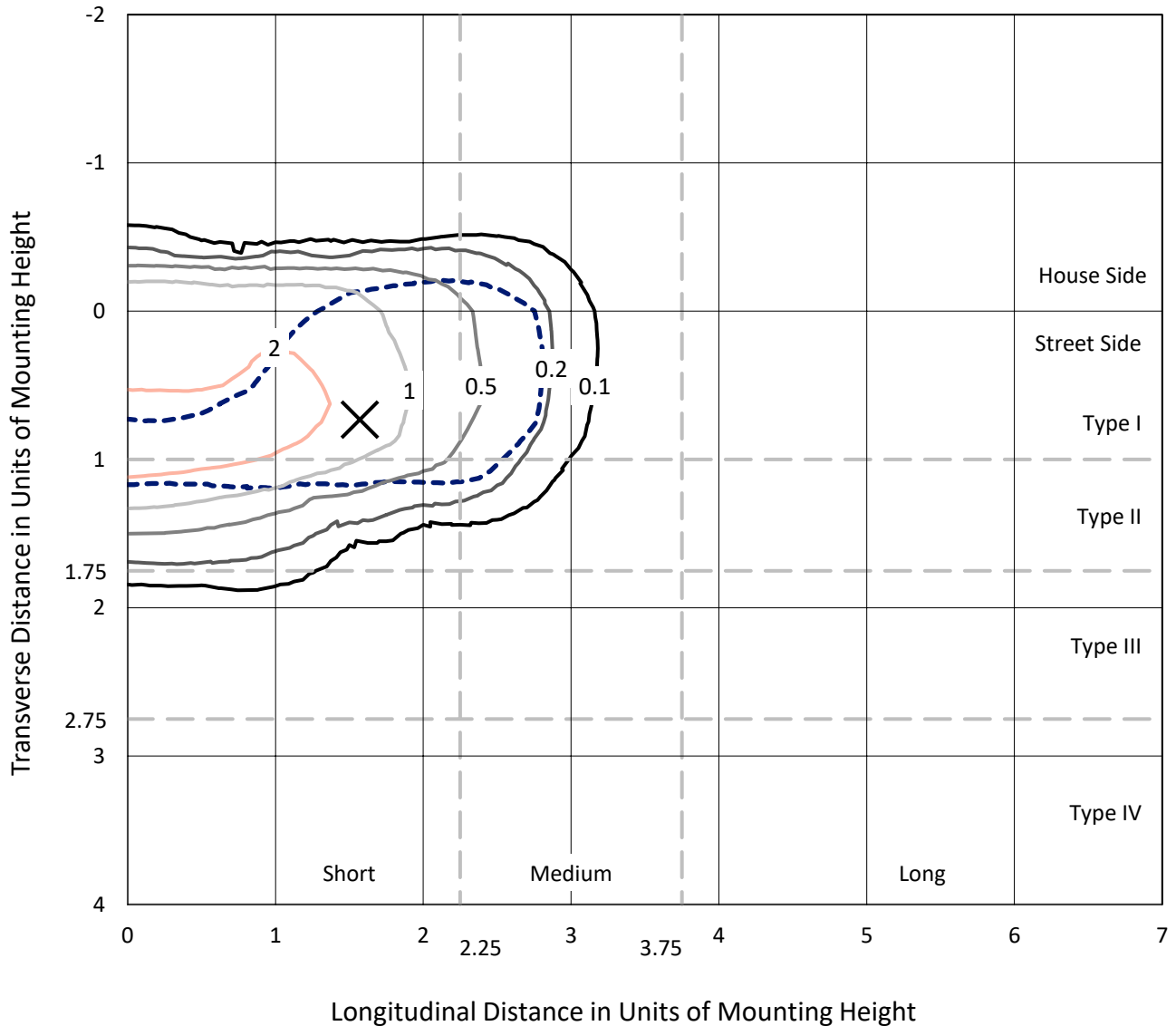
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

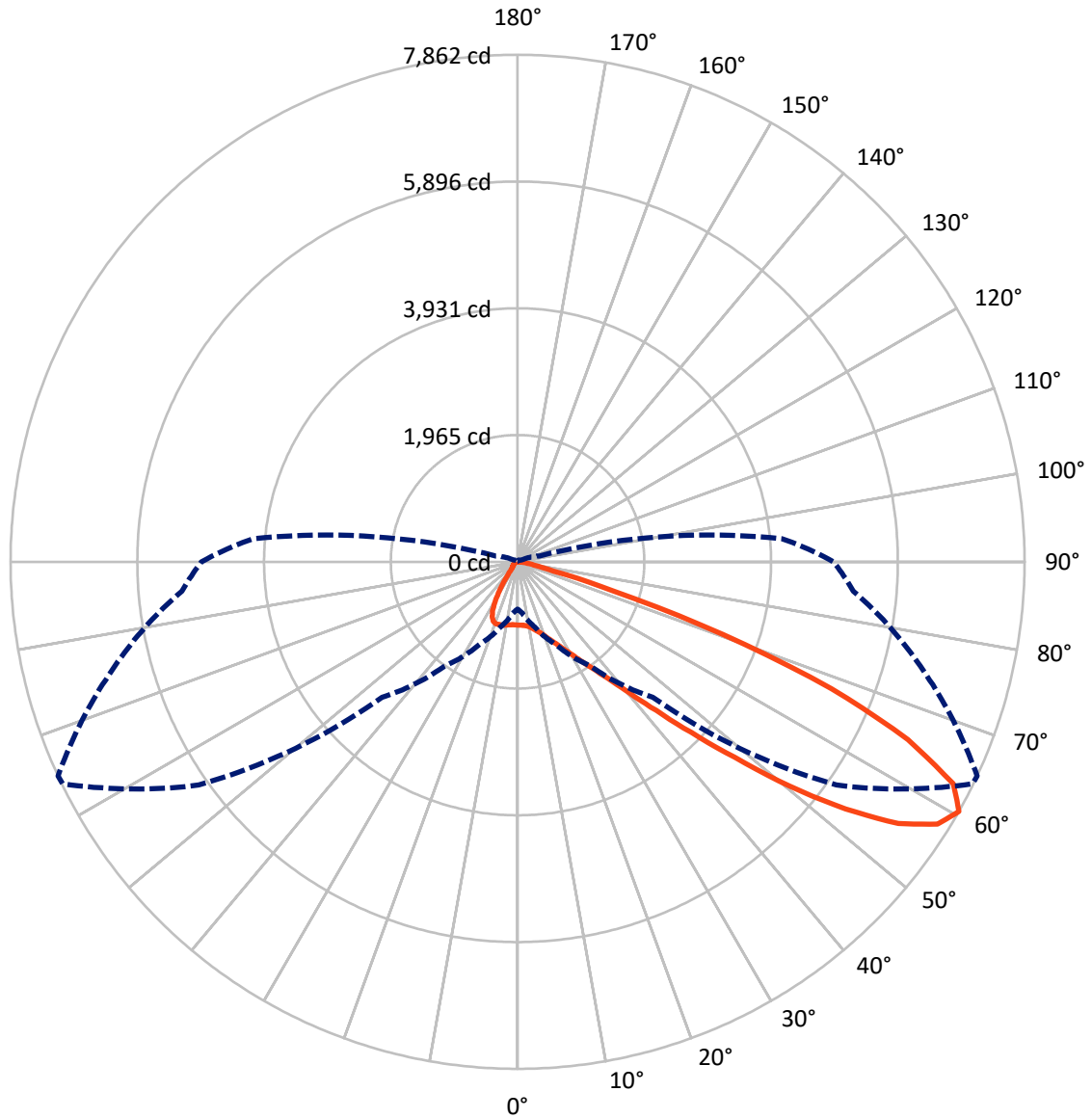
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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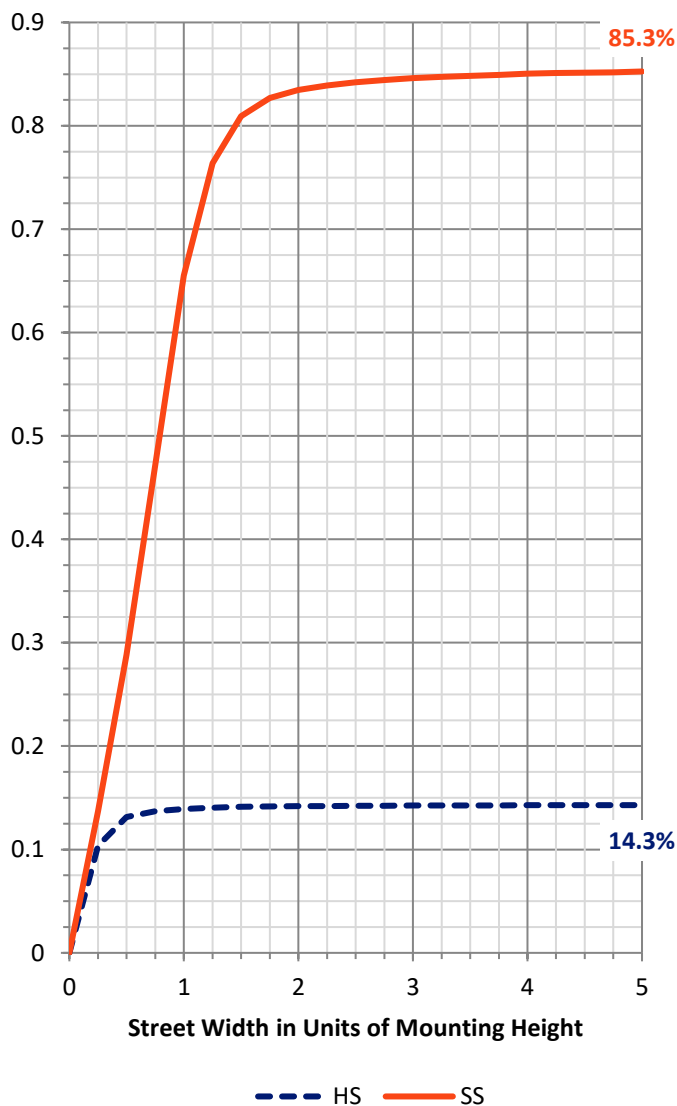
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.0	0.0	1143.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6752.0	0.0	6752.0
	% Fixture	85.5	0.0	85.5
Total	Lumens	7895.0	0.0	7895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.2
10°-20°	263.7	3.3
20°-30°	448.0	5.7
30°-40°	924.4	11.7
40°-50°	1859.0	23.5
50°-60°	2274.8	28.8
60°-70°	1609.3	20.4
70°-80°	387.8	4.9
80°-90°	35.0	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°	7895.0	100.0
0°-180°	7895.0	100.0

Coefficient of Utilization

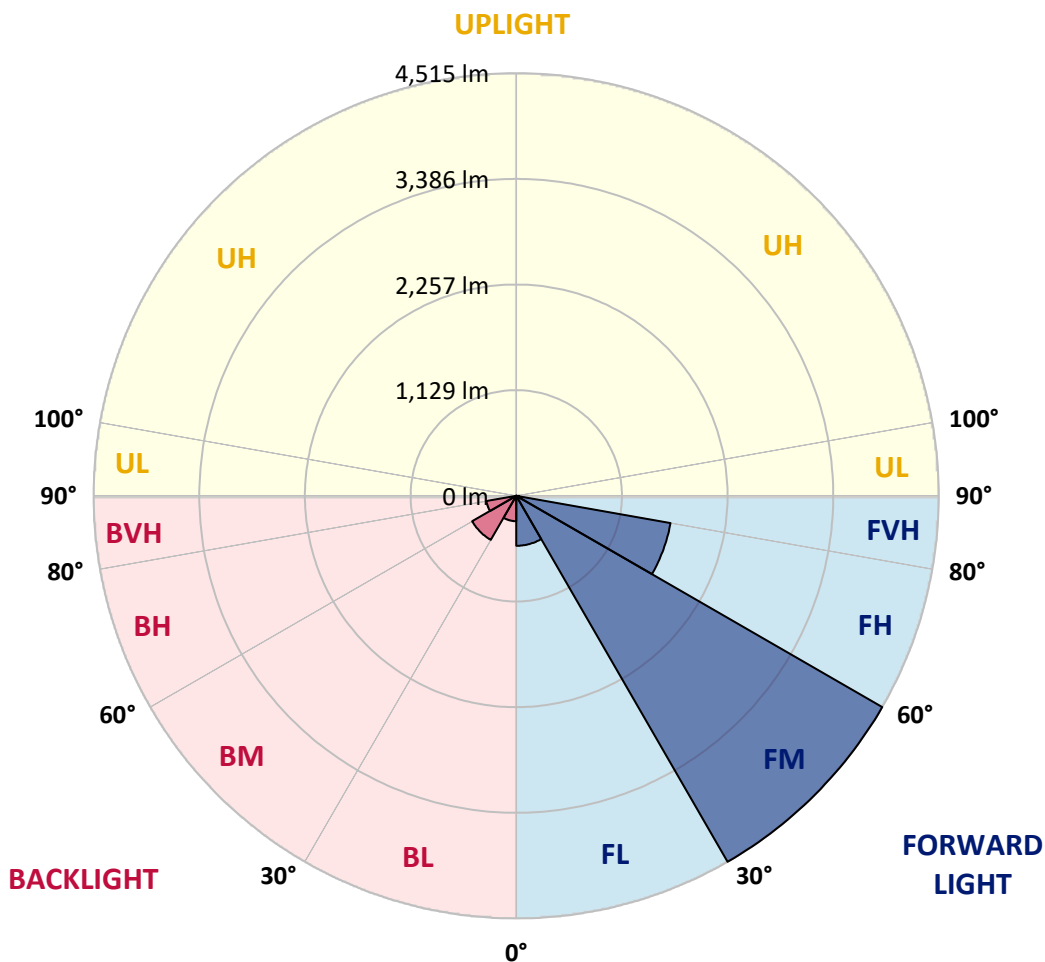


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.7	6.8			
FM (30°-60°)	4514.7	57.2			
FH (60°-80°)	1673.2	21.2			G1/1800
FVH (80°-90°)	30.5	0.4			G1/100
BL (0°-30°)	271.0	3.4	B1/500		
BM (30°-60°)	543.5	6.9	B1/1000		
BH (60°-80°)	324.0	4.1	B1/500		G1/500
BVH (80°-90°)	4.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5
2.5°	986.6	983.5	983.5	983.5	986.6	986.6	989.7	983.5	983.5	983.5	983.5
5°	980.4	977.3	977.3	980.4	983.5	983.5	989.7	989.7	989.7	992.9	992.9
7.5°	992.9	986.6	986.6	989.7	992.9	992.9	999.1	1002.2	1002.2	1008.4	1011.5
10°	1008.4	1005.3	1005.3	1011.5	1017.8	1017.8	1027.1	1027.1	1027.1	1033.3	1036.4
12.5°	1030.2	1027.1	1027.1	1036.4	1045.8	1052.0	1058.2	1061.3	1064.4	1064.4	1064.4
15°	1061.3	1058.2	1058.2	1067.6	1080.0	1095.6	1104.9	1104.9	1111.1	1108.0	1095.6
17.5°	1104.9	1101.8	1104.9	1111.1	1126.7	1142.3	1160.9	1164.0	1160.9	1154.7	1136.0
20°	1176.5	1167.2	1173.4	1188.9	1188.9	1198.3	1223.2	1232.5	1235.6	1217.0	1182.7
22.5°	1251.2	1251.2	1257.4	1276.1	1263.6	1276.1	1297.9	1313.4	1319.7	1304.1	1248.1
25°	1391.2	1397.5	1388.1	1381.9	1350.8	1357.0	1385.0	1416.1	1416.1	1403.7	1322.8
27.5°	1699.4	1693.1	1627.8	1537.5	1456.6	1462.8	1490.8	1531.3	1534.4	1506.4	1397.5
30°	2141.3	2147.6	2020.0	1814.5	1637.1	1590.4	1621.6	1668.2	1674.5	1627.8	1494.0
32.5°	2832.3	2779.4	2542.8	2268.9	1935.9	1767.8	1780.3	1830.1	1848.8	1808.3	1646.5
35°	3725.5	3601.1	3246.2	2907.0	2424.6	2085.3	1988.8	2041.7	2051.1	2029.3	1836.3
37.5°	4257.8	4158.2	3927.9	3619.7	3053.3	2508.6	2262.7	2315.6	2306.3	2262.7	2026.2
40°	4587.7	4531.7	4407.2	4264.0	3903.0	3174.7	2714.0	2670.4	2673.6	2611.3	2334.3
42.5°	4774.4	4724.6	4677.9	4715.3	4609.5	4382.3	3367.6	3168.4	3149.8	3031.5	2692.2
45°	4783.8	4709.1	4765.1	4983.0	5151.0	5452.9	4220.4	3759.8	3769.1	3573.0	3137.3
47.5°	4425.8	4366.7	4528.5	4954.9	5512.1	6153.2	5213.3	4569.0	4525.4	4139.5	3588.6
50°	3719.3	3716.2	3931.0	4534.8	5512.1	6514.3	6277.7	5518.3	5471.6	4730.9	3999.4
52.5°	2944.3	3003.5	3149.8	3722.4	5004.7	6480.0	7062.0	6498.7	6368.0	5256.9	4341.8
55°	2290.7	2268.9	2446.3	2841.6	3968.3	5888.7	7317.3	7270.6	7161.6	5723.7	4643.7
57.5°	1406.8	1487.7	1727.4	2079.1	2888.3	4631.3	6950.0	7740.5	7675.2	6159.4	4958.1
60°	731.4	793.7	1052.0	1419.3	1973.3	2969.2	6031.8	7849.5	7861.9	6511.1	5225.7
62.5°	460.6	457.5	575.8	996.0	1269.9	1668.2	4684.2	7463.5	7581.8	6781.9	5480.9
65°	345.5	348.6	395.3	659.8	862.1	871.5	2779.4	6455.1	6651.2	6853.5	5568.1
67.5°	320.6	323.7	345.5	432.6	647.4	582.0	1223.2	4976.7	5250.6	6193.7	5232.0
70°	286.3	289.5	323.7	357.9	488.6	426.4	550.9	2997.2	3377.0	4494.3	4186.2
72.5°	224.1	230.3	270.8	339.3	364.2	323.7	382.8	1325.9	1546.9	2471.2	2396.6
75°	165.0	168.1	205.4	261.4	320.6	230.3	295.7	526.0	575.8	927.5	790.6
77.5°	115.2	115.2	143.2	196.1	267.7	161.8	211.6	283.2	289.5	345.5	227.2
80°	71.6	74.7	90.3	133.8	165.0	155.6	130.7	189.9	189.9	180.5	93.4
82.5°	40.5	43.6	62.2	90.3	112.0	105.8	84.0	108.9	112.0	115.2	52.9
85°	18.7	21.8	37.3	56.0	65.4	49.8	49.8	56.0	56.0	74.7	31.1
87.5°	3.1	3.1	18.7	24.9	21.8	24.9	24.9	31.1	31.1	37.3	15.6
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°	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5	983.5
2.5°	980.4	980.4	980.4	977.3	977.3	974.2	968.0	968.0	968.0	968.0	971.1
5°	992.9	989.7	986.6	977.3	971.1	958.6	946.2	943.1	933.7	933.7	936.8
7.5°	1008.4	1008.4	999.1	983.5	968.0	946.2	924.4	908.8	893.3	890.1	887.0
10°	1036.4	1030.2	1020.9	992.9	968.0	933.7	899.5	859.0	827.9	812.3	806.1
12.5°	1058.2	1055.1	1036.4	1005.3	964.8	911.9	834.1	740.8	666.1	625.6	625.6
15°	1089.3	1083.1	1055.1	1011.5	955.5	831.0	672.3	529.1	448.2	404.6	398.4
17.5°	1120.5	1108.0	1073.8	1014.6	915.0	684.7	470.0	339.3	283.2	261.4	255.2
20°	1157.8	1136.0	1086.2	1017.8	815.4	498.0	305.0	227.2	205.4	196.1	199.2
22.5°	1207.6	1170.3	1098.7	999.1	666.1	323.7	214.8	183.6	171.2	161.8	161.8
25°	1269.9	1217.0	1120.5	946.2	482.4	217.9	171.2	152.5	140.1	133.8	130.7
27.5°	1325.9	1260.5	1142.3	852.8	308.1	171.2	143.2	127.6	115.2	112.0	108.9
30°	1400.6	1310.3	1164.0	703.4	202.3	140.1	121.4	105.8	96.5	93.4	93.4
32.5°	1528.2	1406.8	1204.5	535.3	152.5	121.4	102.7	90.3	84.0	80.9	80.9
35°	1677.6	1525.1	1238.7	373.5	130.7	102.7	87.1	77.8	74.7	71.6	71.6
37.5°	1833.2	1665.1	1245.0	236.5	115.2	90.3	77.8	71.6	65.4	65.4	65.4
40°	2113.3	1911.0	1217.0	158.7	99.6	80.9	68.5	65.4	59.1	59.1	59.1
42.5°	2440.1	2209.8	1145.4	127.6	90.3	71.6	65.4	59.1	52.9	52.9	49.8
45°	2863.4	2549.1	1024.0	112.0	80.9	65.4	59.1	52.9	49.8	46.7	46.7
47.5°	3261.8	2935.0	908.8	99.6	74.7	62.2	52.9	46.7	43.6	43.6	43.6
50°	3641.5	3230.7	775.0	93.4	68.5	59.1	49.8	43.6	40.5	37.3	37.3
52.5°	3915.4	3464.1	650.5	84.0	62.2	52.9	46.7	40.5	34.2	31.1	31.1
55°	4220.4	3700.6	538.4	74.7	59.1	49.8	40.5	34.2	28.0	24.9	24.9
57.5°	4562.8	3931.0	435.7	68.5	56.0	43.6	34.2	28.0	21.8	18.7	18.7
60°	4902.0	4114.6	348.6	62.2	49.8	40.5	31.1	21.8	15.6	12.4	12.4
62.5°	5241.3	4239.1	267.7	56.0	46.7	34.2	24.9	15.6	9.3	6.2	6.2
65°	5381.3	4204.9	199.2	49.8	40.5	28.0	21.8	15.6	9.3	6.2	6.2
67.5°	4992.3	3781.6	140.1	49.8	37.3	28.0	18.7	12.4	6.2	3.1	3.1
70°	3896.7	2919.4	102.7	49.8	37.3	28.0	18.7	12.4	6.2	3.1	3.1
72.5°	2209.8	1624.7	77.8	43.6	34.2	24.9	18.7	12.4	6.2	3.1	3.1
75°	787.4	522.9	59.1	40.5	31.1	21.8	18.7	12.4	6.2	3.1	3.1
77.5°	189.9	133.8	46.7	34.2	28.0	21.8	15.6	12.4	9.3	3.1	3.1
80°	77.8	56.0	37.3	28.0	21.8	18.7	15.6	12.4	6.2	3.1	3.1
82.5°	34.2	28.0	15.6	15.6	12.4	12.4	12.4	12.4	6.2	3.1	3.1
85°	15.6	12.4	6.2	6.2	3.1	3.1	3.1	6.2	6.2	3.1	3.1
87.5°	9.3	6.2	6.2	6.2	3.1	3.1	3.1	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)