

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: P572945

Luminaire Tested: **ARCH-S-PA2-130-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572945
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-PA2-130-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA 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: 8868 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

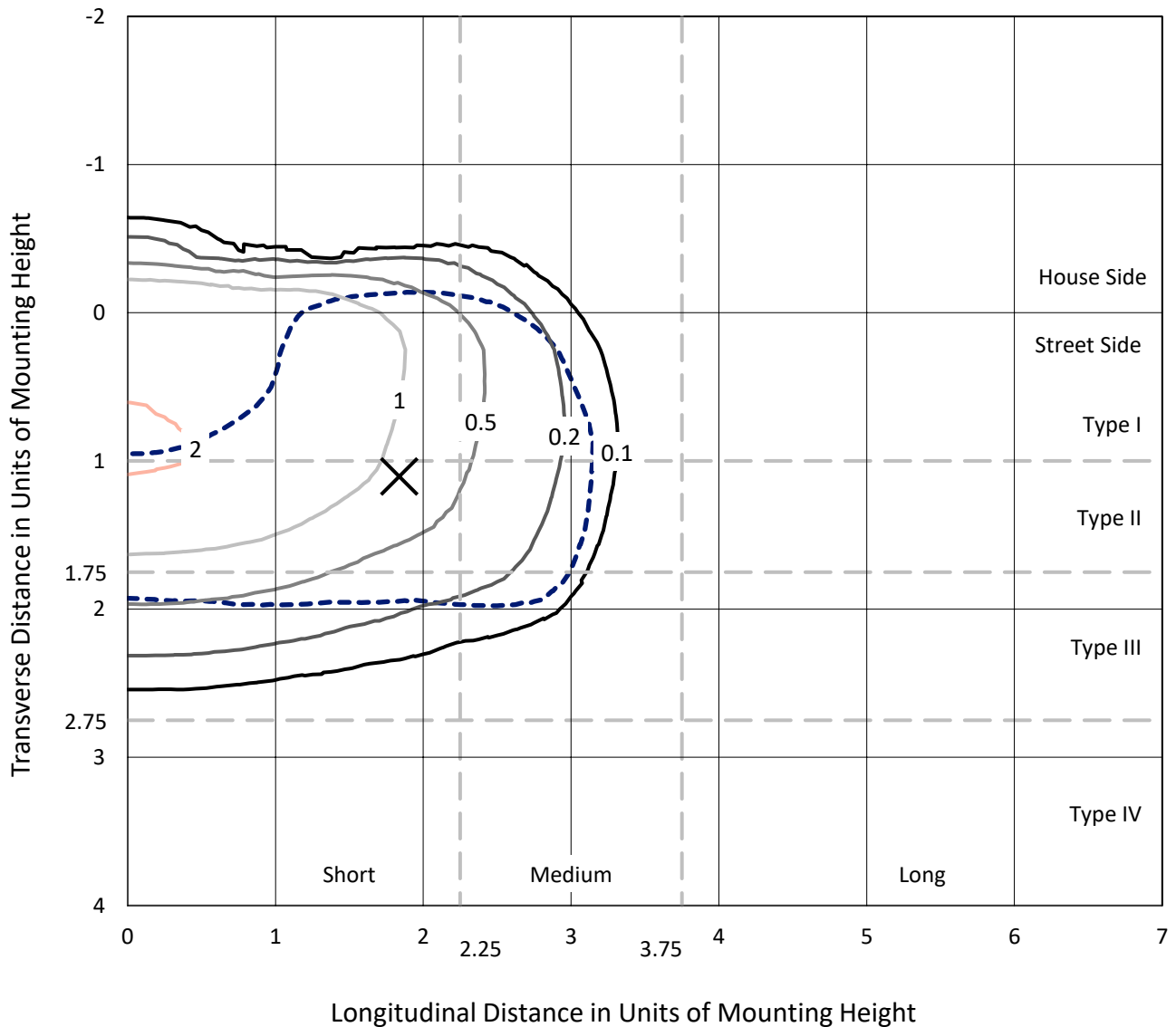
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

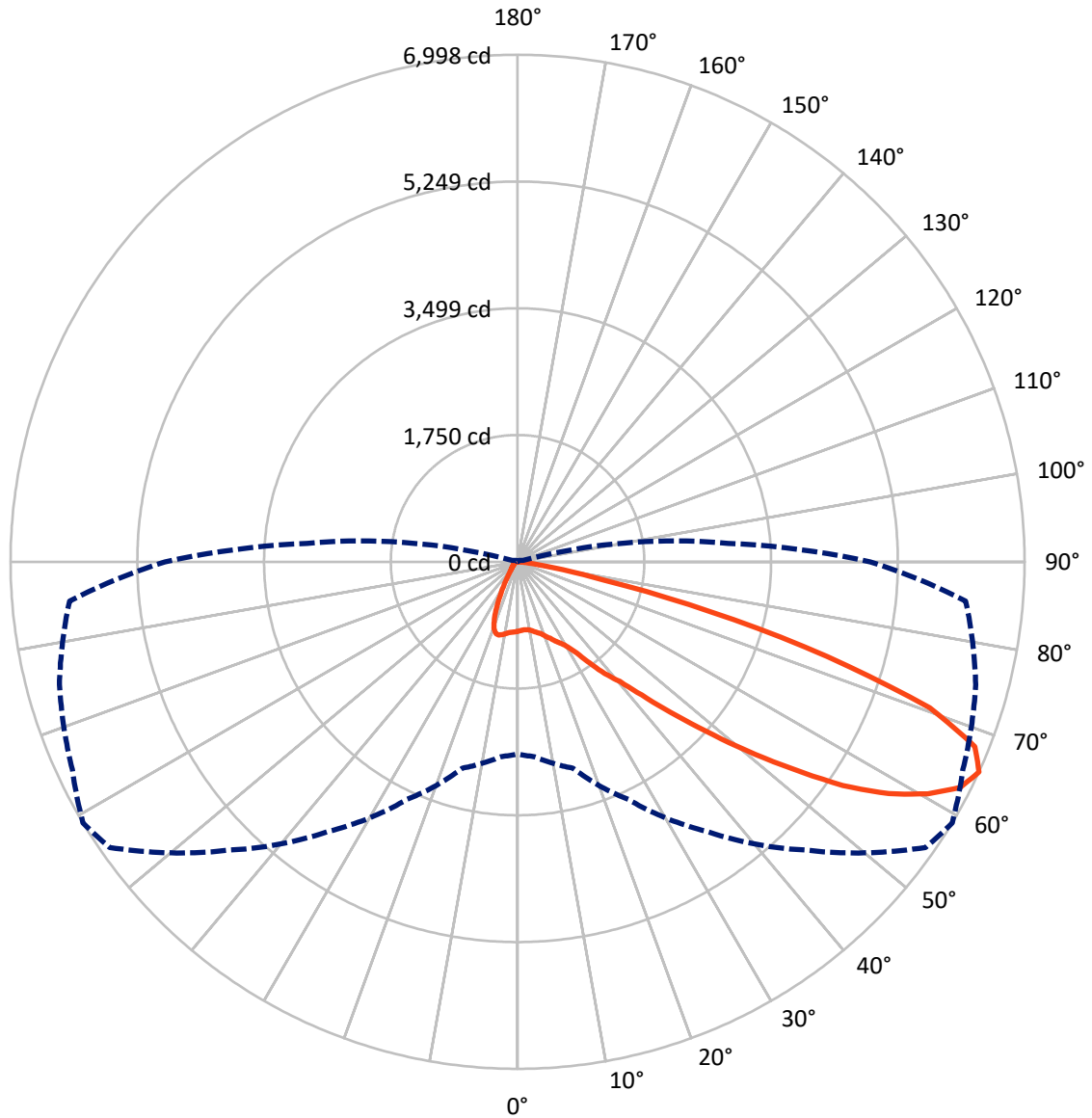
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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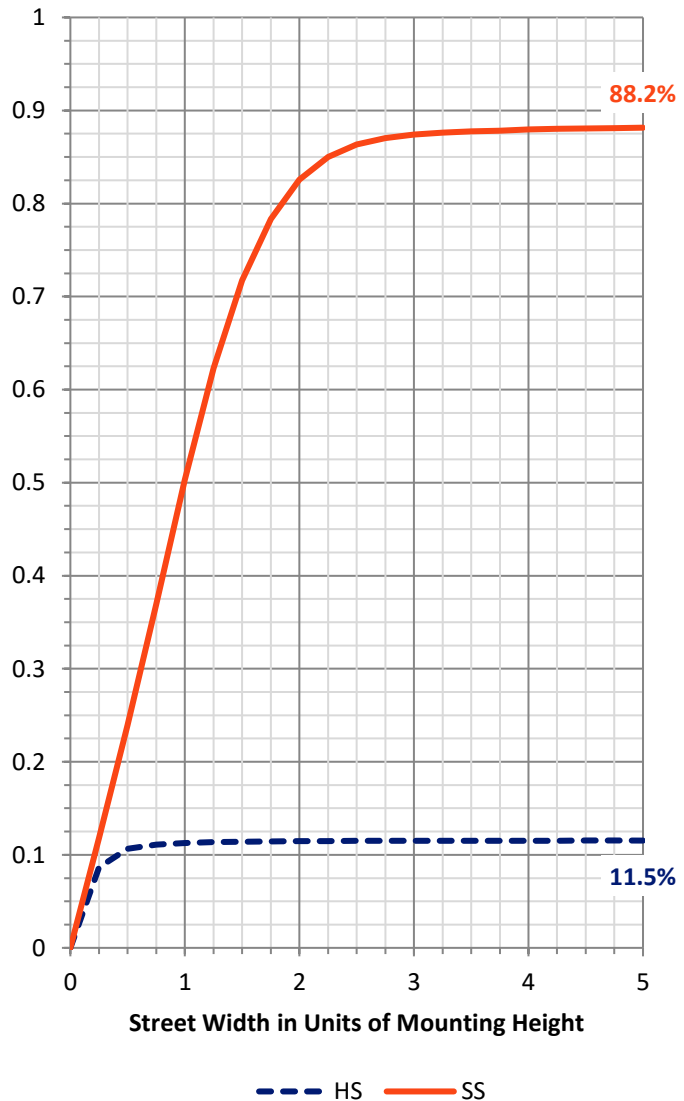
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.5	0.0	1034.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7833.5	0.0	7833.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	8868.0	0.0	8868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.0
10°-20°	257.3	2.9
20°-30°	436.9	4.9
30°-40°	774.0	8.7
40°-50°	1460.0	16.5
50°-60°	2470.3	27.9
60°-70°	2568.4	29.0
70°-80°	770.2	8.7
80°-90°	40.4	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°	8868.0	100.0
0°-180°	8868.0	100.0

Coefficient of Utilization

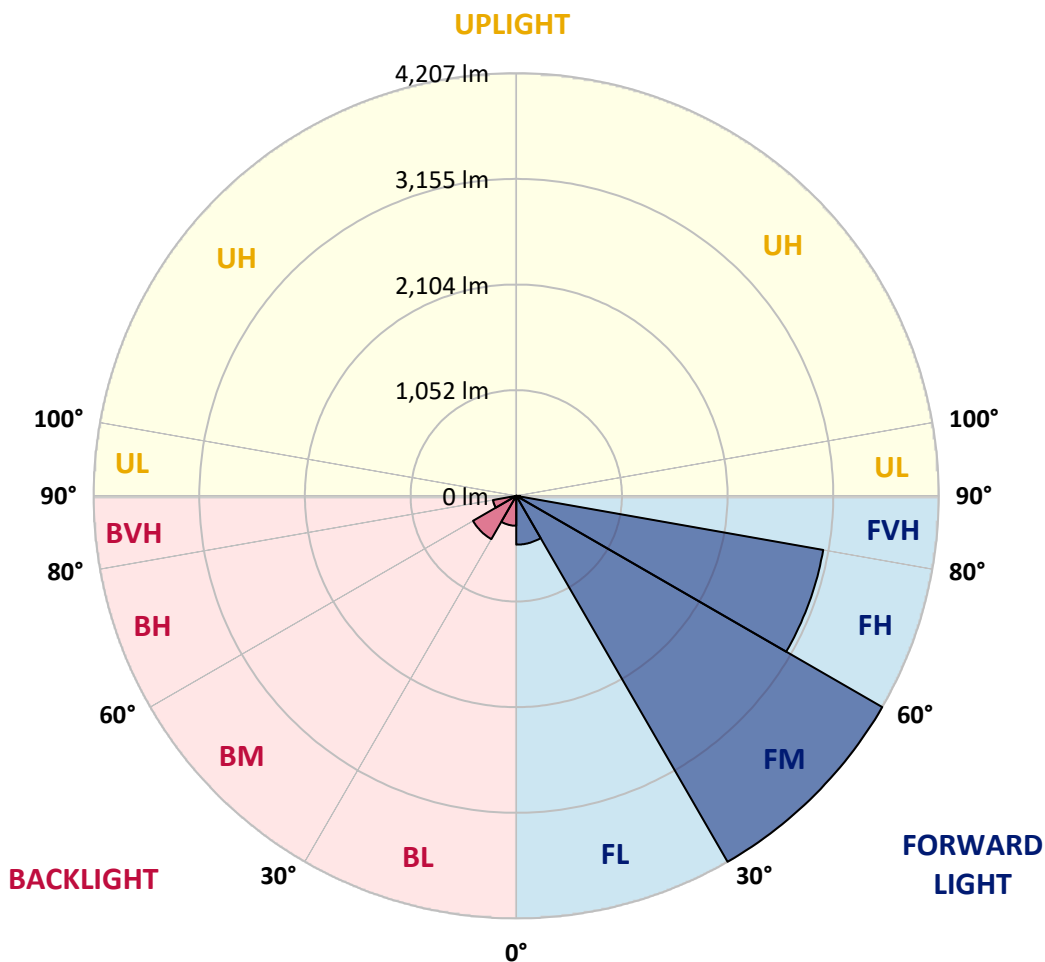


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.3	5.5			
FM	(30°-60°)	4207.0	47.4			
FH	(60°-80°)	3103.2	35.0			G2/5000
FVH	(80°-90°)	37.0	0.4			G1/100
BL	(0°-30°)	298.4	3.4	B1/500		
BM	(30°-60°)	497.3	5.6	B1/1000		
BH	(60°-80°)	235.4	2.7	B1/500		G1/500
BVH	(80°-90°)	3.4	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°	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3
2.5°	932.5	929.2	929.2	935.7	938.9	942.1	948.6	948.6	948.6	955.0	958.3
5°	887.3	887.3	890.5	897.0	909.9	919.6	938.9	942.1	945.4	961.5	968.0
7.5°	858.3	858.3	861.5	874.4	890.5	913.1	938.9	945.4	955.0	977.6	993.8
10°	855.0	851.8	858.3	871.2	890.5	919.6	948.6	958.3	977.6	1006.7	1029.3
12.5°	864.7	861.5	867.9	880.8	900.2	929.2	968.0	984.1	1006.7	1045.4	1077.7
15°	871.2	867.9	874.4	890.5	913.1	948.6	993.8	1013.1	1042.2	1097.0	1129.3
17.5°	890.5	887.3	890.5	903.4	926.0	964.7	1022.8	1042.2	1090.6	1151.9	1187.4
20°	977.6	974.4	955.0	948.6	951.8	987.3	1061.5	1093.8	1151.9	1229.3	1255.1
22.5°	1158.3	1145.4	1109.9	1051.8	1013.1	1026.0	1109.9	1145.4	1222.8	1310.0	1329.3
25°	1400.3	1390.6	1339.0	1239.0	1129.3	1097.0	1164.8	1213.2	1306.7	1403.5	1397.1
27.5°	1674.6	1655.2	1606.8	1468.1	1319.6	1213.2	1232.5	1274.5	1377.7	1481.0	1448.7
30°	1913.3	1906.9	1852.0	1735.9	1561.6	1403.5	1335.8	1358.4	1451.9	1561.6	1522.9
32.5°	2132.7	2113.4	2068.2	1958.5	1797.2	1635.8	1500.3	1500.3	1577.8	1706.8	1648.8
35°	2374.7	2361.8	2307.0	2197.3	2042.4	1852.0	1729.4	1716.5	1781.0	1926.2	1800.4
37.5°	2623.2	2590.9	2565.1	2452.2	2297.3	2132.7	1984.3	1955.3	1987.5	2094.0	1939.1
40°	2932.9	2932.9	2874.8	2771.6	2626.4	2452.2	2245.7	2171.4	2161.8	2300.5	2181.1
42.5°	3294.3	3284.6	3236.2	3139.4	3000.7	2839.3	2578.0	2510.2	2503.8	2671.6	2529.6
45°	3710.5	3704.0	3646.0	3565.3	3468.5	3291.0	3032.9	2965.2	2926.5	3120.0	2952.3
47.5°	4091.2	4068.6	4049.3	4059.0	4004.1	3804.1	3562.1	3481.4	3478.2	3629.8	3413.7
50°	4352.6	4339.7	4407.4	4472.0	4575.2	4449.4	4162.2	4091.2	4036.4	4236.4	3894.4
52.5°	4523.6	4517.1	4652.6	4836.5	5049.5	5039.8	4784.9	4743.0	4697.8	4752.7	4323.5
55°	4591.3	4591.3	4752.7	5091.4	5465.7	5627.0	5507.7	5449.6	5291.5	5178.6	4794.6
57.5°	4510.7	4501.0	4710.7	5152.7	5723.8	6056.2	6107.8	6040.0	5791.6	5665.8	5317.3
60°	4168.7	4175.1	4423.6	4981.7	5704.5	6230.4	6562.7	6501.4	6253.0	6065.9	5756.1
62.5°	3529.8	3584.7	3846.0	4452.6	5291.5	6091.7	6824.1	6856.3	6588.5	6356.2	6146.5
65°	2652.2	2700.6	2949.0	3620.2	4539.7	5627.0	6872.5	6998.3	6782.1	6546.6	6207.8
67.5°	1613.3	1629.4	1932.7	2439.2	3342.7	4688.1	6533.7	6808.0	6653.1	6265.9	5601.2
70°	751.8	793.7	942.1	1332.6	2116.6	3452.4	5646.4	6033.6	5859.4	5378.6	4259.0
72.5°	293.6	306.5	400.1	616.3	1122.8	2171.4	4213.8	4472.0	4352.6	3820.2	2539.3
75°	145.2	154.9	193.6	293.6	513.0	897.0	2574.8	2742.5	2545.7	1919.8	1074.4
77.5°	106.5	106.5	129.1	180.7	280.7	332.3	1084.1	1216.4	1148.6	742.1	293.6
80°	71.0	77.4	90.3	122.6	177.5	161.3	409.8	487.2	406.5	229.1	103.2
82.5°	41.9	45.2	67.8	87.1	119.4	93.6	138.7	154.9	167.8	112.9	48.4
85°	22.6	22.6	45.2	64.5	64.5	41.9	48.4	54.9	64.5	67.8	25.8
87.5°	6.5	6.5	29.0	38.7	25.8	22.6	25.8	25.8	29.0	35.5	12.9
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°	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3	958.3
2.5°	961.5	961.5	964.7	964.7	968.0	968.0	968.0	968.0	971.2	974.4	974.4
5°	971.2	974.4	974.4	974.4	974.4	968.0	964.7	961.5	961.5	964.7	964.7
7.5°	997.0	1000.2	997.0	990.5	980.9	968.0	955.0	955.0	951.8	955.0	951.8
10°	1035.7	1035.7	1032.5	1016.4	1000.2	974.4	948.6	929.2	916.3	913.1	906.7
12.5°	1084.1	1084.1	1074.4	1045.4	1016.4	968.0	900.2	835.7	784.0	761.5	755.0
15°	1132.5	1132.5	1119.6	1077.7	1019.6	903.4	761.5	625.9	548.5	516.2	496.9
17.5°	1190.6	1184.1	1161.5	1103.5	984.1	774.4	545.3	406.5	345.2	316.2	316.2
20°	1251.9	1245.4	1203.5	1106.7	893.7	555.0	354.9	280.7	264.6	258.1	258.1
22.5°	1319.6	1303.5	1239.0	1080.9	703.4	377.5	267.8	248.4	242.0	238.8	238.8
25°	1374.5	1348.7	1264.8	1009.9	503.3	264.6	235.5	229.1	216.2	213.0	206.5
27.5°	1416.4	1377.7	1274.5	858.3	332.3	219.4	209.7	196.8	183.9	171.0	171.0
30°	1471.3	1422.9	1280.9	667.9	225.9	190.4	180.7	164.6	148.4	135.5	135.5
32.5°	1581.0	1510.0	1284.2	467.8	187.1	167.8	148.4	129.1	112.9	106.5	103.2
35°	1700.4	1603.6	1248.7	303.3	164.6	142.0	119.4	103.2	87.1	83.9	83.9
37.5°	1832.7	1742.3	1171.2	206.5	145.2	119.4	96.8	80.7	71.0	67.8	67.8
40°	2055.3	1948.8	1042.2	164.6	125.8	100.0	80.7	67.8	61.3	58.1	58.1
42.5°	2374.7	2190.8	880.8	142.0	109.7	83.9	64.5	54.9	51.6	48.4	48.4
45°	2742.5	2461.8	693.7	129.1	96.8	71.0	54.9	48.4	45.2	41.9	41.9
47.5°	3165.2	2742.5	548.5	112.9	83.9	61.3	48.4	41.9	38.7	35.5	35.5
50°	3565.3	2961.9	413.0	100.0	74.2	51.6	41.9	38.7	35.5	32.3	32.3
52.5°	3894.4	3110.4	313.0	87.1	64.5	45.2	38.7	35.5	29.0	29.0	29.0
55°	4291.3	3226.5	238.8	77.4	58.1	41.9	35.5	29.0	25.8	22.6	22.6
57.5°	4636.5	3268.5	174.2	67.8	51.6	38.7	32.3	25.8	19.4	16.1	16.1
60°	4868.8	3233.0	125.8	58.1	45.2	32.3	25.8	19.4	12.9	9.7	9.7
62.5°	5033.4	3155.5	96.8	51.6	38.7	29.0	22.6	16.1	9.7	6.5	6.5
65°	4868.8	2916.8	77.4	45.2	32.3	25.8	16.1	12.9	6.5	3.2	3.2
67.5°	4210.6	2445.7	61.3	38.7	29.0	22.6	16.1	9.7	3.2	0.0	0.0
70°	3026.5	1745.5	51.6	35.5	25.8	19.4	12.9	6.5	3.2	0.0	0.0
72.5°	1687.5	900.2	48.4	32.3	25.8	19.4	12.9	6.5	3.2	0.0	0.0
75°	684.0	309.7	45.2	32.3	25.8	16.1	12.9	6.5	3.2	0.0	0.0
77.5°	200.0	106.5	38.7	29.0	25.8	19.4	12.9	6.5	3.2	0.0	0.0
80°	71.0	48.4	29.0	25.8	19.4	16.1	12.9	9.7	3.2	0.0	0.0
82.5°	32.3	19.4	12.9	9.7	9.7	9.7	9.7	6.5	3.2	0.0	0.0
85°	12.9	9.7	6.5	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0
87.5°	9.7	6.5	3.2	3.2	3.2	3.2	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)