

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: P572980

Luminaire Tested: **ARCH-S-PA2-20-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

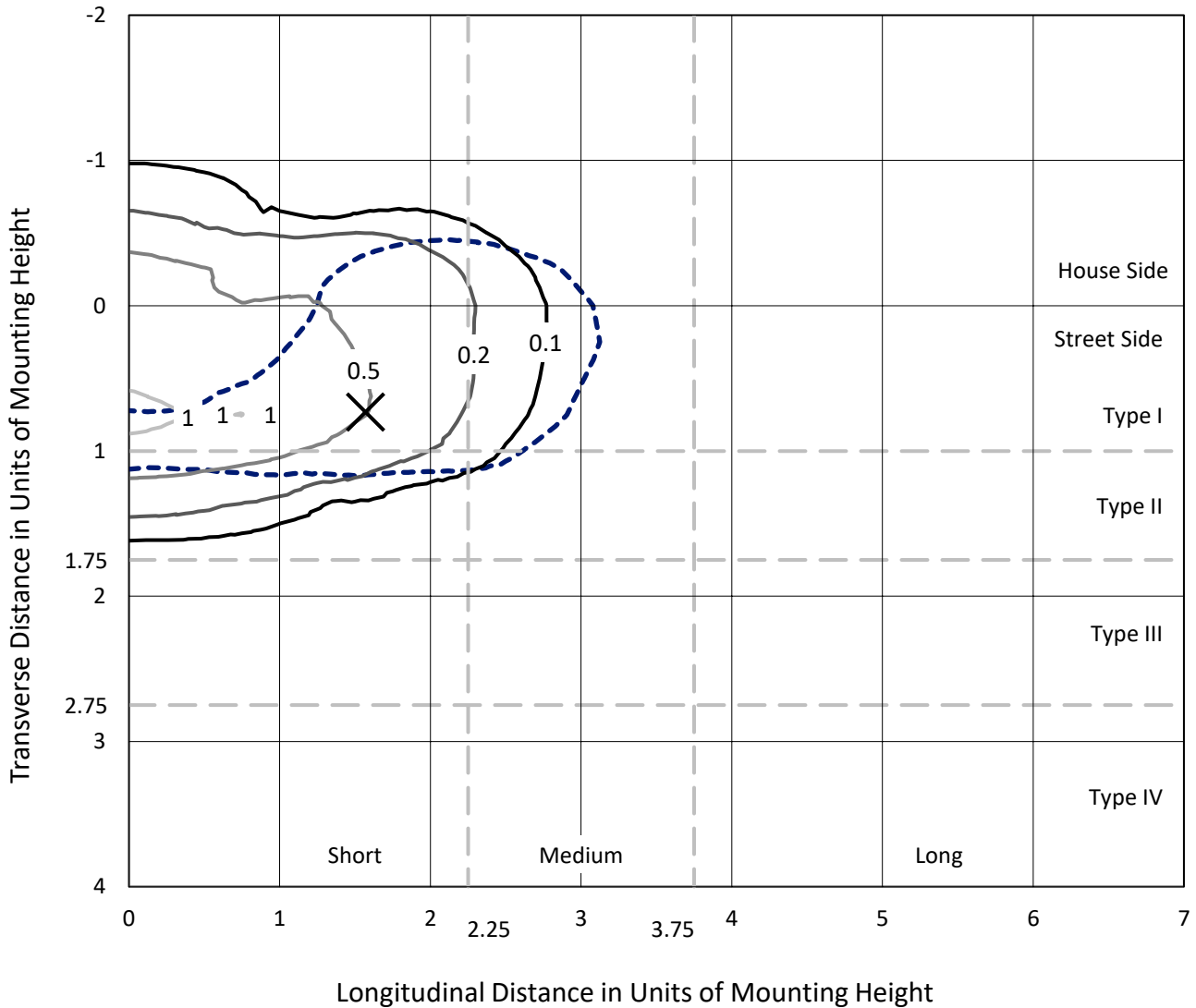
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

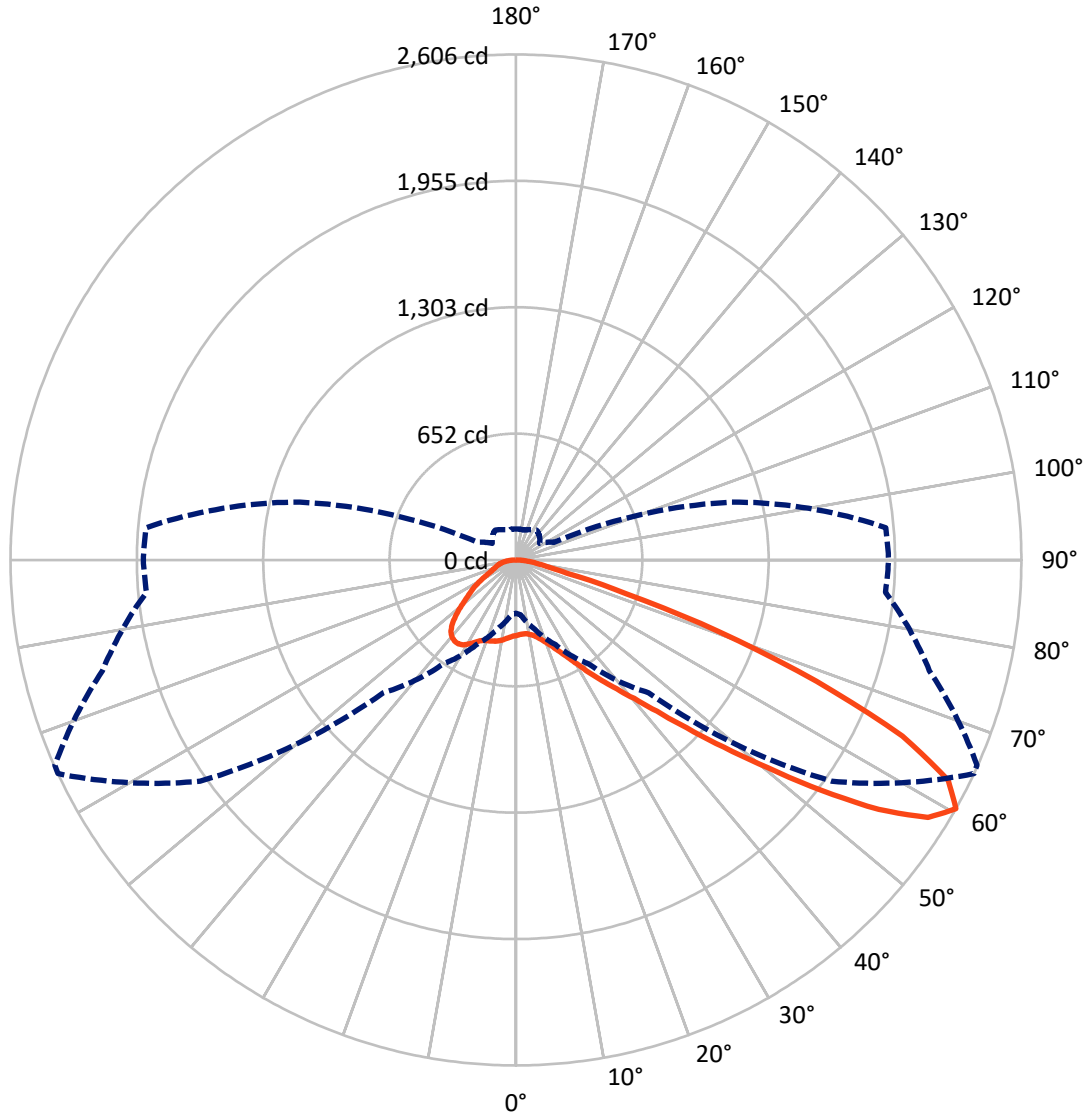
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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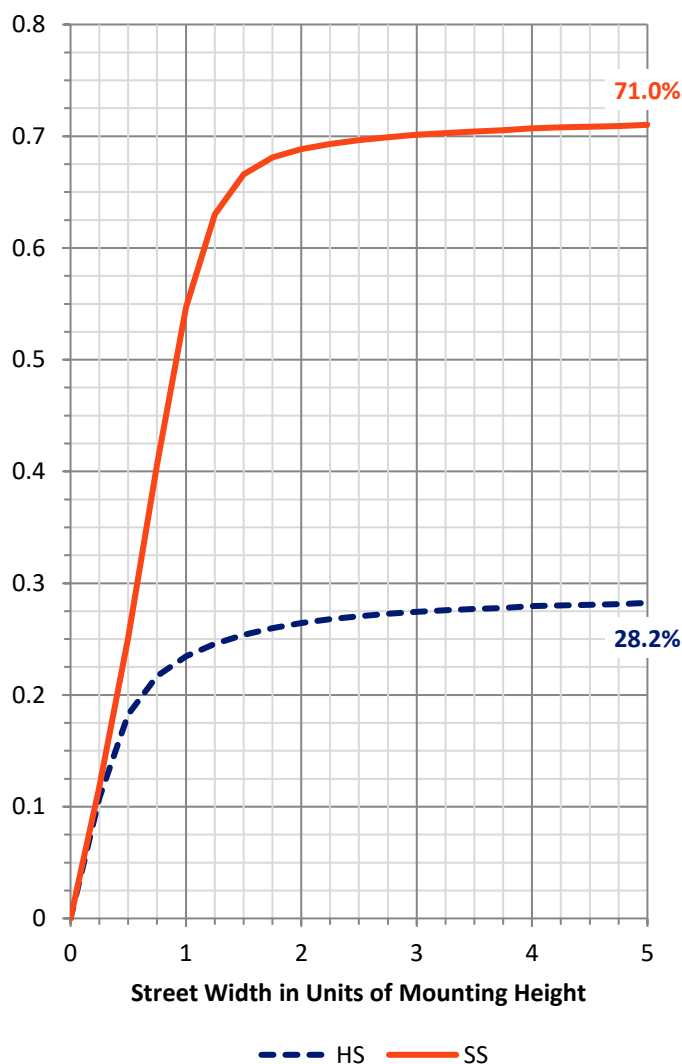
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	951.0	0.0	951.0
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2371.0	0.0	2371.0
	% Fixture	71.4	0.0	71.4
Total	Lumens	3322.0	0.0	3322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	1.1
10°-20°	121.2	3.6
20°-30°	232.3	7.0
30°-40°	403.5	12.1
40°-50°	684.3	20.6
50°-60°	852.2	25.7
60°-70°	686.7	20.7
70°-80°	260.0	7.8
80°-90°	44.1	1.3
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°	3322.0	100.0
0°-180°	3322.0	100.0

Coefficient of Utilization



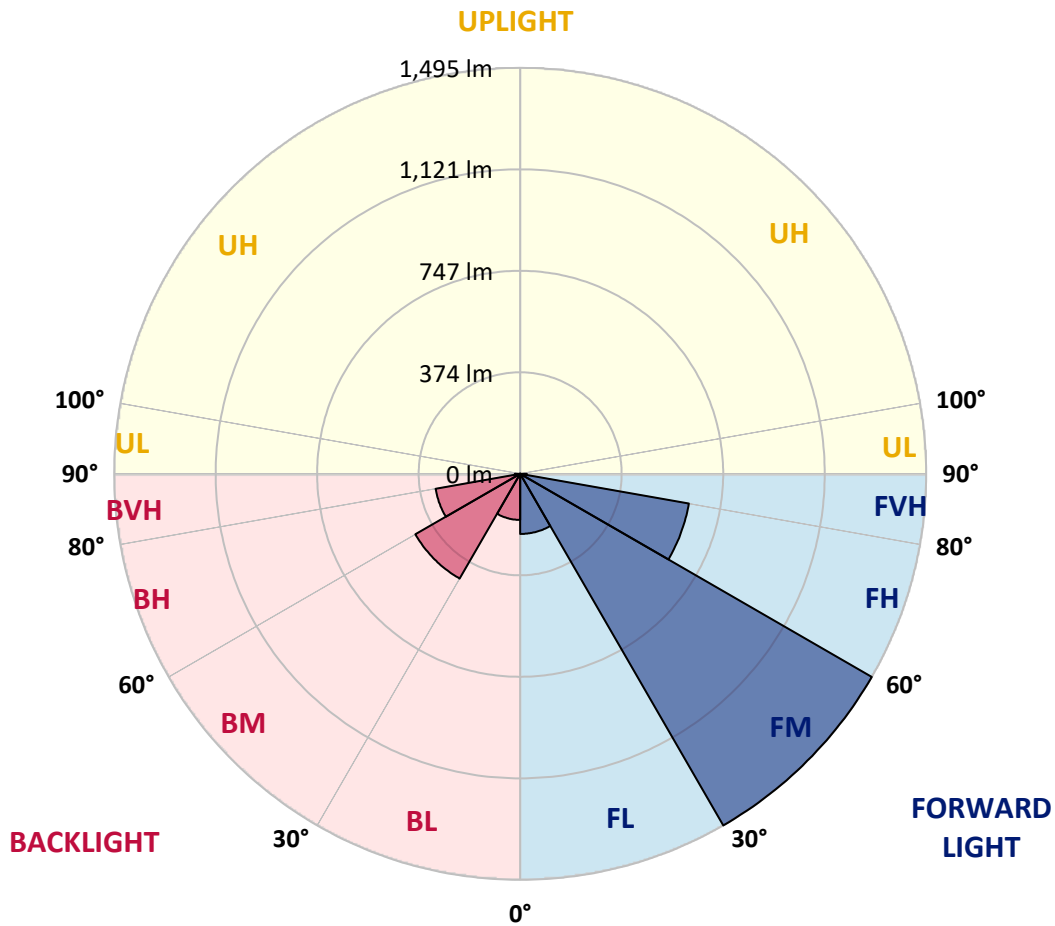
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.5	6.7			
FM (30°-60°)	1494.6	45.0			
FH (60°-80°)	630.5	19.0			G0/660
FVH (80°-90°)	24.5	0.7			G1/100
BL (0°-30°)	169.7	5.1	B1/500		
BM (30°-60°)	445.4	13.4	B1/1000		
BH (60°-80°)	316.2	9.5	B1/500		G1/500
BVH (80°-90°)	19.6	0.6			G1/100
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°	65°	66°	75°	85°
0°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	380.7	380.7	380.7	381.6	382.5	383.4	385.2	385.2	385.2	386.1	387.9
5°	373.4	372.5	373.4	374.3	376.1	377.9	381.6	383.4	383.4	387.0	390.7
7.5°	374.3	372.5	372.5	373.4	375.2	377.0	380.7	383.4	384.3	388.9	395.2
10°	383.4	380.7	380.7	381.6	381.6	383.4	386.1	389.8	390.7	395.2	401.6
12.5°	402.5	399.8	398.9	396.1	393.4	395.2	398.0	398.9	399.8	402.5	408.9
15°	442.6	438.0	430.8	425.3	418.0	413.4	412.5	413.4	413.4	414.4	418.0
17.5°	500.0	494.5	483.6	471.7	454.4	439.9	435.3	431.7	431.7	428.9	428.9
20°	570.1	561.9	549.1	531.8	506.3	479.9	464.4	456.3	453.5	449.0	442.6
22.5°	651.1	645.7	629.3	602.9	564.6	529.1	503.6	485.4	485.4	474.5	460.8
25°	746.8	736.7	717.6	686.7	634.7	583.7	549.1	522.7	520.0	502.7	480.8
27.5°	839.6	833.3	809.6	768.6	706.7	647.5	599.2	568.3	563.7	536.4	502.7
30°	952.6	945.3	909.8	852.4	785.9	718.5	662.1	622.0	617.4	580.1	532.7
32.5°	1092.8	1068.2	1024.5	958.9	873.3	797.8	733.1	690.3	684.8	642.0	585.6
35°	1263.1	1242.2	1166.6	1097.4	995.4	896.1	818.7	762.2	755.0	704.0	632.9
37.5°	1383.3	1373.3	1321.4	1266.8	1150.2	1016.3	921.6	843.3	836.0	768.6	676.6
40°	1458.9	1448.9	1434.3	1418.8	1354.2	1203.0	1045.5	938.9	927.1	863.3	764.1
42.5°	1498.1	1489.9	1492.6	1523.6	1541.8	1518.1	1222.1	1066.4	1058.2	980.8	870.6
45°	1475.3	1469.8	1496.2	1578.2	1667.5	1842.3	1448.9	1234.0	1212.1	1120.1	999.9
47.5°	1366.0	1349.6	1411.6	1550.9	1742.1	1997.1	1722.1	1440.7	1417.0	1285.0	1131.1
50°	1141.1	1136.5	1221.2	1397.9	1713.0	2058.1	2014.4	1684.8	1667.5	1462.6	1276.8
52.5°	931.6	929.8	995.4	1157.5	1527.2	2015.3	2226.6	1975.3	1923.4	1641.0	1435.2
55°	723.1	722.2	780.5	901.6	1218.5	1814.1	2326.8	2271.2	2233.0	1835.9	1598.2
57.5°	494.5	488.1	563.7	655.7	915.2	1437.1	2261.2	2505.3	2481.6	2042.7	1771.3
60°	275.0	284.1	367.9	481.7	654.8	968.1	1988.0	2606.4	2602.7	2207.5	1912.4
62.5°	194.9	198.5	234.0	342.4	430.8	554.6	1533.6	2501.6	2530.8	2298.6	1992.6
65°	162.1	163.9	181.2	253.2	315.1	320.6	956.2	2191.1	2229.3	2270.3	2009.9
67.5°	153.0	153.9	163.0	186.7	246.8	232.2	427.1	1672.9	1754.0	2042.7	1896.9
70°	139.3	140.2	153.9	164.8	199.4	183.0	219.5	1111.0	1220.3	1614.6	1635.6
72.5°	119.3	122.0	133.0	154.8	162.1	152.1	169.4	593.8	702.1	1080.1	1263.1
75°	102.9	104.7	112.9	131.1	152.1	121.1	143.9	270.5	316.9	633.8	799.6
77.5°	82.9	83.8	95.6	107.5	127.5	98.4	112.0	162.1	170.3	309.6	361.5
80°	62.8	62.8	71.0	85.6	94.7	94.7	82.0	112.9	117.5	147.5	143.0
82.5°	48.3	47.4	53.7	60.1	68.3	79.2	61.9	74.7	76.5	89.2	76.5
85°	31.9	31.9	35.5	41.0	45.5	43.7	48.3	43.7	45.5	55.6	41.9
87.5°	13.7	13.7	19.1	18.2	20.0	20.9	23.7	20.9	20.9	25.5	19.1
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°	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8	389.8
2.5°	388.9	389.8	391.6	392.5	395.2	396.1	396.1	398.0	398.0	399.8	399.8
5°	391.6	394.3	397.1	399.8	402.5	403.4	405.3	406.2	406.2	408.0	407.1
7.5°	397.1	399.8	405.3	408.0	411.6	413.4	412.5	413.4	412.5	413.4	413.4
10°	404.3	408.0	414.4	418.0	420.7	421.6	418.9	416.2	412.5	412.5	412.5
12.5°	412.5	415.3	423.5	426.2	428.0	425.3	418.0	412.5	409.8	410.7	409.8
15°	420.7	423.5	429.8	432.6	432.6	424.4	418.0	416.2	415.3	416.2	416.2
17.5°	428.9	431.7	437.1	437.1	434.4	428.0	421.6	415.3	410.7	408.0	408.0
20°	439.9	439.9	441.7	441.7	440.8	430.8	415.3	399.8	390.7	385.2	384.3
22.5°	454.4	450.8	447.1	447.1	450.8	424.4	394.3	370.6	356.1	354.3	350.6
25°	469.9	461.7	452.6	459.0	452.6	408.0	365.2	333.3	316.0	309.6	311.5
27.5°	486.3	473.6	459.9	478.1	443.5	376.1	324.2	288.7	272.3	267.7	267.7
30°	509.1	489.9	469.9	498.1	426.2	339.7	275.9	250.4	241.3	237.7	236.8
32.5°	552.8	523.6	494.5	516.4	407.1	292.3	243.2	227.7	216.7	213.1	215.8
35°	591.9	551.0	531.8	524.6	377.0	254.1	223.1	209.5	200.3	195.8	195.8
37.5°	627.5	588.3	573.7	524.6	337.9	230.4	210.4	199.4	187.6	184.0	184.0
40°	704.9	653.0	627.5	517.3	289.6	218.6	204.0	191.2	181.2	177.6	176.7
42.5°	811.4	741.3	683.0	500.9	248.6	213.1	200.3	185.8	177.6	174.9	173.9
45°	924.3	862.4	735.8	471.7	222.2	207.6	199.4	184.0	173.9	171.2	170.3
47.5°	1060.9	997.2	796.8	427.1	204.0	204.0	198.5	181.2	172.1	169.4	169.4
50°	1212.1	1159.3	874.3	376.1	190.3	201.3	196.7	181.2	171.2	168.5	167.6
52.5°	1366.9	1342.3	955.3	326.0	176.7	197.6	195.8	181.2	169.4	166.7	166.7
55°	1563.6	1543.6	1049.1	288.7	165.7	190.3	195.8	179.4	166.7	164.8	164.8
57.5°	1756.7	1749.4	1122.0	255.9	157.5	181.2	193.1	176.7	163.9	163.0	163.0
60°	1921.5	1914.2	1152.9	214.9	149.4	172.1	187.6	172.1	159.4	160.3	160.3
62.5°	2023.5	1981.6	1130.2	177.6	141.2	163.9	181.2	166.7	154.8	157.5	156.6
65°	2041.7	1944.3	1041.8	148.4	132.0	154.8	173.9	160.3	148.4	154.8	153.9
67.5°	1907.9	1745.8	876.1	129.3	122.9	144.8	165.7	151.2	141.2	150.3	147.5
70°	1618.3	1417.9	648.4	114.7	113.8	133.0	154.8	140.2	131.1	135.7	132.0
72.5°	1204.8	1023.6	419.8	103.8	103.8	119.3	139.3	126.6	117.5	118.4	114.7
75°	751.3	629.3	238.6	93.8	93.8	105.6	123.9	111.1	104.7	101.1	105.6
77.5°	341.5	276.8	125.7	83.8	84.7	90.2	106.5	94.7	87.4	82.0	84.7
80°	126.6	112.9	82.0	71.9	73.8	74.7	85.6	75.6	69.2	65.6	63.7
82.5°	65.6	61.0	55.6	57.4	60.1	57.4	66.5	56.5	49.2	46.4	39.2
85°	32.8	31.9	33.7	38.2	41.9	35.5	40.1	36.4	30.1	21.9	21.9
87.5°	12.7	13.7	12.7	17.3	19.1	16.4	18.2	12.7	9.1	4.6	3.6
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)