

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: P572971

Luminaire Tested: **ARCH-S-PA2-20-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572971
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-PA2-20-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 3051 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

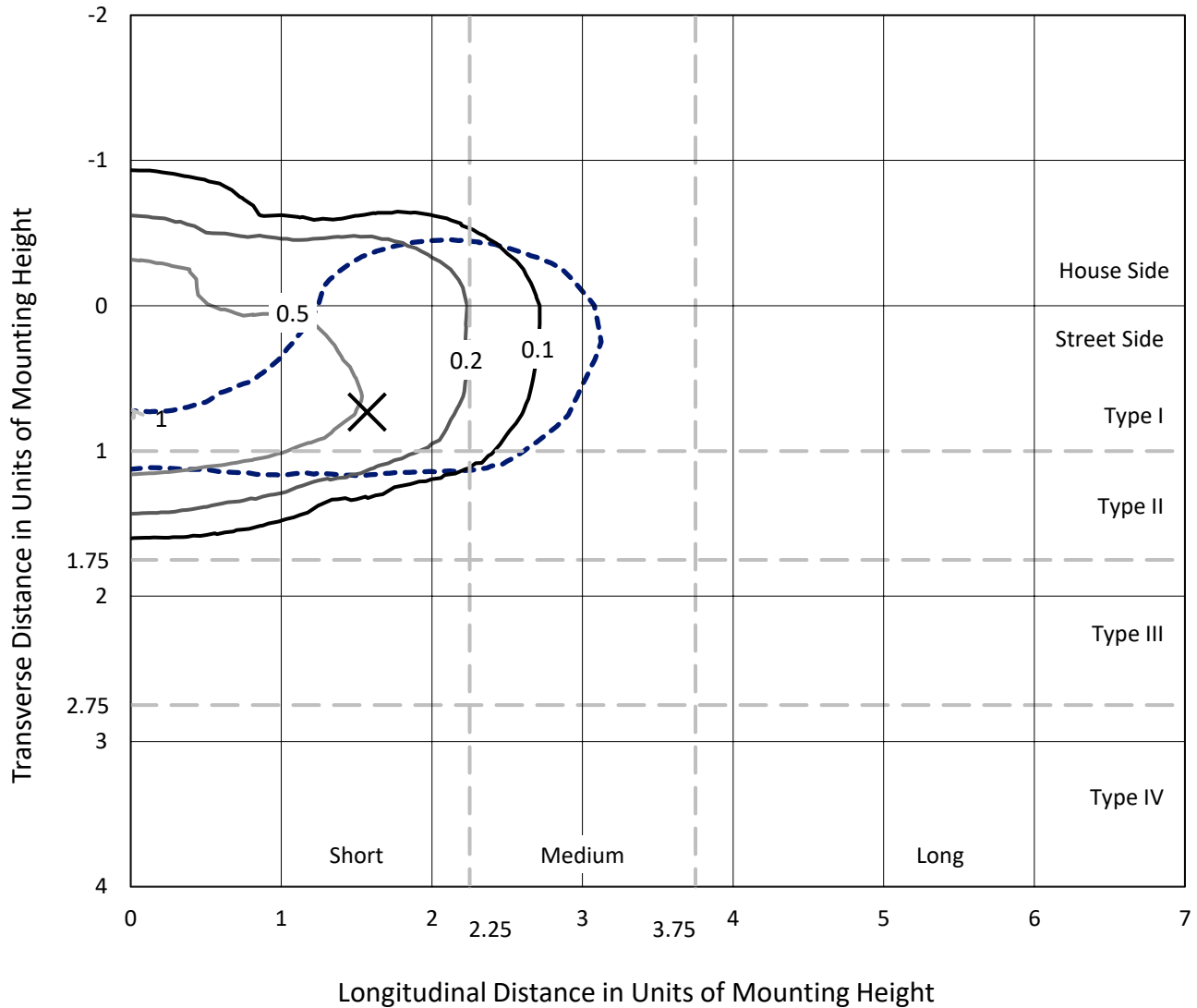
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

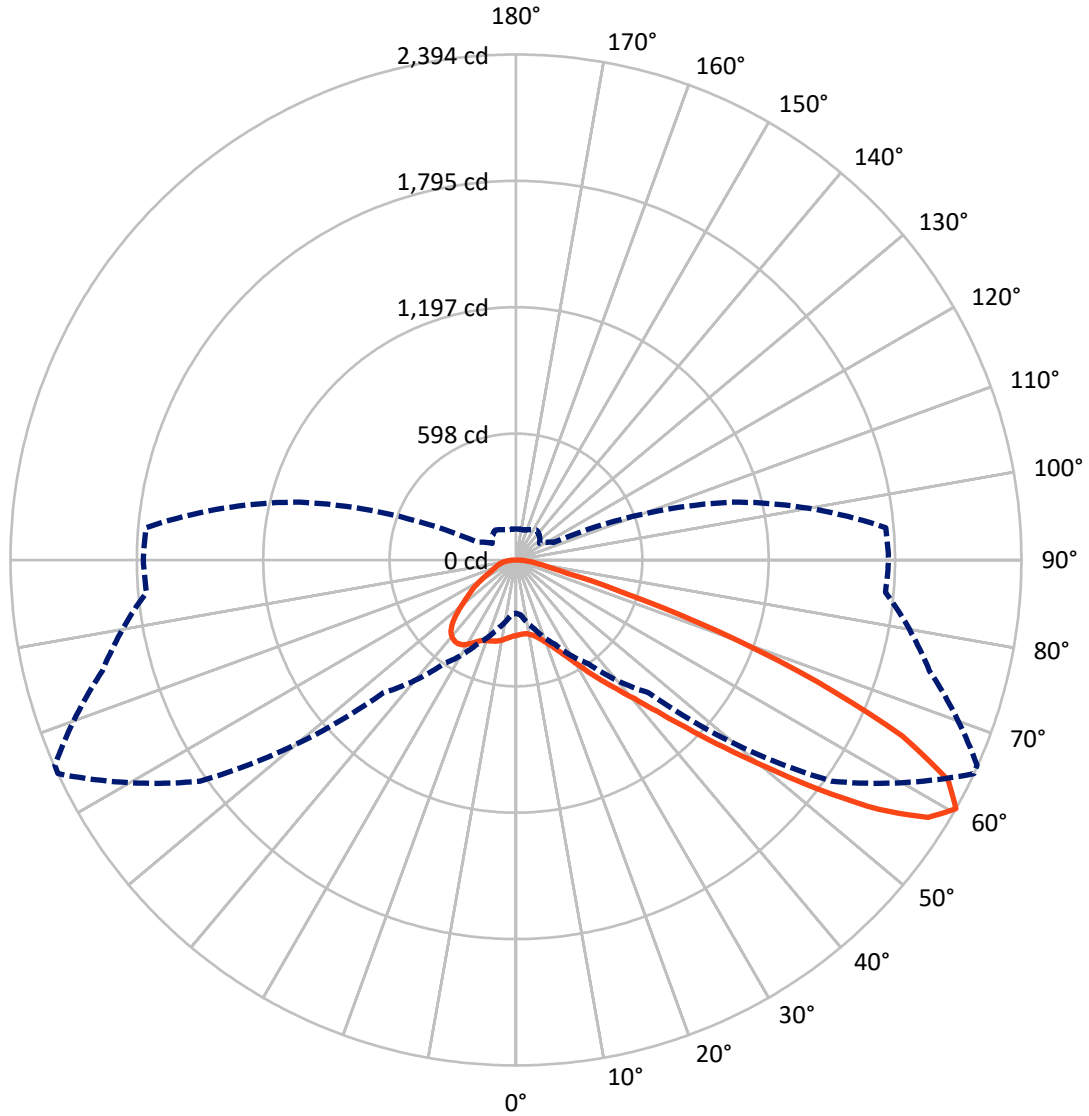
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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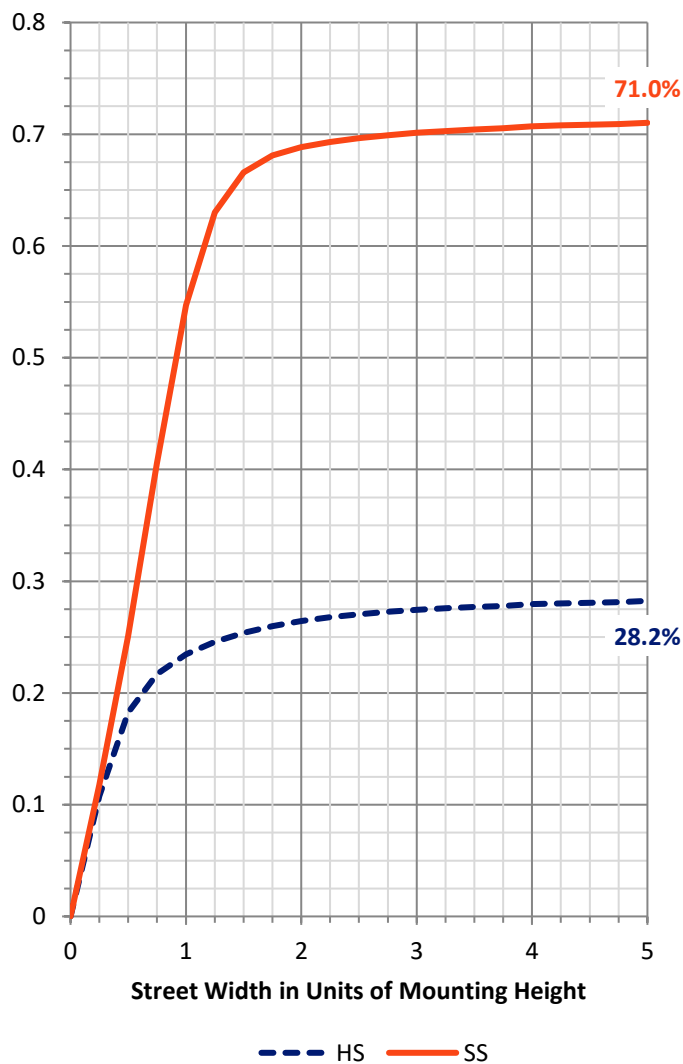
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.4	0.0	873.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2177.6	0.0	2177.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	3051.0	0.0	3051.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	1.1
10°-20°	111.3	3.6
20°-30°	213.4	7.0
30°-40°	370.6	12.1
40°-50°	628.5	20.6
50°-60°	782.6	25.7
60°-70°	630.7	20.7
70°-80°	238.8	7.8
80°-90°	40.5	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°	3051.0	100.0
0°-180°	3051.0	100.0

Coefficient of Utilization



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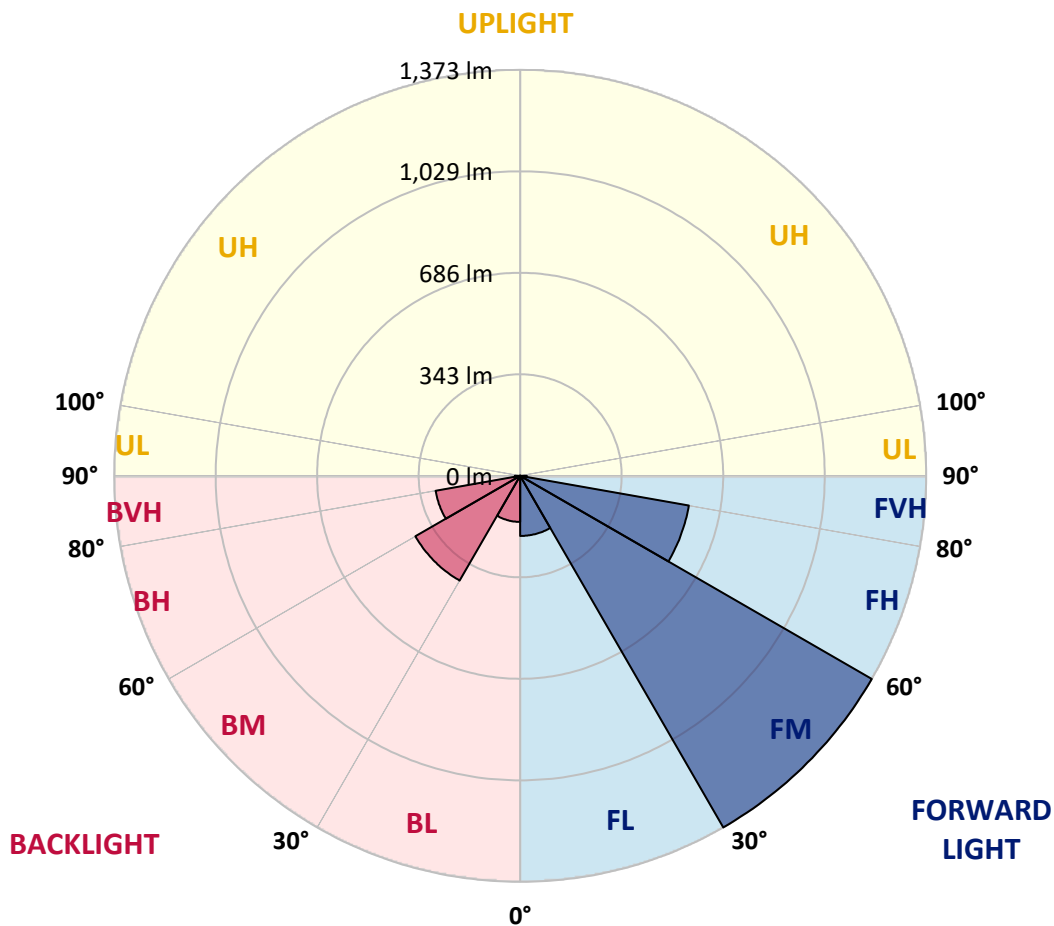
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.4	6.7			
FM (30°-60°)	1372.7	45.0			
FH (60°-80°)	579.1	19.0			G0/660
FVH (80°-90°)	22.5	0.7			G1/100
BL (0°-30°)	155.9	5.1	B1/500		
BM (30°-60°)	409.1	13.4	B1/1000		
BH (60°-80°)	290.4	9.5	B1/500		G1/500
BVH (80°-90°)	18.0	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°	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0
2.5°	349.6	349.6	349.6	350.4	351.3	352.1	353.8	353.8	353.8	354.6	356.3
5°	342.9	342.1	342.9	343.8	345.4	347.1	350.4	352.1	352.1	355.5	358.8
7.5°	343.8	342.1	342.1	342.9	344.6	346.3	349.6	352.1	353.0	357.1	363.0
10°	352.1	349.6	349.6	350.4	350.4	352.1	354.6	358.0	358.8	363.0	368.8
12.5°	369.7	367.2	366.3	363.8	361.3	363.0	365.5	366.3	367.2	369.7	375.5
15°	406.5	402.3	395.6	390.6	383.9	379.7	378.9	379.7	379.7	380.6	383.9
17.5°	459.2	454.2	444.1	433.2	417.4	404.0	399.8	396.4	396.4	393.9	393.9
20°	523.6	516.1	504.3	488.5	465.0	440.8	426.6	419.0	416.5	412.3	406.5
22.5°	598.0	593.0	577.9	553.7	518.6	485.9	462.5	445.8	445.8	435.8	423.2
25°	685.8	676.6	659.1	630.6	583.0	536.1	504.3	480.1	477.6	461.7	441.6
27.5°	771.1	765.3	743.5	705.9	649.0	594.7	550.3	521.9	517.7	492.6	461.7
30°	874.9	868.2	835.6	782.9	721.8	659.9	608.1	571.3	567.1	532.8	489.3
32.5°	1003.7	981.1	940.9	880.7	802.1	732.7	673.3	634.0	629.0	589.7	537.8
35°	1160.1	1140.8	1071.4	1007.8	914.2	823.0	751.9	700.1	693.4	646.5	581.3
37.5°	1270.5	1261.3	1213.6	1163.4	1056.4	933.4	846.4	774.5	767.8	705.9	621.4
40°	1339.9	1330.7	1317.3	1303.1	1243.7	1104.9	960.2	862.3	851.4	792.9	701.7
42.5°	1375.9	1368.3	1370.8	1399.3	1416.0	1394.3	1122.4	979.4	971.9	900.8	799.6
45°	1354.9	1349.9	1374.2	1449.5	1531.4	1692.0	1330.7	1133.3	1113.2	1028.8	918.4
47.5°	1254.6	1239.5	1296.4	1424.4	1600.0	1834.2	1581.6	1323.2	1301.4	1180.1	1038.8
50°	1048.0	1043.8	1121.6	1283.9	1573.2	1890.2	1850.1	1547.3	1531.4	1343.2	1172.6
52.5°	855.6	854.0	914.2	1063.0	1402.6	1850.9	2045.0	1814.1	1766.5	1507.2	1318.1
55°	664.1	663.3	716.8	828.0	1119.1	1666.1	2137.0	2086.0	2050.8	1686.2	1467.9
57.5°	454.2	448.3	517.7	602.2	840.6	1319.8	2076.8	2300.9	2279.2	1876.0	1626.8
60°	252.6	261.0	337.9	442.4	601.4	889.1	1825.8	2393.7	2390.4	2027.4	1756.4
62.5°	179.0	182.3	215.0	314.5	395.6	509.4	1408.5	2297.6	2324.3	2111.0	1830.0
65°	148.9	150.5	166.4	232.5	289.4	294.4	878.2	2012.3	2047.5	2085.1	1845.9
67.5°	140.5	141.3	149.7	171.5	226.7	213.3	392.3	1536.4	1610.9	1876.0	1742.2
70°	128.0	128.8	141.3	151.4	183.2	168.1	201.6	1020.4	1120.8	1482.9	1502.2
72.5°	109.6	112.1	122.1	142.2	148.9	139.7	155.6	545.3	644.9	992.0	1160.1
75°	94.5	96.2	103.7	120.4	139.7	111.2	132.1	248.4	291.1	582.1	734.3
77.5°	76.1	76.9	87.8	98.7	117.1	90.3	102.9	148.9	156.4	284.4	332.0
80°	57.7	57.7	65.2	78.6	87.0	87.0	75.3	103.7	107.9	135.5	131.3
82.5°	44.3	43.5	49.3	55.2	62.7	72.8	56.9	68.6	70.3	82.0	70.3
85°	29.3	29.3	32.6	37.6	41.8	40.1	44.3	40.1	41.8	51.0	38.5
87.5°	12.5	12.5	17.6	16.7	18.4	19.2	21.7	19.2	19.2	23.4	17.6
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°	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0	358.0
2.5°	357.1	358.0	359.6	360.5	363.0	363.8	363.8	365.5	365.5	367.2	367.2
5°	359.6	362.2	364.7	367.2	369.7	370.5	372.2	373.0	373.0	374.7	373.9
7.5°	364.7	367.2	372.2	374.7	378.0	379.7	378.9	379.7	378.9	379.7	379.7
10°	371.4	374.7	380.6	383.9	386.4	387.2	384.7	382.2	378.9	378.9	378.9
12.5°	378.9	381.4	388.9	391.4	393.1	390.6	383.9	378.9	376.4	377.2	376.4
15°	386.4	388.9	394.8	397.3	397.3	389.8	383.9	382.2	381.4	382.2	382.2
17.5°	393.9	396.4	401.5	401.5	399.0	393.1	387.2	381.4	377.2	374.7	374.7
20°	404.0	404.0	405.6	405.6	404.8	395.6	381.4	367.2	358.8	353.8	353.0
22.5°	417.4	414.0	410.7	410.7	414.0	389.8	362.2	340.4	327.0	325.4	322.0
25°	431.6	424.0	415.7	421.5	415.7	374.7	335.4	306.1	290.2	284.4	286.0
27.5°	446.6	434.9	422.4	439.1	407.3	345.4	297.8	265.1	250.1	245.9	245.9
30°	467.5	450.0	431.6	457.5	391.4	312.0	253.4	230.0	221.6	218.3	217.5
32.5°	507.7	480.9	454.2	474.2	373.9	268.5	223.3	209.1	199.1	195.7	198.2
35°	543.7	506.0	488.5	481.8	346.3	233.4	204.9	192.4	184.0	179.8	179.8
37.5°	576.3	540.3	526.9	481.8	310.3	211.6	193.2	183.2	172.3	169.0	169.0
40°	647.4	599.7	576.3	475.1	266.0	200.7	187.4	175.6	166.4	163.1	162.3
42.5°	745.2	680.8	627.3	460.0	228.3	195.7	184.0	170.6	163.1	160.6	159.8
45°	848.9	792.1	675.8	433.2	204.1	190.7	183.2	169.0	159.8	157.2	156.4
47.5°	974.4	915.8	731.8	392.3	187.4	187.4	182.3	166.4	158.1	155.6	155.6
50°	1113.2	1064.7	802.9	345.4	174.8	184.8	180.7	166.4	157.2	154.7	153.9
52.5°	1255.4	1232.8	877.4	299.4	162.3	181.5	179.8	166.4	155.6	153.1	153.1
55°	1436.1	1417.7	963.5	265.1	152.2	174.8	179.8	164.8	153.1	151.4	151.4
57.5°	1613.4	1606.7	1030.4	235.0	144.7	166.4	177.3	162.3	150.5	149.7	149.7
60°	1764.8	1758.1	1058.9	197.4	137.2	158.1	172.3	158.1	146.4	147.2	147.2
62.5°	1858.5	1820.0	1038.0	163.1	129.6	150.5	166.4	153.1	142.2	144.7	143.9
65°	1875.2	1785.7	956.8	136.3	121.3	142.2	159.8	147.2	136.3	142.2	141.3
67.5°	1752.2	1603.4	804.6	118.8	112.9	133.0	152.2	138.8	129.6	138.0	135.5
70°	1486.3	1302.3	595.5	105.4	104.5	122.1	142.2	128.8	120.4	124.6	121.3
72.5°	1106.5	940.1	385.6	95.3	95.3	109.6	128.0	116.3	107.9	108.7	105.4
75°	690.0	577.9	219.1	86.1	86.1	97.0	113.7	102.0	96.2	92.8	97.0
77.5°	313.6	254.3	115.4	76.9	77.8	82.8	97.9	87.0	80.3	75.3	77.8
80°	116.3	103.7	75.3	66.1	67.7	68.6	78.6	69.4	63.6	60.2	58.5
82.5°	60.2	56.0	51.0	52.7	55.2	52.7	61.1	51.9	45.2	42.7	36.0
85°	30.1	29.3	30.9	35.1	38.5	32.6	36.8	33.5	27.6	20.1	20.1
87.5°	11.7	12.5	11.7	15.9	17.6	15.1	16.7	11.7	8.4	4.2	3.3
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)