

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: P573214

Luminaire Tested: **ARCH-S-PA2-50-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573214
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-PA2-50-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6621 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

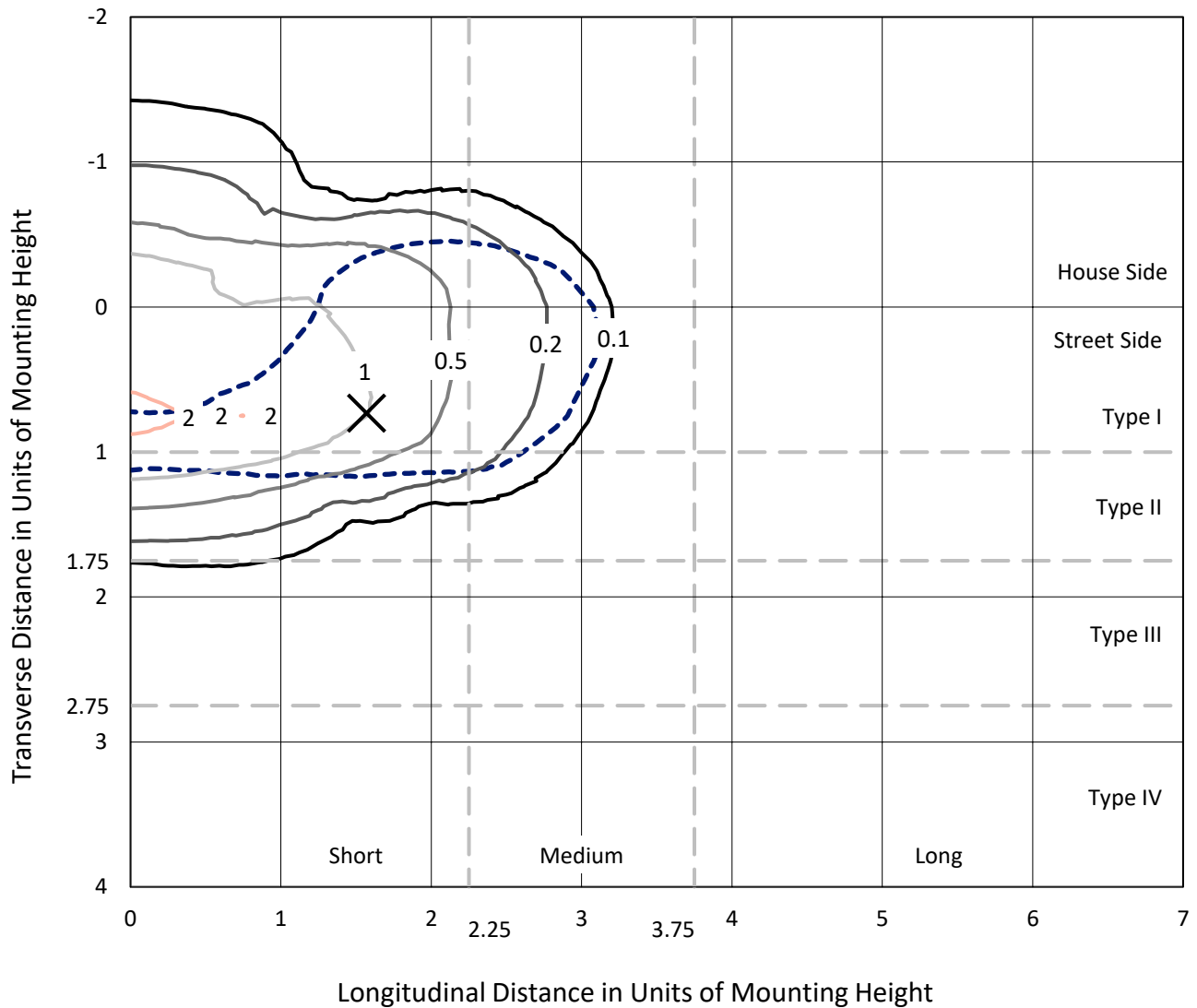
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

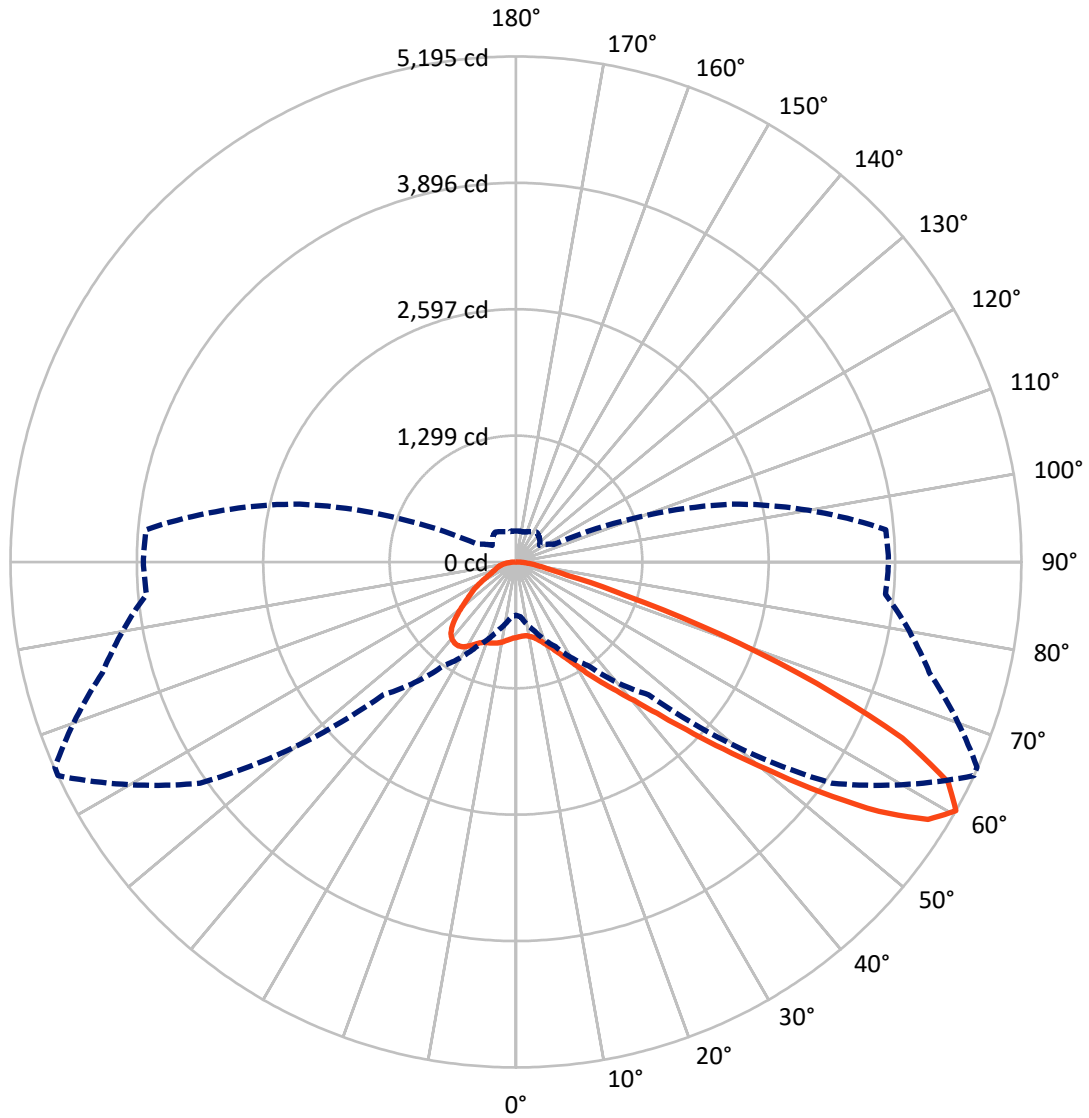
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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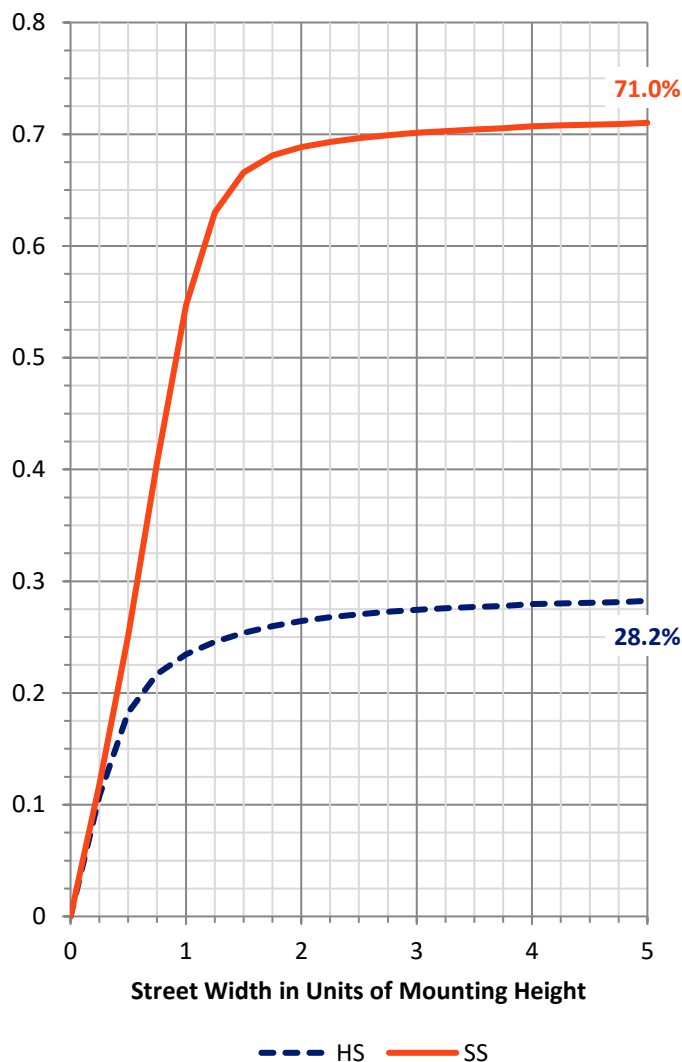
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.4	0.0	1895.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	4725.6	0.0	4725.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	6621.0	0.0	6621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.1	1.1
10°-20°	241.6	3.6
20°-30°	463.1	7.0
30°-40°	804.2	12.1
40°-50°	1364.0	20.6
50°-60°	1698.4	25.7
60°-70°	1368.6	20.7
70°-80°	518.2	7.8
80°-90°	87.9	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°	6621.0	100.0
0°-180°	6621.0	100.0

Coefficient of Utilization



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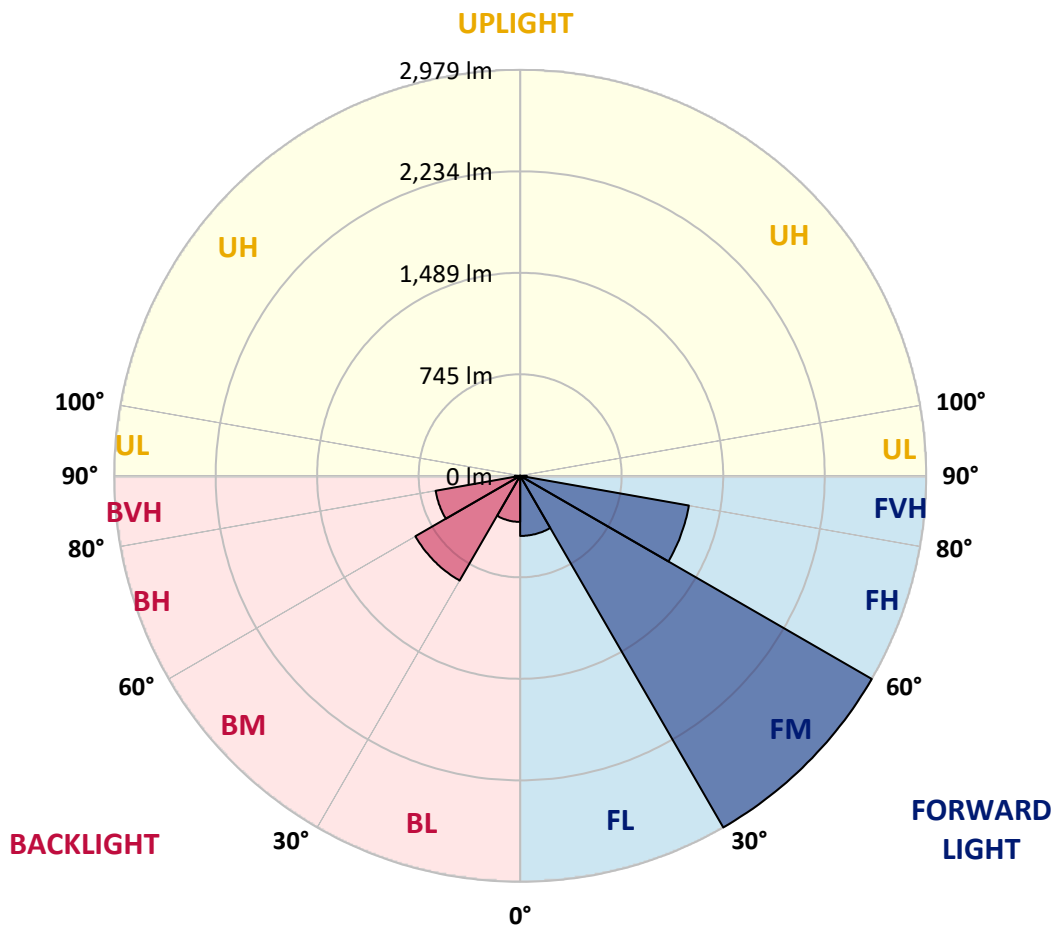
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.4	6.7			
FM (30°-60°)	2978.8	45.0			
FH (60°-80°)	1256.6	19.0			G1/1800
FVH (80°-90°)	48.8	0.7			G1/100
BL (0°-30°)	338.3	5.1	B1/500		
BM (30°-60°)	887.8	13.4	B1/1000		
BH (60°-80°)	630.2	9.5	B2/1000		G2/1000
BVH (80°-90°)	39.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8
2.5°	758.7	758.7	758.7	760.5	762.3	764.1	767.8	767.8	767.8	769.6	773.2
5°	744.2	742.4	744.2	746.0	749.6	753.2	760.5	764.1	764.1	771.4	778.7
7.5°	746.0	742.4	742.4	744.2	747.8	751.4	758.7	764.1	766.0	775.0	787.7
10°	764.1	758.7	758.7	760.5	760.5	764.1	769.6	776.8	778.7	787.7	800.4
12.5°	802.3	796.8	795.0	789.5	784.1	787.7	793.2	795.0	796.8	802.3	815.0
15°	882.1	873.0	858.5	847.6	833.1	824.0	822.2	824.0	824.0	825.8	833.1
17.5°	996.5	985.6	963.8	940.2	905.7	876.7	867.6	860.3	860.3	854.9	854.9
20°	1136.2	1119.9	1094.5	1060.0	1009.2	956.5	925.7	909.3	903.9	894.8	882.1
22.5°	1297.8	1286.9	1254.2	1201.6	1125.3	1054.5	1003.7	967.4	967.4	945.6	918.4
25°	1488.3	1468.4	1430.3	1368.5	1265.1	1163.4	1094.5	1041.8	1036.4	1001.9	958.3
27.5°	1673.5	1660.8	1613.6	1531.9	1408.5	1290.5	1194.3	1132.6	1123.5	1069.1	1001.9
30°	1898.5	1884.0	1813.2	1698.9	1566.4	1432.1	1319.5	1239.7	1230.6	1156.2	1061.8
32.5°	2178.1	2129.1	2041.9	1911.3	1740.6	1590.0	1461.1	1375.8	1364.9	1279.6	1167.1
35°	2517.5	2475.7	2325.1	2187.1	1983.9	1786.0	1631.7	1519.2	1504.7	1403.0	1261.5
37.5°	2757.1	2737.1	2633.6	2524.7	2292.4	2025.6	1836.8	1680.7	1666.2	1531.9	1348.6
40°	2907.7	2887.7	2858.7	2827.9	2699.0	2397.7	2083.7	1871.3	1847.7	1720.7	1522.8
42.5°	2985.8	2969.4	2974.9	3036.6	3072.9	3025.7	2435.8	2125.4	2109.1	1954.8	1735.2
45°	2940.4	2929.5	2982.1	3145.5	3323.4	3671.9	2887.7	2459.4	2415.8	2232.5	1992.9
47.5°	2722.6	2689.9	2813.3	3091.0	3472.2	3980.4	3432.3	2871.4	2824.2	2561.0	2254.3
50°	2274.3	2265.2	2434.0	2786.1	3414.1	4102.0	4014.9	3357.8	3323.4	2915.0	2544.7
52.5°	1856.8	1853.2	1983.9	2306.9	3043.8	4016.7	4437.8	3936.8	3833.4	3270.7	2860.5
55°	1441.2	1439.3	1555.5	1796.9	2428.5	3615.6	4637.5	4526.7	4450.5	3659.1	3185.4
57.5°	985.6	972.9	1123.5	1306.8	1824.1	2864.2	4506.8	4993.2	4946.0	4071.2	3530.3
60°	548.1	566.3	733.3	960.2	1305.0	1929.4	3962.3	5194.7	5187.4	4399.7	3811.6
62.5°	388.4	395.7	466.5	682.5	858.5	1105.4	3056.5	4985.9	5044.0	4581.2	3971.3
65°	323.1	326.7	361.2	504.6	628.0	638.9	1905.8	4367.0	4443.2	4524.9	4005.8
67.5°	304.9	306.7	324.9	372.1	491.9	462.8	851.3	3334.3	3495.8	4071.2	3780.8
70°	277.7	279.5	306.7	328.5	397.5	364.8	437.4	2214.4	2432.2	3218.1	3259.8
72.5°	237.8	243.2	265.0	308.6	323.1	303.1	337.6	1183.4	1399.4	2152.7	2517.5
75°	205.1	208.7	225.1	261.4	303.1	241.4	286.8	539.1	631.6	1263.3	1593.6
77.5°	165.2	167.0	190.6	214.2	254.1	196.0	223.3	323.1	339.4	617.1	720.6
80°	125.2	125.2	141.6	170.6	188.8	188.8	163.4	225.1	234.1	294.0	285.0
82.5°	96.2	94.4	107.1	119.8	136.1	157.9	123.4	148.8	152.5	177.9	152.5
85°	63.5	63.5	70.8	81.7	90.8	87.1	96.2	87.1	90.8	110.7	83.5
87.5°	27.2	27.2	38.1	36.3	39.9	41.7	47.2	41.7	41.7	50.8	38.1
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°	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8	776.8
2.5°	775.0	776.8	780.5	782.3	787.7	789.5	789.5	793.2	793.2	796.8	796.8
5°	780.5	785.9	791.4	796.8	802.3	804.1	807.7	809.5	809.5	813.1	811.3
7.5°	791.4	796.8	807.7	813.1	820.4	824.0	822.2	824.0	822.2	824.0	824.0
10°	805.9	813.1	825.8	833.1	838.6	840.4	834.9	829.5	822.2	822.2	822.2
12.5°	822.2	827.7	844.0	849.4	853.1	847.6	833.1	822.2	816.8	818.6	816.8
15°	838.6	844.0	856.7	862.1	862.1	845.8	833.1	829.5	827.7	829.5	829.5
17.5°	854.9	860.3	871.2	871.2	865.8	853.1	840.4	827.7	818.6	813.1	813.1
20°	876.7	876.7	880.3	880.3	878.5	858.5	827.7	796.8	778.7	767.8	766.0
22.5°	905.7	898.5	891.2	891.2	898.5	845.8	785.9	738.7	709.7	706.1	698.8
25°	936.6	920.2	902.1	914.8	902.1	813.1	727.8	664.3	629.8	617.1	620.7
27.5°	969.2	943.8	916.6	952.9	883.9	749.6	646.2	575.4	542.7	533.6	533.6
30°	1014.6	976.5	936.6	992.8	849.4	677.0	550.0	499.1	481.0	473.7	471.9
32.5°	1101.7	1043.7	985.6	1029.1	811.3	582.6	484.6	453.8	432.0	424.7	430.2
35°	1179.8	1098.1	1060.0	1045.5	751.4	506.4	444.7	417.5	399.3	390.2	390.2
37.5°	1250.6	1172.5	1143.5	1045.5	673.4	459.2	419.3	397.5	373.9	366.6	366.6
40°	1404.9	1301.4	1250.6	1030.9	577.2	435.6	406.6	381.2	361.2	353.9	352.1
42.5°	1617.2	1477.5	1361.3	998.3	495.5	424.7	399.3	370.3	353.9	348.5	346.7
45°	1842.3	1718.9	1466.6	940.2	442.9	413.8	397.5	366.6	346.7	341.2	339.4
47.5°	2114.5	1987.5	1588.2	851.3	406.6	406.6	395.7	361.2	343.0	337.6	337.6
50°	2415.8	2310.6	1742.5	749.6	379.3	401.1	392.1	361.2	341.2	335.8	334.0
52.5°	2724.4	2675.4	1904.0	649.8	352.1	393.9	390.2	361.2	337.6	332.2	332.2
55°	3116.4	3076.5	2090.9	575.4	330.3	379.3	390.2	357.6	332.2	328.5	328.5
57.5°	3501.2	3486.7	2236.1	510.0	314.0	361.2	384.8	352.1	326.7	324.9	324.9
60°	3829.8	3815.2	2297.9	428.4	297.7	343.0	373.9	343.0	317.6	319.4	319.4
62.5°	4033.0	3949.6	2252.5	353.9	281.3	326.7	361.2	332.2	308.6	314.0	312.2
65°	4069.3	3875.1	2076.4	295.9	263.2	308.6	346.7	319.4	295.9	308.6	306.7
67.5°	3802.5	3479.5	1746.1	257.7	245.0	288.6	330.3	301.3	281.3	299.5	294.0
70°	3225.3	2826.0	1292.3	228.7	226.9	265.0	308.6	279.5	261.4	270.4	263.2
72.5°	2401.3	2040.1	836.7	206.9	206.9	237.8	277.7	252.3	234.1	236.0	228.7
75°	1497.4	1254.2	475.5	187.0	187.0	210.5	246.8	221.4	208.7	201.5	210.5
77.5°	680.6	551.8	250.5	167.0	168.8	179.7	212.4	188.8	174.2	163.4	168.8
80°	252.3	225.1	163.4	143.4	147.0	148.8	170.6	150.6	137.9	130.7	127.1
82.5°	130.7	121.6	110.7	114.3	119.8	114.3	132.5	112.5	98.0	92.6	78.0
85°	65.3	63.5	67.2	76.2	83.5	70.8	79.9	72.6	59.9	43.6	43.6
87.5°	25.4	27.2	25.4	34.5	38.1	32.7	36.3	25.4	18.2	9.1	7.3
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)