

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: P573212

Luminaire Tested: **ARCH-S-PA2-50-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
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-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6727 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

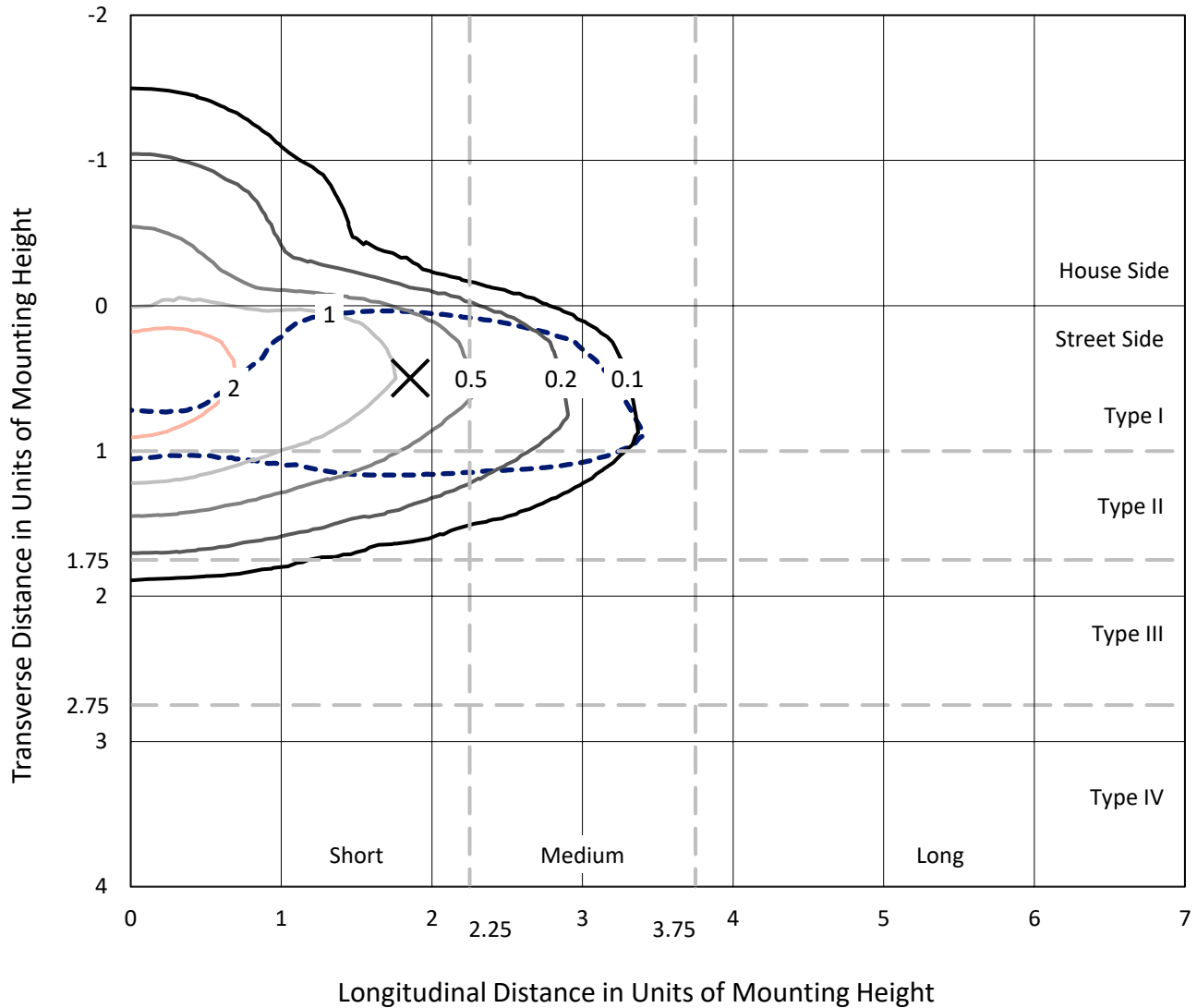
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

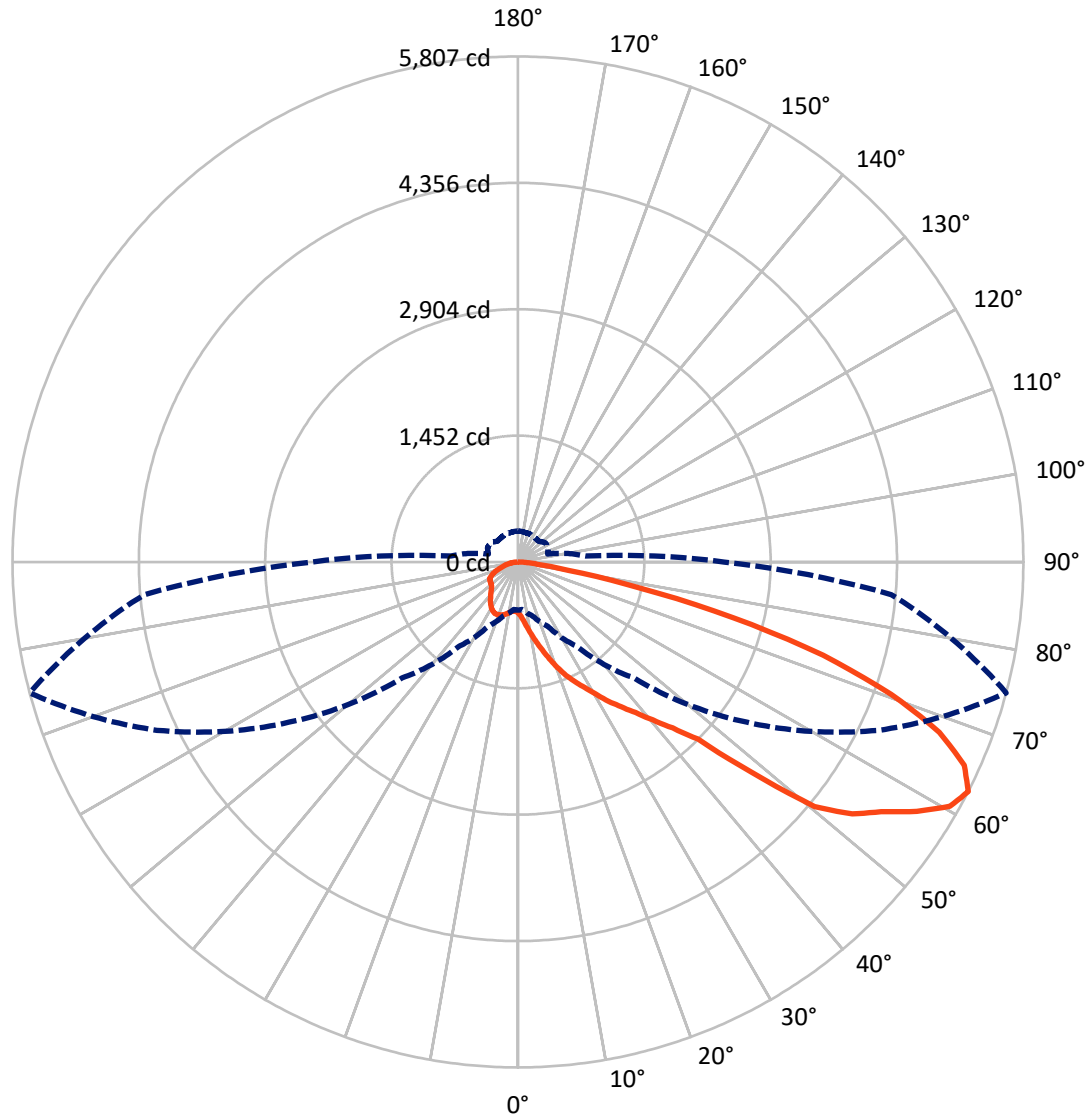
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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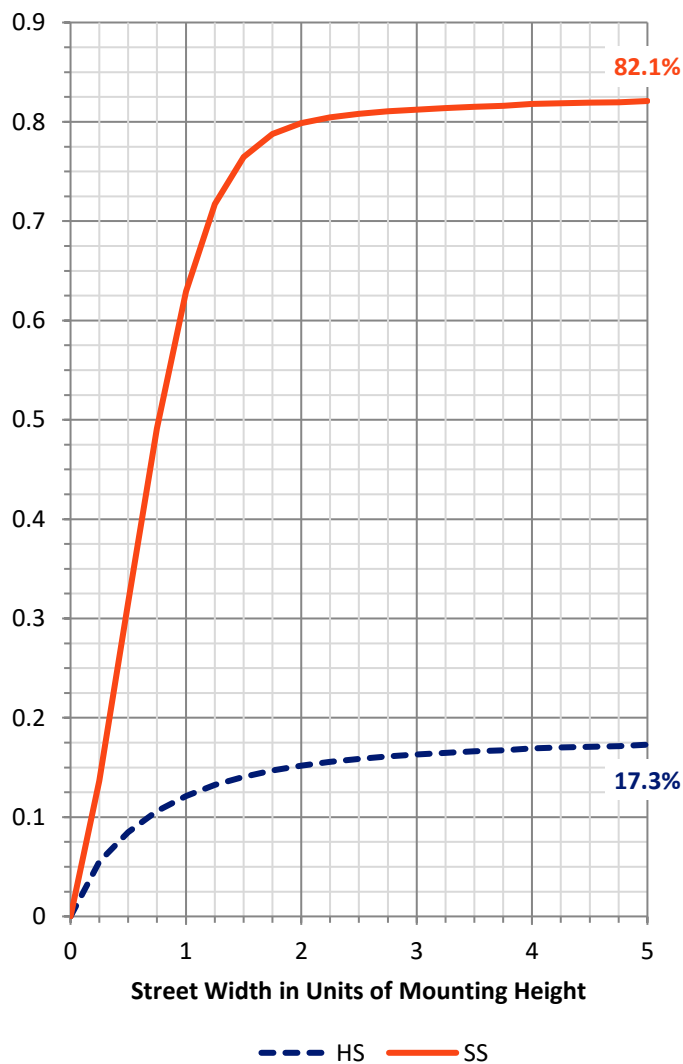
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.5	0.0	1186.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	5540.5	0.0	5540.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	6727.0	0.0	6727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	278.4	4.1
20°-30°	550.7	8.2
30°-40°	917.9	13.6
40°-50°	1354.5	20.1
50°-60°	1628.3	24.2
60°-70°	1265.5	18.8
70°-80°	559.8	8.3
80°-90°	101.4	1.5
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°	6727.0	100.0
0°-180°	6727.0	100.0

Coefficient of Utilization



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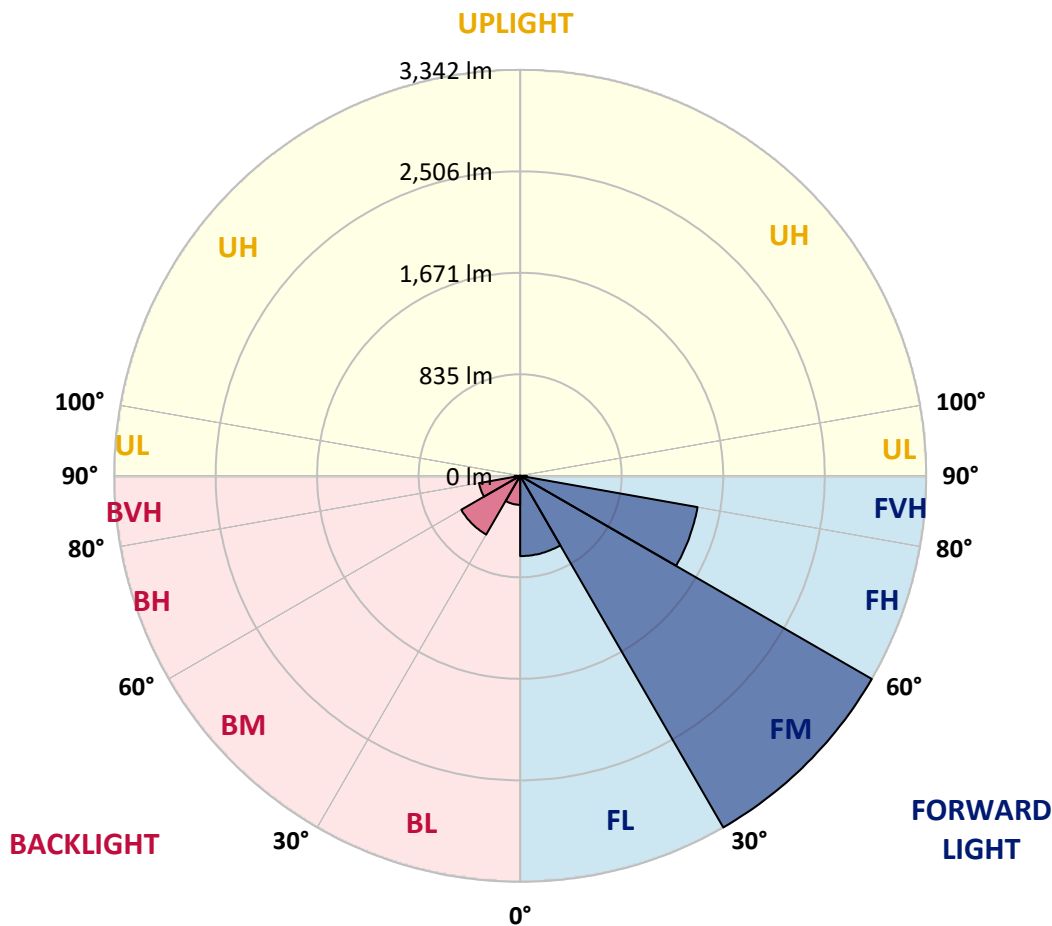
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.8	9.8			
FM (30°-60°)	3342.0	49.7			
FH (60°-80°)	1482.1	22.0			G1/1800
FVH (80°-90°)	55.7	0.8			G1/100
BL (0°-30°)	238.7	3.5	B1/500		
BM (30°-60°)	558.8	8.3	B1/1000		
BH (60°-80°)	343.3	5.1	B1/500		G1/500
BVH (80°-90°)	45.6	0.7			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°	75°	85°	90°
0°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	749.8	728.0	728.0	704.4	706.2	686.2	664.4	642.6	619.0	600.9	591.8
5°	980.3	964.0	958.5	931.3	887.7	838.7	786.1	731.6	675.3	631.8	610.0
7.5°	1196.3	1183.6	1176.4	1145.5	1085.6	1033.0	949.4	849.6	753.4	671.7	639.0
10°	1356.1	1347.0	1332.5	1318.0	1274.4	1229.0	1125.5	983.9	842.3	720.7	671.7
12.5°	1472.3	1459.6	1459.6	1457.8	1428.7	1387.0	1290.7	1138.2	945.8	775.2	708.0
15°	1550.3	1548.5	1554.0	1564.9	1557.6	1530.4	1434.2	1279.8	1051.1	836.9	749.8
17.5°	1608.4	1601.2	1612.1	1641.1	1662.9	1652.0	1572.1	1416.0	1167.3	904.1	795.1
20°	1672.0	1657.5	1672.0	1708.3	1735.5	1751.9	1713.7	1546.7	1292.6	976.7	838.7
22.5°	1793.6	1791.8	1784.5	1795.4	1813.6	1842.6	1820.8	1679.2	1414.2	1049.3	889.5
25°	2011.5	1991.5	1971.5	1947.9	1927.9	1937.0	1918.9	1802.7	1524.9	1129.2	933.1
27.5°	2254.7	2232.9	2196.6	2138.5	2084.1	2051.4	2013.3	1909.8	1632.0	1201.8	974.9
30°	2478.0	2470.7	2416.3	2352.7	2258.3	2198.4	2125.8	2033.2	1760.9	1281.7	1018.4
32.5°	2686.8	2672.3	2617.8	2550.6	2439.9	2372.7	2272.9	2167.6	1908.0	1379.7	1063.8
35°	2866.5	2852.0	2788.4	2703.1	2606.9	2548.8	2434.4	2287.4	2042.3	1465.0	1101.9
37.5°	3002.7	2986.3	2926.4	2842.9	2757.6	2730.3	2632.3	2439.9	2194.8	1572.1	1149.1
40°	3078.9	3058.9	3019.0	2960.9	2890.1	2877.4	2835.6	2628.7	2387.2	1702.8	1218.1
42.5°	3088.0	3069.8	3048.0	3042.6	3037.1	3048.0	3068.0	2842.9	2606.9	1877.1	1319.8
45°	3008.1	2997.2	2999.0	3060.7	3146.1	3245.9	3365.7	3158.8	2902.8	2209.3	1548.5
47.5°	2837.5	2832.0	2871.9	2975.4	3166.0	3393.0	3732.4	3699.8	3603.5	2744.9	1842.6
50°	2561.5	2552.4	2637.8	2801.1	3073.5	3442.0	3979.3	4337.0	4416.8	3160.6	2035.1
52.5°	2165.8	2176.7	2309.2	2532.5	2861.1	3389.3	4081.0	4598.4	4809.0	3467.4	2182.1
55°	1760.9	1744.6	1864.4	2140.3	2547.0	3196.9	4101.0	4749.1	5063.1	3750.6	2325.5
57.5°	1283.5	1323.4	1450.5	1701.0	2142.2	2848.3	3984.8	4852.5	5404.4	4033.8	2458.0
60°	869.6	869.6	982.1	1232.6	1655.6	2425.4	3674.3	4814.4	5702.1	4255.3	2487.1
62.5°	553.7	548.2	639.0	816.9	1185.4	1884.4	3209.6	4574.8	5807.4	4307.9	2365.5
65°	350.4	357.6	390.3	499.2	758.8	1337.9	2576.0	4097.3	5635.0	4186.3	2153.1
67.5°	281.4	283.2	299.5	344.9	466.6	858.7	1909.8	3438.3	5222.9	3879.5	1904.3
70°	248.7	252.3	256.0	272.3	319.5	542.8	1254.4	2768.5	4547.5	3345.8	1637.5
72.5°	226.9	230.6	234.2	237.8	263.2	354.0	740.7	2098.6	3668.9	2570.6	1249.0
75°	208.8	212.4	212.4	214.2	228.7	263.2	406.6	1446.9	2554.3	1599.4	778.8
77.5°	187.0	188.8	188.8	192.4	207.0	207.0	252.3	895.0	1417.8	724.3	393.9
80°	157.9	161.6	161.6	167.0	181.5	159.8	168.8	457.5	588.2	297.7	176.1
82.5°	116.2	123.4	127.1	136.2	145.2	121.6	121.6	230.6	248.7	132.5	94.4
85°	63.5	65.4	94.4	101.7	107.1	72.6	81.7	114.4	123.4	58.1	47.2
87.5°	18.2	20.0	45.4	56.3	50.8	30.9	34.5	43.6	43.6	16.3	12.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	584.6	570.0	557.3	548.2	539.2	533.7	531.9	528.3	528.3	530.1
5°	591.8	566.4	546.4	535.5	528.3	524.6	522.8	522.8	524.6	524.6
7.5°	610.0	571.8	553.7	544.6	537.4	533.7	533.7	531.9	533.7	533.7
10°	635.4	588.2	568.2	557.3	551.9	546.4	544.6	542.8	542.8	542.8
12.5°	662.6	606.3	584.6	571.8	562.8	555.5	551.9	548.2	546.4	546.4
15°	688.0	624.5	595.4	580.9	568.2	557.3	550.1	544.6	542.8	542.8
17.5°	715.3	637.2	602.7	582.7	566.4	551.9	542.8	535.5	531.9	531.9
20°	744.3	646.3	602.7	577.3	555.5	541.0	530.1	522.8	515.6	515.6
22.5°	767.9	649.9	595.4	564.6	542.8	524.6	513.8	504.7	499.2	499.2
25°	787.9	646.3	579.1	544.6	519.2	502.9	492.0	484.7	479.3	479.3
27.5°	800.6	631.8	559.1	522.8	499.2	482.9	475.6	468.4	464.7	464.7
30°	807.8	613.6	533.7	499.2	475.6	466.6	462.9	455.7	450.2	448.4
32.5°	811.5	586.4	508.3	475.6	459.3	455.7	455.7	446.6	439.3	437.5
35°	807.8	557.3	482.9	455.7	450.2	452.0	448.4	437.5	428.4	424.8
37.5°	802.4	522.8	455.7	441.1	446.6	450.2	439.3	424.8	410.3	406.6
40°	798.8	492.0	433.9	426.6	443.0	444.8	424.8	397.6	386.7	383.0
42.5°	816.9	461.1	413.9	415.7	433.9	435.7	399.4	386.7	379.4	377.6
45°	878.6	433.9	397.6	408.5	423.0	415.7	386.7	384.9	379.4	377.6
47.5°	925.8	413.9	390.3	403.0	413.9	388.5	384.9	383.0	377.6	375.8
50°	942.2	401.2	388.5	399.4	401.2	375.8	381.2	381.2	375.8	374.0
52.5°	944.0	393.9	392.1	397.6	381.2	370.3	377.6	377.6	372.2	370.3
55°	951.3	390.3	393.9	397.6	359.4	363.1	370.3	372.2	366.7	364.9
57.5°	936.7	384.9	397.6	399.4	350.4	355.8	363.1	363.1	363.1	363.1
60°	880.5	374.0	395.8	395.8	343.1	346.7	354.0	357.6	359.4	359.4
62.5°	777.0	352.2	384.9	384.9	335.8	339.5	348.6	348.6	354.0	354.0
65°	646.3	321.3	363.1	361.3	328.6	332.2	343.1	339.5	348.6	350.4
67.5°	539.2	283.2	330.4	334.0	321.3	330.4	337.7	325.0	343.1	343.1
70°	430.2	237.8	286.8	303.2	308.6	332.2	326.8	306.8	330.4	325.0
72.5°	334.0	201.5	236.0	265.0	294.1	330.4	303.2	281.4	295.9	286.8
75°	243.3	167.0	194.2	219.7	274.1	325.0	279.6	246.9	246.9	243.3
77.5°	170.6	136.2	156.1	174.3	254.2	310.4	250.5	212.4	203.3	201.5
80°	116.2	107.1	123.4	134.3	225.1	281.4	216.0	176.1	159.8	156.1
82.5°	76.2	76.2	83.5	90.8	174.3	234.2	168.8	130.7	168.8	161.6
85°	43.6	45.4	45.4	52.6	96.2	165.2	119.8	130.7	78.1	72.6
87.5°	14.5	14.5	14.5	14.5	20.0	67.2	50.8	47.2	18.2	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)