

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: P573158

Luminaire Tested: **ARCH-S-PA2-40-740-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573158
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-PA2-40-740-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6723 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

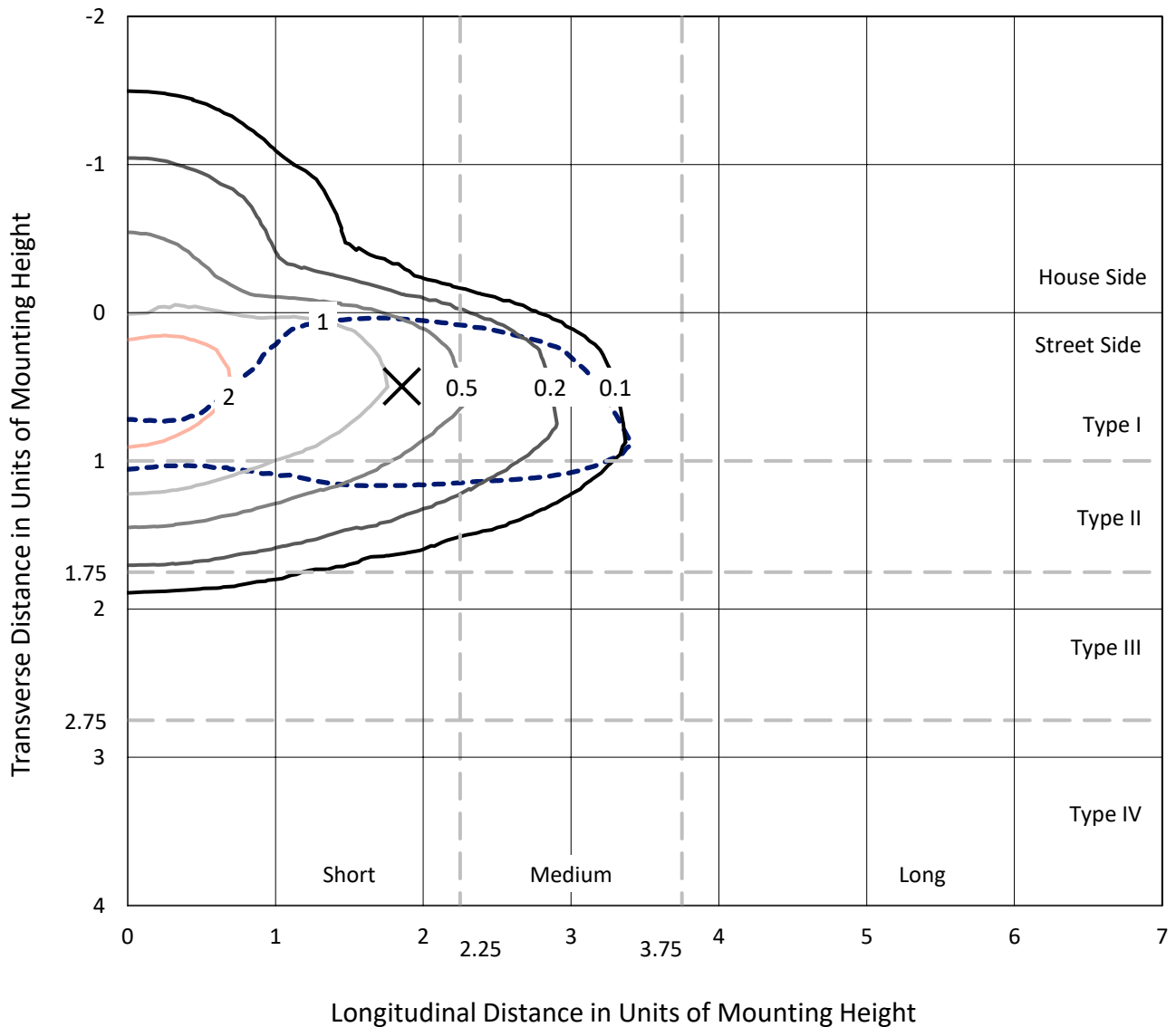
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

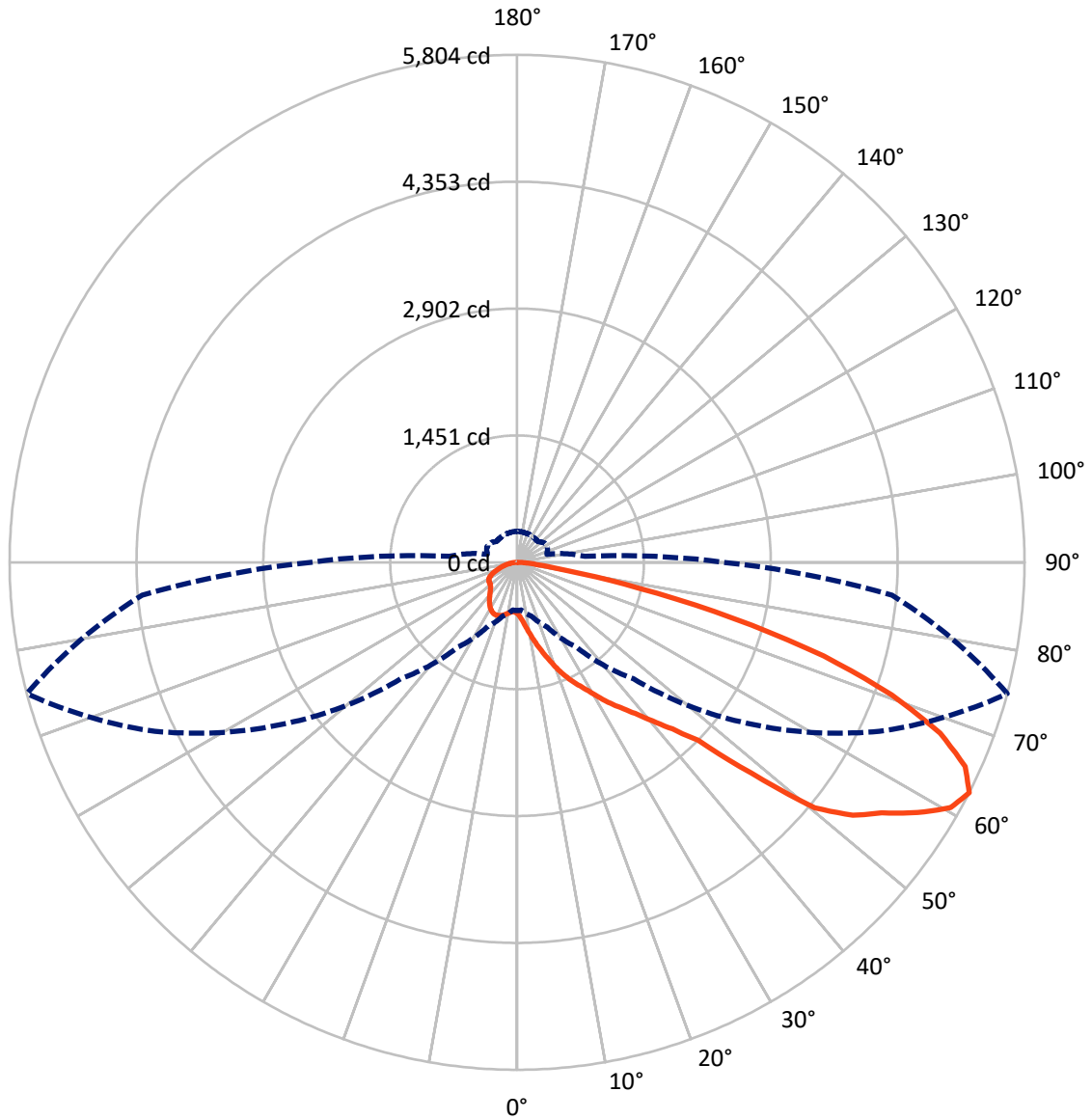
✕ Max cd
 - - - 1/2 Max cd



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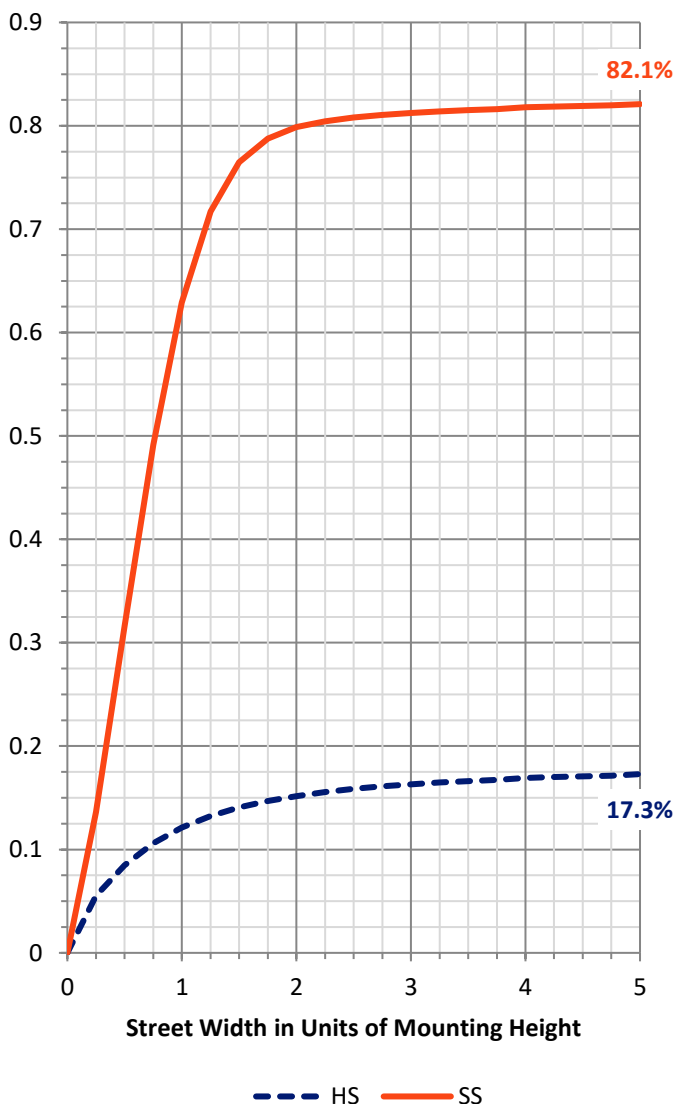
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.7	0.0	1185.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	5537.2	0.0	5537.2
	% Fixture	82.4	0.0	82.4
Total	Lumens	6723.0	0.0	6723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.0
10°-20°	278.2	4.1
20°-30°	550.4	8.2
30°-40°	917.4	13.6
40°-50°	1353.7	20.1
50°-60°	1627.3	24.2
60°-70°	1264.7	18.8
70°-80°	559.5	8.3
80°-90°	101.3	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°	6723.0	100.0
0°-180°	6723.0	100.0

Coefficient of Utilization

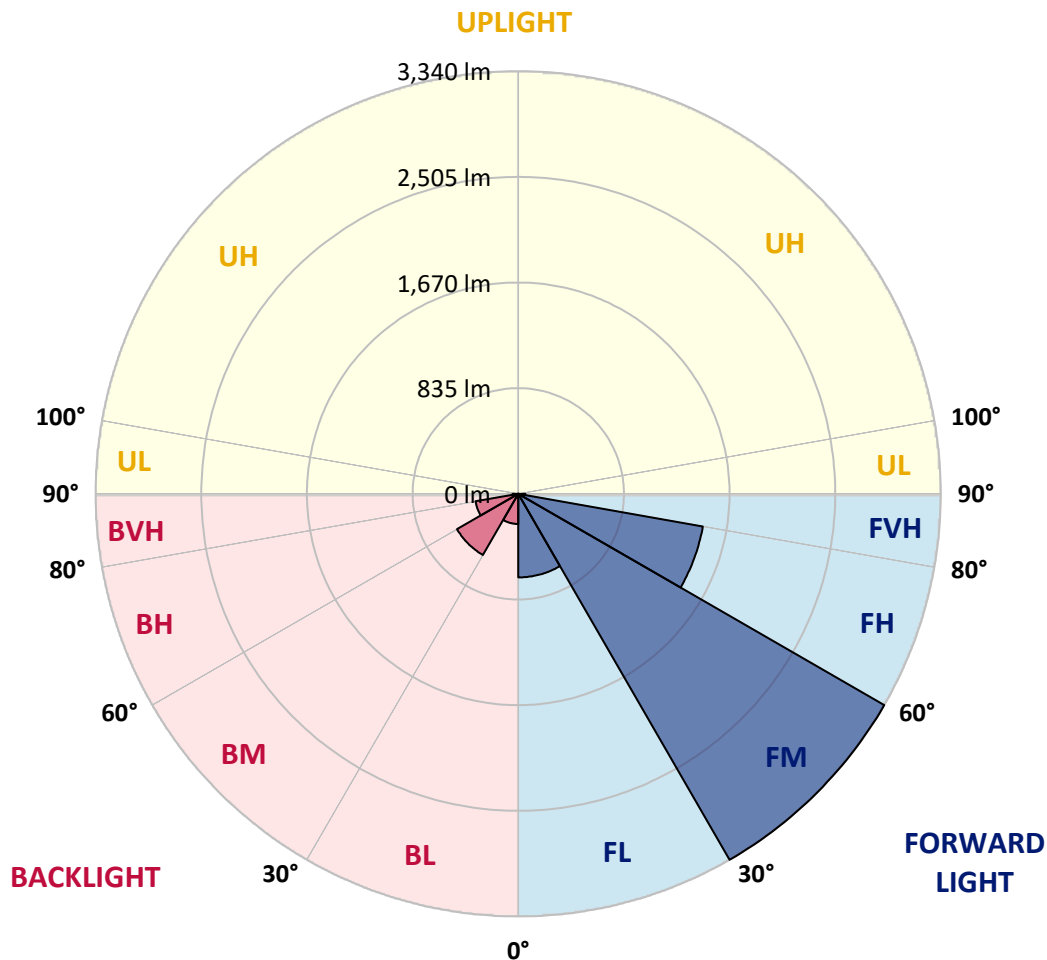


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.4	9.8			
FM (30°-60°)	3340.0	49.7			
FH (60°-80°)	1481.2	22.0			G1/1800
FVH (80°-90°)	55.7	0.8			G1/100
BL (0°-30°)	238.6	3.5	B1/500		
BM (30°-60°)	558.5	8.3	B1/1000		
BH (60°-80°)	343.1	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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	749.3	727.5	727.5	704.0	705.8	685.8	664.0	642.3	618.7	600.5	591.5
5°	979.7	963.4	958.0	930.7	887.2	838.2	785.6	731.2	674.9	631.4	609.6
7.5°	1195.6	1182.9	1175.7	1144.8	1085.0	1032.3	948.9	849.1	752.9	671.3	638.6
10°	1355.3	1346.2	1331.7	1317.2	1273.6	1228.3	1124.9	983.4	841.8	720.3	671.3
12.5°	1471.4	1458.7	1458.7	1456.9	1427.9	1386.1	1290.0	1137.6	945.3	774.7	707.6
15°	1549.4	1547.6	1553.0	1563.9	1556.7	1529.5	1433.3	1279.1	1050.5	836.4	749.3
17.5°	1607.5	1600.2	1611.1	1640.1	1661.9	1651.0	1571.2	1415.2	1166.6	903.5	794.7
20°	1671.0	1656.5	1671.0	1707.3	1734.5	1750.8	1712.7	1545.8	1291.8	976.1	838.2
22.5°	1792.5	1790.7	1783.5	1794.4	1812.5	1841.5	1819.8	1678.2	1413.3	1048.7	889.0
25°	2010.3	1990.3	1970.3	1946.8	1926.8	1935.9	1917.7	1801.6	1524.0	1128.5	932.6
27.5°	2253.4	2231.6	2195.3	2137.3	2082.8	2050.2	2012.1	1908.7	1631.1	1201.1	974.3
30°	2476.5	2469.3	2414.8	2351.3	2257.0	2197.1	2124.6	2032.0	1759.9	1280.9	1017.8
32.5°	2685.2	2670.7	2616.2	2549.1	2438.4	2371.3	2271.5	2166.3	1906.8	1378.9	1063.2
35°	2864.8	2850.3	2786.8	2701.5	2605.3	2547.3	2433.0	2286.0	2041.1	1464.1	1101.3
37.5°	3000.9	2984.5	2924.7	2841.2	2755.9	2728.7	2630.7	2438.4	2193.5	1571.2	1148.5
40°	3077.1	3057.1	3017.2	2959.1	2888.4	2875.7	2834.0	2627.1	2385.8	1701.8	1217.4
42.5°	3086.1	3068.0	3046.2	3040.8	3035.3	3046.2	3066.2	2841.2	2605.3	1876.0	1319.0
45°	3006.3	2995.4	2997.2	3058.9	3144.2	3244.0	3363.7	3156.9	2901.1	2208.0	1547.6
47.5°	2835.8	2830.3	2870.2	2973.7	3164.2	3390.9	3730.2	3697.6	3601.4	2743.2	1841.5
50°	2560.0	2550.9	2636.2	2799.5	3071.6	3439.9	3977.0	4334.4	4414.2	3158.7	2033.8
52.5°	2164.5	2175.4	2307.8	2531.0	2859.4	3387.3	4078.6	4595.6	4806.1	3465.3	2180.8
55°	1759.9	1743.6	1863.3	2139.1	2545.5	3195.0	4098.5	4746.2	5060.1	3748.4	2324.1
57.5°	1282.7	1322.6	1449.6	1700.0	2140.9	2846.7	3982.4	4849.6	5401.2	4031.4	2456.6
60°	869.1	869.1	981.5	1231.9	1654.7	2423.9	3672.2	4811.5	5698.7	4252.7	2485.6
62.5°	553.4	547.9	638.6	816.4	1184.7	1883.3	3207.7	4572.1	5804.0	4305.4	2364.0
65°	350.2	357.4	390.1	498.9	758.4	1337.1	2574.5	4094.9	5631.6	4183.8	2151.8
67.5°	281.2	283.0	299.4	344.7	466.3	858.2	1908.7	3436.3	5219.8	3877.2	1903.2
70°	248.6	252.2	255.8	272.1	319.3	542.5	1253.7	2766.8	4544.8	3343.8	1636.5
72.5°	226.8	230.4	234.0	237.7	263.1	353.8	740.2	2097.3	3666.7	2569.1	1248.2
75°	208.6	212.3	212.3	214.1	228.6	263.1	406.4	1446.0	2552.7	1598.4	778.3
77.5°	186.9	188.7	188.7	192.3	206.8	206.8	252.2	894.5	1417.0	723.9	393.7
80°	157.8	161.5	161.5	166.9	181.4	159.7	168.7	457.2	587.8	297.5	176.0
82.5°	116.1	123.4	127.0	136.1	145.1	121.6	121.6	230.4	248.6	132.4	94.3
85°	63.5	65.3	94.3	101.6	107.0	72.6	81.6	114.3	123.4	58.1	47.2
87.5°	18.1	20.0	45.4	56.2	50.8	30.8	34.5	43.5	43.5	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°	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0	586.0
2.5°	584.2	569.7	557.0	547.9	538.8	533.4	531.6	528.0	528.0	529.8
5°	591.5	566.1	546.1	535.2	528.0	524.3	522.5	522.5	524.3	524.3
7.5°	609.6	571.5	553.4	544.3	537.0	533.4	533.4	531.6	533.4	533.4
10°	635.0	587.8	567.9	557.0	551.6	546.1	544.3	542.5	542.5	542.5
12.5°	662.2	606.0	584.2	571.5	562.4	555.2	551.6	547.9	546.1	546.1
15°	687.6	624.1	595.1	580.6	567.9	557.0	549.7	544.3	542.5	542.5
17.5°	714.8	636.8	602.4	582.4	566.1	551.6	542.5	535.2	531.6	531.6
20°	743.9	645.9	602.4	577.0	555.2	540.7	529.8	522.5	515.3	515.3
22.5°	767.5	649.5	595.1	564.3	542.5	524.3	513.4	504.4	498.9	498.9
25°	787.4	645.9	578.8	544.3	518.9	502.6	491.7	484.4	479.0	479.0
27.5°	800.1	631.4	558.8	522.5	498.9	482.6	475.3	468.1	464.5	464.5
30°	807.4	613.2	533.4	498.9	475.3	466.3	462.6	455.4	449.9	448.1
32.5°	811.0	586.0	508.0	475.3	459.0	455.4	455.4	446.3	439.1	437.2
35°	807.4	557.0	482.6	455.4	449.9	451.8	448.1	437.2	428.2	424.5
37.5°	801.9	522.5	455.4	440.9	446.3	449.9	439.1	424.5	410.0	406.4
40°	798.3	491.7	433.6	426.4	442.7	444.5	424.5	397.3	386.4	382.8
42.5°	816.4	460.8	413.7	415.5	433.6	435.4	399.1	386.4	379.2	377.4
45°	878.1	433.6	397.3	408.2	422.7	415.5	386.4	384.6	379.2	377.4
47.5°	925.3	413.7	390.1	402.8	413.7	388.3	384.6	382.8	377.4	375.6
50°	941.6	401.0	388.3	399.1	401.0	375.6	381.0	381.0	375.6	373.7
52.5°	943.4	393.7	391.9	397.3	381.0	370.1	377.4	377.4	371.9	370.1
55°	950.7	390.1	393.7	397.3	359.2	362.9	370.1	371.9	366.5	364.7
57.5°	936.2	384.6	397.3	399.1	350.2	355.6	362.9	362.9	362.9	362.9
60°	879.9	373.7	395.5	395.5	342.9	346.5	353.8	357.4	359.2	359.2
62.5°	776.5	352.0	384.6	384.6	335.6	339.3	348.3	348.3	353.8	353.8
65°	645.9	321.1	362.9	361.0	328.4	332.0	342.9	339.3	348.3	350.2
67.5°	538.8	283.0	330.2	333.8	321.1	330.2	337.5	324.8	342.9	342.9
70°	430.0	237.7	286.7	303.0	308.4	332.0	326.6	306.6	330.2	324.8
72.5°	333.8	201.4	235.9	264.9	293.9	330.2	303.0	281.2	295.7	286.7
75°	243.1	166.9	194.1	219.5	274.0	324.8	279.4	246.7	246.7	243.1
77.5°	170.5	136.1	156.0	174.2	254.0	310.2	250.4	212.3	203.2	201.4
80°	116.1	107.0	123.4	134.3	225.0	281.2	215.9	176.0	159.7	156.0
82.5°	76.2	76.2	83.5	90.7	174.2	234.0	168.7	130.6	168.7	161.5
85°	43.5	45.4	45.4	52.6	96.2	165.1	119.7	130.6	78.0	72.6
87.5°	14.5	14.5	14.5	14.5	20.0	67.1	50.8	47.2	18.1	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)