

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: P1209913

Luminaire Tested: **ARCH1-20-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

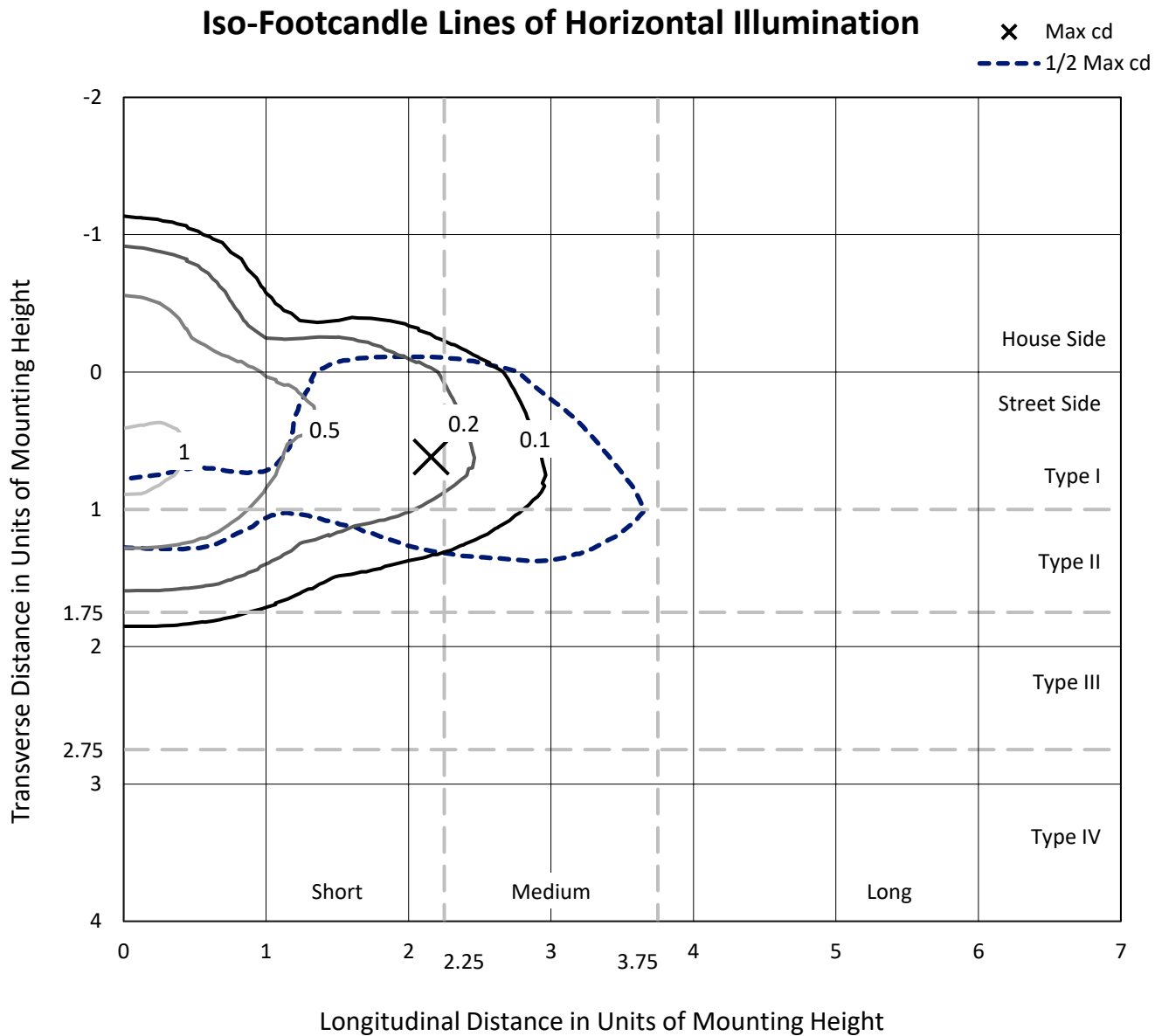
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' 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

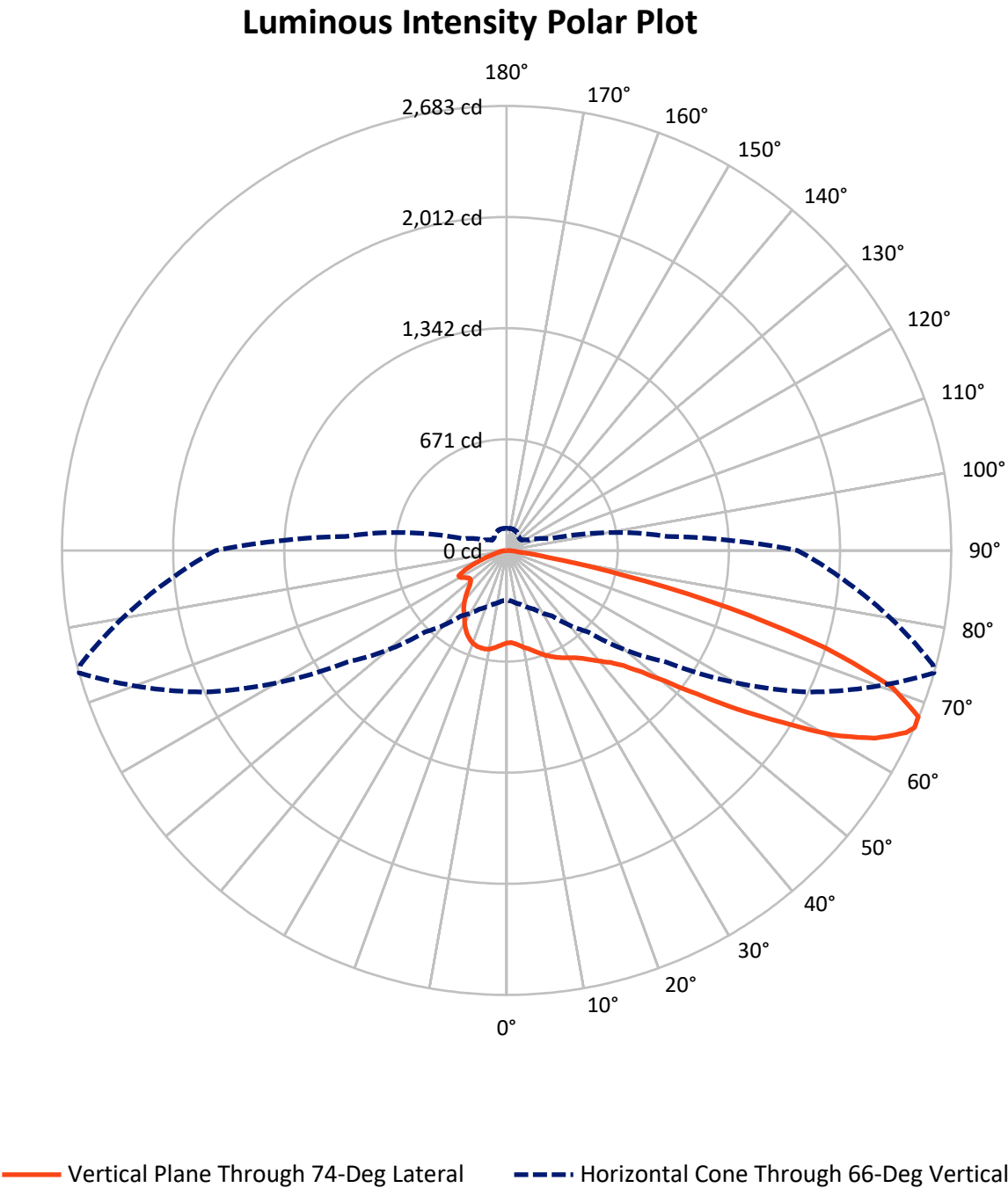


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Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

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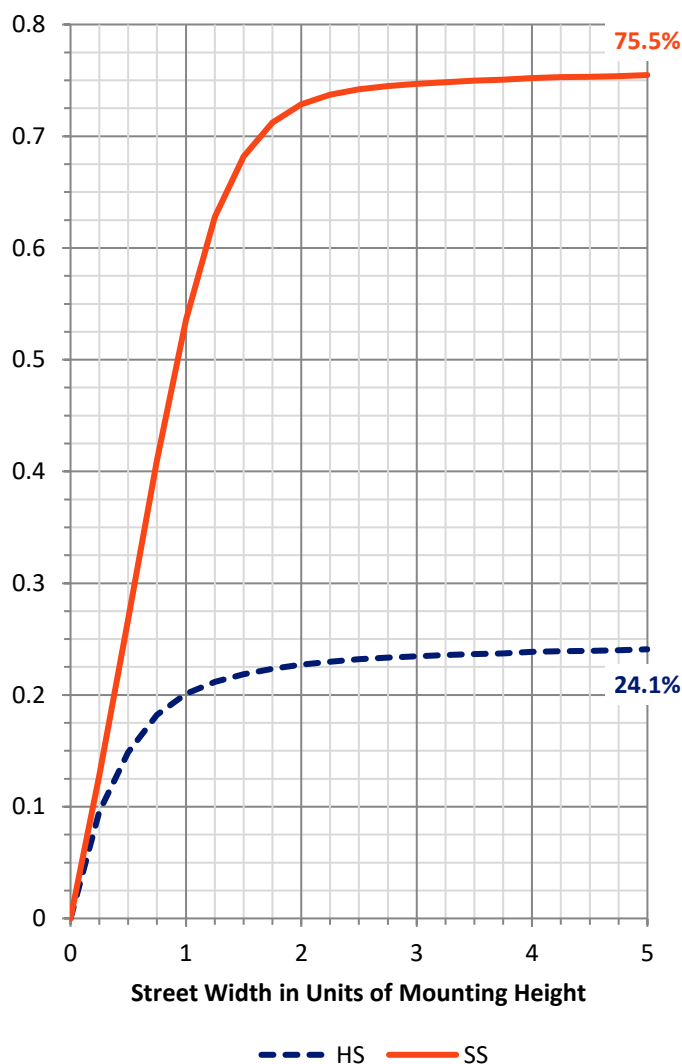
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	828.2	0.0	828.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	2572.8	0.0	2572.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	3401.0	0.0	3401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.6
10°-20°	163.6	4.8
20°-30°	306.9	9.0
30°-40°	472.1	13.9
40°-50°	635.0	18.7
50°-60°	751.0	22.1
60°-70°	694.7	20.4
70°-80°	292.3	8.6
80°-90°	32.3	1.0
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°	3401.0	100.0
0°-180°	3401.0	100.0

Coefficient of Utilization



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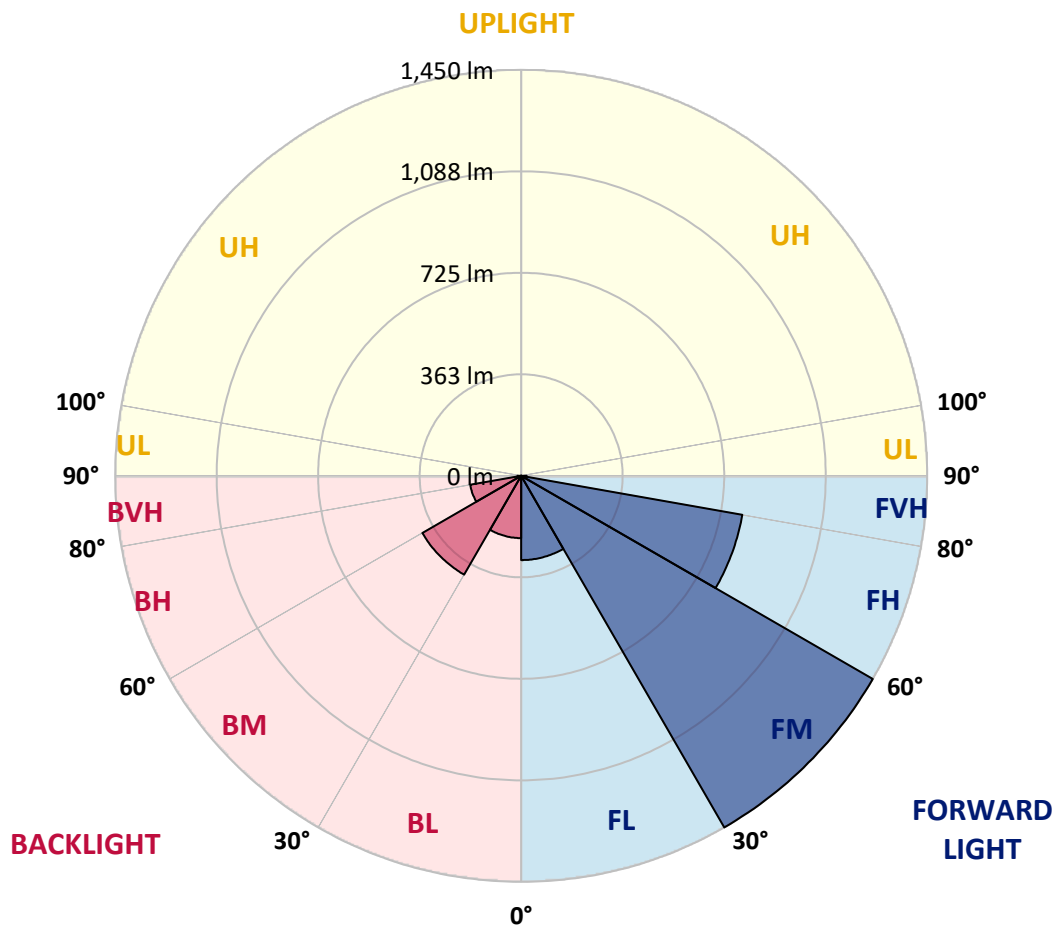
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.0	8.9			
FM	(30°-60°)	1450.3	42.6			
FH	(60°-80°)	802.1	23.6			G1/1800
FVH	(80°-90°)	19.3	0.6			G1/100
BL	(0°-30°)	222.6	6.5	B1/500		
BM	(30°-60°)	407.7	12.0	B1/1000		
BH	(60°-80°)	184.9	5.4	B1/500		G1/500
BVH	(80°-90°)	13.0	0.4			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°	74°	75°	85°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	555.8	554.9	556.7	559.3	560.6	558.4	557.5	557.1	557.1	555.8	558.0
5°	529.5	529.1	533.0	537.8	547.0	553.6	562.4	567.6	565.9	563.2	565.0
7.5°	495.4	494.5	499.3	508.5	521.2	535.7	557.1	573.7	580.3	579.4	579.0
10°	508.5	507.6	507.2	504.6	509.0	523.0	545.3	574.6	596.9	597.4	597.8
12.5°	554.0	556.2	554.0	545.7	536.1	530.8	544.0	576.8	610.9	613.6	624.5
15°	616.2	614.0	609.6	600.0	585.1	569.4	559.7	586.9	631.1	633.2	657.3
17.5°	670.9	672.6	670.0	660.8	643.3	622.7	593.4	604.4	652.5	658.6	692.3
20°	730.4	737.4	733.9	722.5	708.1	677.4	640.7	629.7	676.1	680.5	728.6
22.5°	799.1	806.5	800.0	789.0	777.2	739.6	692.3	660.8	695.8	705.0	763.7
25°	881.4	888.4	882.3	865.2	850.3	804.4	747.9	695.8	715.1	725.1	792.1
27.5°	946.6	951.8	957.5	947.5	924.7	877.0	805.7	732.2	734.3	744.8	818.4
30°	1004.8	1017.9	1022.7	1024.0	1004.8	951.4	864.8	769.8	751.0	761.9	844.6
32.5°	1084.4	1104.1	1096.3	1104.1	1092.8	1021.4	926.0	808.7	772.4	782.5	869.6
35°	1200.8	1216.6	1196.0	1189.9	1171.5	1092.3	985.1	849.0	800.9	811.8	893.2
37.5°	1326.0	1344.0	1314.2	1289.7	1254.7	1162.3	1035.9	901.9	840.2	849.0	915.1
40°	1435.4	1450.3	1424.5	1392.1	1333.4	1224.0	1079.6	939.1	879.6	890.6	940.5
42.5°	1536.5	1546.1	1517.3	1486.2	1407.8	1279.6	1126.9	978.5	925.6	936.1	961.0
45°	1638.9	1646.4	1606.1	1561.9	1470.0	1330.4	1179.0	1033.7	993.0	1007.0	994.3
47.5°	1657.3	1659.5	1652.5	1622.7	1519.0	1379.0	1243.3	1107.6	1095.8	1111.1	1051.6
50°	1529.9	1549.6	1593.0	1622.3	1538.7	1419.7	1307.6	1213.5	1237.6	1257.3	1170.7
52.5°	1282.7	1301.5	1401.7	1512.9	1491.4	1428.9	1376.8	1347.9	1437.6	1461.2	1332.6
55°	1021.9	1038.5	1144.4	1304.6	1338.7	1386.8	1450.7	1519.4	1692.7	1708.5	1510.3
57.5°	841.6	850.7	926.5	1080.5	1135.2	1252.5	1490.6	1723.4	1952.3	1976.3	1664.7
60°	690.1	700.2	756.7	883.6	956.2	1060.4	1459.0	1924.7	2262.1	2262.1	1863.0
62.5°	519.5	528.2	580.7	680.1	802.2	897.6	1358.4	2058.2	2495.8	2485.3	2006.5
65°	356.7	363.7	401.7	467.8	577.7	765.0	1221.0	2059.9	2650.7	2636.7	2067.8
66°	299.3	305.5	337.8	391.2	483.6	694.1	1172.4	2022.7	2683.1	2663.4	2042.0
67.5°	236.3	240.7	262.1	293.6	354.5	561.9	1095.8	1917.2	2680.0	2668.2	1976.3
70°	168.9	172.0	187.7	194.3	209.6	325.2	870.4	1679.2	2465.2	2468.7	1718.1
72.5°	130.9	135.7	145.3	146.6	143.1	172.9	528.2	1400.8	2016.6	2015.3	1275.2
75°	105.5	108.1	112.9	115.5	114.7	111.6	223.6	1045.1	1388.2	1404.3	714.2
77.5°	83.1	82.7	87.1	90.6	93.2	87.5	102.4	612.7	727.8	707.2	268.3
80°	61.3	61.3	67.4	68.7	72.6	73.5	68.3	236.3	249.9	227.1	69.6
82.5°	40.3	40.3	46.8	47.7	51.6	57.3	49.5	70.9	69.1	65.6	31.5
85°	21.9	21.0	23.2	26.3	28.4	33.7	29.8	35.4	36.3	35.9	21.0
87.5°	4.4	3.9	6.1	7.0	7.9	10.5	9.6	14.4	20.1	19.7	9.2
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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	561.0	560.6	565.4	571.1	577.7	581.6	583.4	586.4	584.2	585.1	587.7
5°	569.4	570.7	577.7	585.1	588.2	586.0	581.2	579.4	575.5	574.6	573.7
7.5°	581.6	583.8	590.8	592.5	583.4	568.0	557.1	551.0	544.4	542.7	541.8
10°	601.7	603.1	604.8	586.9	564.1	543.5	530.0	524.3	519.9	516.4	517.3
12.5°	627.1	626.2	612.7	575.5	543.1	522.1	512.9	509.4	506.3	504.1	503.7
15°	659.1	652.9	614.0	559.7	523.4	505.9	499.3	498.0	494.5	494.5	494.1
17.5°	691.5	675.7	613.1	543.1	504.6	495.0	491.0	490.1	489.3	488.8	490.1
20°	723.8	695.8	606.1	522.5	491.5	485.8	484.9	485.3	484.5	485.8	484.9
22.5°	752.3	709.0	593.0	500.6	482.3	481.8	479.6	480.5	483.6	484.0	485.3
25°	774.2	713.8	573.7	480.5	475.7	474.8	477.5	481.0	483.6	484.0	486.2
27.5°	792.1	711.1	549.7	464.8	464.3	469.1	477.0	478.3	478.8	478.8	477.0
30°	805.7	705.5	519.0	447.3	449.4	461.3	468.7	468.7	465.2	464.3	466.9
32.5°	808.7	698.0	485.8	429.3	432.8	446.8	456.0	452.9	449.0	449.0	450.8
35°	811.4	687.9	459.1	404.8	410.1	426.7	435.4	429.3	424.9	423.6	423.2
37.5°	810.5	684.0	435.0	373.7	380.7	396.9	402.6	396.9	390.4	387.3	391.2
40°	811.4	681.4	404.8	339.6	346.6	356.2	363.7	359.3	353.2	345.3	349.2
42.5°	816.6	684.9	371.5	306.3	306.3	311.6	324.3	321.2	306.3	303.3	306.8
45°	844.6	703.7	338.3	273.1	268.3	271.8	284.9	271.8	262.6	262.6	265.6
47.5°	912.5	738.7	309.0	243.8	232.4	239.4	242.9	230.6	223.6	221.9	224.9
50°	1050.7	808.7	291.5	219.7	205.7	210.9	208.7	208.3	201.3	202.2	203.9
52.5°	1260.8	945.3	286.2	207.9	190.4	191.7	189.5	190.4	189.1	193.4	194.7
55°	1489.7	1089.3	292.8	209.6	179.9	170.7	171.5	175.9	181.2	188.2	189.5
57.5°	1660.8	1161.5	309.8	221.4	166.7	152.7	154.9	163.2	173.3	179.0	182.1
60°	1788.1	1152.7	334.8	224.5	151.0	136.5	140.5	152.7	161.5	166.3	169.4
62.5°	1829.7	1098.0	340.9	202.2	130.4	121.2	130.9	143.5	147.5	152.7	154.9
65°	1795.6	1020.5	296.3	164.1	114.7	109.8	123.8	133.5	138.7	141.4	141.8
66°	1755.3	974.2	272.2	149.2	109.0	106.3	121.2	129.1	134.4	133.9	134.4
67.5°	1666.9	877.0	233.3	128.2	100.7	101.1	116.8	122.1	123.8	122.5	122.5
70°	1366.3	617.5	167.2	97.2	88.4	94.5	105.0	106.3	110.3	108.5	108.5
72.5°	842.4	303.3	112.0	74.4	78.8	88.4	88.0	92.3	101.5	104.2	105.9
75°	414.0	123.0	74.0	63.0	70.5	74.0	73.1	84.0	97.2	108.5	112.5
77.5°	157.1	61.3	51.6	55.1	56.9	55.6	58.2	76.1	97.2	117.7	121.7
80°	48.6	42.4	40.7	45.5	42.9	40.7	43.8	63.0	82.3	89.3	89.3
82.5°	29.3	33.3	31.5	31.1	28.9	29.3	31.5	45.1	63.5	66.5	66.5
85°	20.6	21.9	17.9	17.1	16.6	16.2	16.2	26.3	37.6	37.2	38.5
87.5°	7.9	8.8	6.6	6.6	6.1	4.4	3.5	4.4	4.4	3.1	2.2
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)