

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: P1209949

Luminaire Tested: **ARCH1-30-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209949
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: ARCH1-30-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4634 lumens
Efficiency: N/A
Efficacy: 140.4 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): 33
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

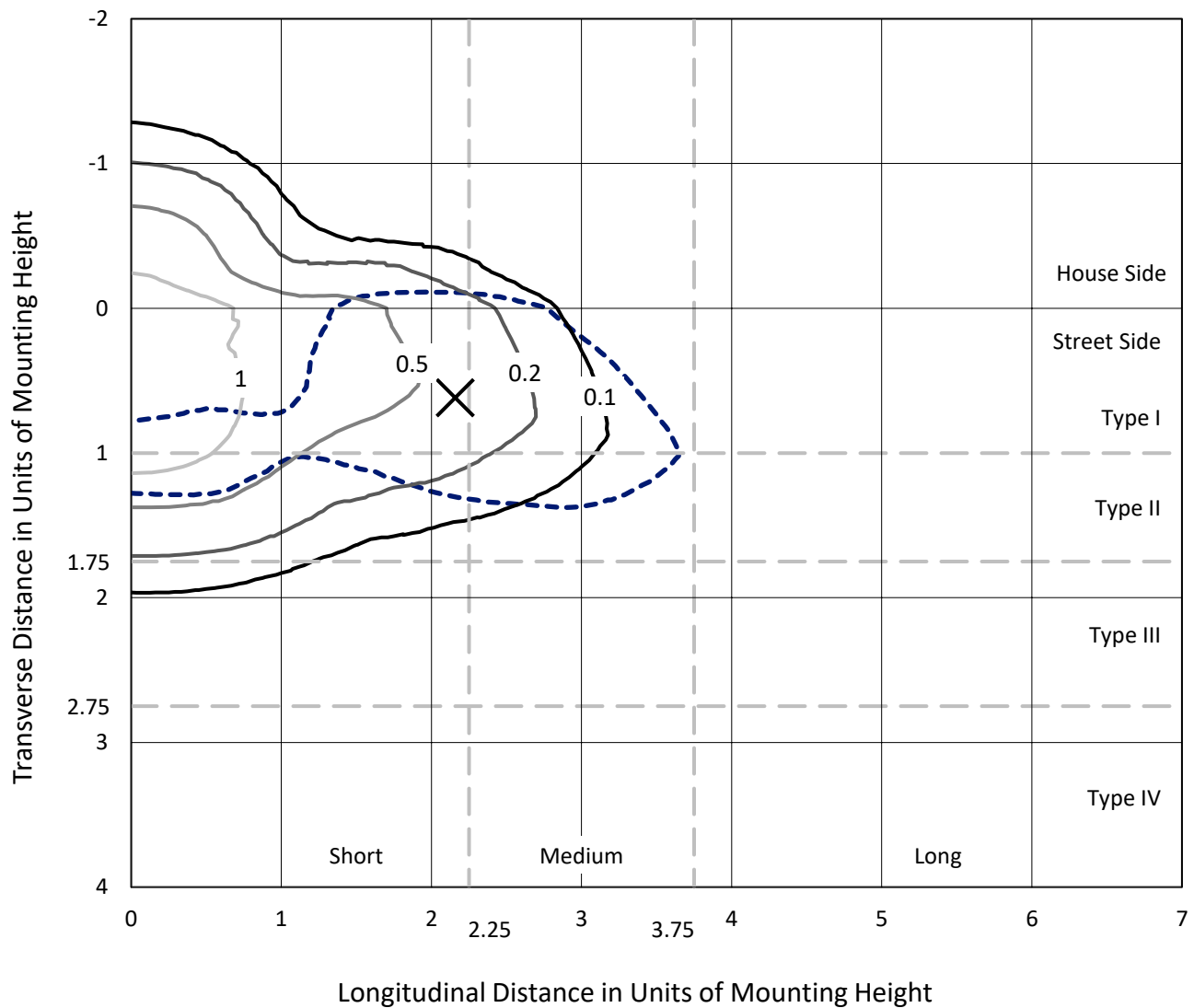


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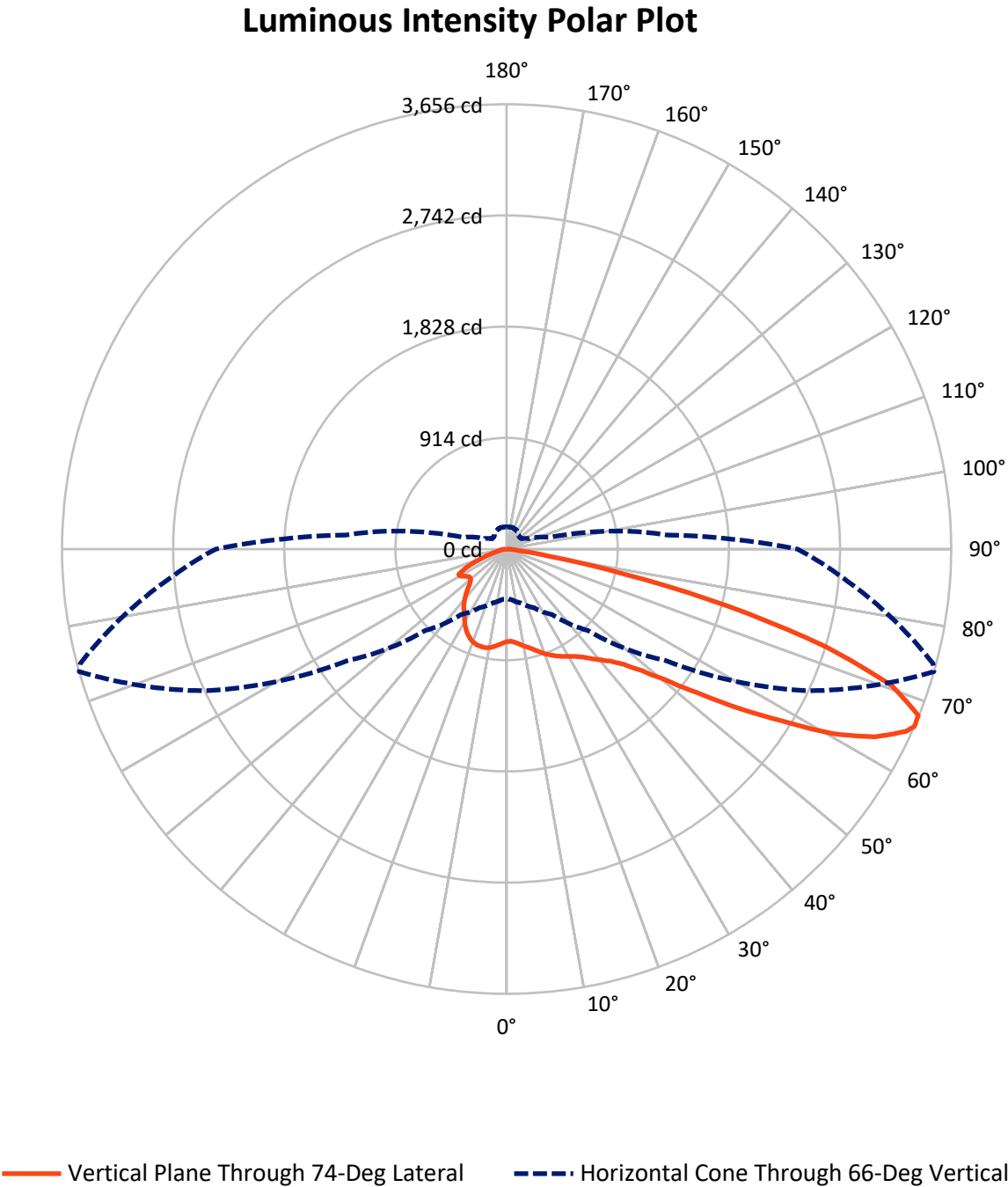
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.5	0.0	1128.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	3505.5	0.0	3505.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	4634.0	0.0	4634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.6
10°-20°	222.8	4.8
20°-30°	418.2	9.0
30°-40°	643.2	13.9
40°-50°	865.2	18.7
50°-60°	1023.2	22.1
60°-70°	946.5	20.4
70°-80°	398.2	8.6
80°-90°	44.1	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°	4634.0	100.0
0°-180°	4634.0	100.0

Coefficient of Utilization



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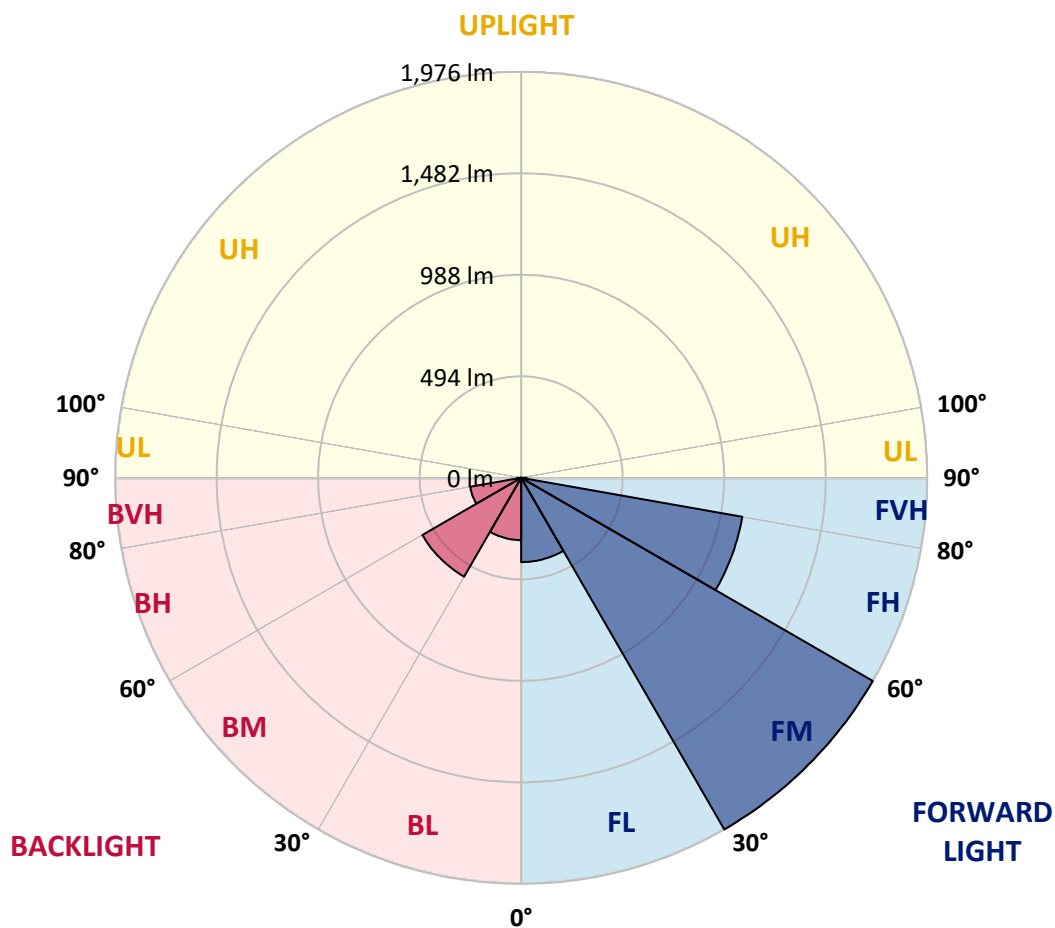
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.2	8.9			
FM	(30°-60°)	1976.1	42.6			
FH	(60°-80°)	1092.8	23.6			G1/1800
FVH	(80°-90°)	26.4	0.6			G1/100
BL	(0°-30°)	303.3	6.5	B1/500		
BM	(30°-60°)	555.6	12.0	B1/1000		
BH	(60°-80°)	251.9	5.4	B1/500		G1/500
BVH	(80°-90°)	17.7	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°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	757.3	756.1	758.5	762.1	763.8	760.9	759.7	759.1	759.1	757.3	760.3
5°	721.5	720.9	726.3	732.8	745.4	754.3	766.2	773.4	771.0	767.4	769.8
7.5°	675.0	673.8	680.4	692.9	710.2	729.9	759.1	781.7	790.7	789.5	788.9
10°	692.9	691.7	691.1	687.5	693.5	712.6	743.0	782.9	813.3	813.9	814.5
12.5°	754.9	757.9	754.9	743.6	730.4	723.3	741.2	785.9	832.4	836.0	850.9
15°	839.6	836.6	830.6	817.5	797.2	775.8	762.6	799.6	859.8	862.8	895.6
17.5°	914.1	916.5	912.9	900.4	876.5	848.5	808.6	823.5	889.1	897.4	943.3
20°	995.2	1004.7	1000.0	984.5	964.8	923.0	873.0	858.1	921.3	927.2	992.8
22.5°	1088.8	1099.0	1090.0	1075.1	1059.0	1007.7	943.3	900.4	948.1	960.6	1040.5
25°	1200.9	1210.5	1202.1	1178.9	1158.6	1096.0	1019.1	948.1	974.3	988.0	1079.3
27.5°	1289.8	1296.9	1304.7	1291.0	1259.9	1195.0	1097.8	997.6	1000.6	1014.9	1115.1
30°	1369.1	1387.0	1393.5	1395.3	1369.1	1296.3	1178.3	1048.9	1023.2	1038.1	1150.8
32.5°	1477.6	1504.4	1493.7	1504.4	1488.9	1391.7	1261.7	1101.9	1052.4	1066.2	1184.8
35°	1636.2	1657.7	1629.6	1621.3	1596.3	1488.3	1342.2	1156.8	1091.2	1106.1	1217.0
37.5°	1806.7	1831.2	1790.6	1757.3	1709.5	1583.7	1411.4	1228.9	1144.9	1156.8	1246.8
40°	1955.8	1976.1	1940.9	1896.8	1816.9	1667.8	1471.0	1279.6	1198.5	1213.4	1281.4
42.5°	2093.6	2106.7	2067.3	2025.0	1918.2	1743.5	1535.4	1333.3	1261.1	1275.5	1309.4
45°	2233.1	2243.2	2188.4	2128.1	2002.9	1812.7	1606.4	1408.4	1353.0	1372.1	1354.8
47.5°	2258.1	2261.1	2251.6	2211.0	2069.7	1878.9	1694.0	1509.2	1493.1	1514.0	1432.9
50°	2084.6	2111.4	2170.5	2210.4	2096.5	1934.3	1781.7	1653.5	1686.3	1713.1	1595.1
52.5°	1747.7	1773.4	1909.9	2061.4	2032.1	1946.9	1875.9	1836.6	1958.8	1991.0	1815.7
55°	1392.3	1415.0	1559.3	1777.5	1824.0	1889.6	1976.7	2070.3	2306.4	2327.9	2057.8
57.5°	1146.7	1159.2	1262.3	1472.2	1546.8	1706.6	2030.9	2348.2	2660.0	2692.8	2268.3
60°	940.3	954.1	1031.0	1203.9	1302.9	1444.8	1988.0	2622.5	3082.2	3082.2	2538.4
62.5°	707.8	719.7	791.3	926.6	1093.0	1223.0	1850.9	2804.3	3400.6	3386.3	2734.0
65°	486.0	495.5	547.4	637.4	787.1	1042.3	1663.6	2806.7	3611.7	3592.6	2817.4
66°	407.9	416.2	460.3	533.1	658.9	945.7	1597.4	2756.0	3655.8	3629.0	2782.3
67.5°	322.0	328.0	357.2	400.1	483.0	765.6	1493.1	2612.3	3651.6	3635.5	2692.8
70°	230.2	234.3	255.8	264.8	285.6	443.0	1186.0	2287.9	3358.9	3363.6	2341.0
72.5°	178.3	184.8	198.0	199.8	195.0	235.5	719.7	1908.7	2747.7	2745.9	1737.6
75°	143.7	147.3	153.8	157.4	156.2	152.1	304.7	1423.9	1891.4	1913.5	973.1
77.5°	113.3	112.7	118.7	123.4	127.0	119.3	139.5	834.8	991.6	963.6	365.5
80°	83.5	83.5	91.8	93.6	99.0	100.2	93.0	322.0	340.5	309.5	94.8
82.5°	54.9	54.9	63.8	65.0	70.4	78.1	67.4	96.6	94.2	89.4	42.9
85°	29.8	28.6	31.6	35.8	38.8	45.9	40.5	48.3	49.5	48.9	28.6
87.5°	6.0	5.4	8.3	9.5	10.7	14.3	13.1	19.7	27.4	26.8	12.5
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°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	764.4	763.8	770.4	778.2	787.1	792.5	794.8	799.0	796.0	797.2	800.8
5°	775.8	777.6	787.1	797.2	801.4	798.4	791.9	789.5	784.1	782.9	781.7
7.5°	792.5	795.4	805.0	807.4	794.8	774.0	759.1	750.7	741.8	739.4	738.2
10°	819.9	821.7	824.1	799.6	768.6	740.6	722.1	714.3	708.4	703.6	704.8
12.5°	854.5	853.3	834.8	784.1	740.0	711.4	698.8	694.1	689.9	686.9	686.3
15°	898.0	889.7	836.6	762.6	713.2	689.3	680.4	678.6	673.8	673.8	673.2
17.5°	942.1	920.7	835.4	740.0	687.5	674.4	669.0	667.8	666.6	666.0	667.8
20°	986.3	948.1	825.9	712.0	669.6	661.9	660.7	661.3	660.1	661.9	660.7
22.5°	1025.0	966.0	808.0	682.1	657.1	656.5	653.5	654.7	658.9	659.5	661.3
25°	1054.8	972.5	781.7	654.7	648.2	647.0	650.5	655.3	658.9	659.5	662.5
27.5°	1079.3	969.0	748.9	633.3	632.7	639.2	650.0	651.7	652.3	652.3	650.0
30°	1097.8	961.2	707.2	609.4	612.4	628.5	638.6	638.6	633.9	632.7	636.2
32.5°	1101.9	951.1	661.9	585.0	589.7	608.8	621.3	617.2	611.8	611.8	614.2
35°	1105.5	937.4	625.5	551.6	558.7	581.4	593.3	585.0	579.0	577.2	576.6
37.5°	1104.3	932.0	592.7	509.2	518.8	540.8	548.6	540.8	531.9	527.7	533.1
40°	1105.5	928.4	551.6	462.7	472.3	485.4	495.5	489.5	481.2	470.5	475.8
42.5°	1112.7	933.2	506.2	417.4	417.4	424.6	441.8	437.7	417.4	413.2	418.0
45°	1150.8	958.8	460.9	372.1	365.5	370.3	388.2	370.3	357.8	357.8	361.9
47.5°	1243.3	1006.5	421.0	332.1	316.6	326.2	330.9	314.2	304.7	302.3	306.5
50°	1431.7	1101.9	397.1	299.3	280.3	287.4	284.4	283.8	274.3	275.5	277.9
52.5°	1717.9	1288.0	390.0	283.2	259.4	261.2	258.2	259.4	257.6	263.6	265.3
55°	2029.8	1484.2	398.9	285.6	245.1	232.6	233.7	239.7	246.9	256.4	258.2
57.5°	2262.9	1582.5	422.2	301.7	227.2	208.1	211.1	222.4	236.1	243.9	248.1
60°	2436.4	1570.6	456.2	305.9	205.7	186.0	191.4	208.1	220.0	226.6	230.8
62.5°	2493.1	1496.1	464.5	275.5	177.7	165.2	178.3	195.6	200.9	208.1	211.1
65°	2446.6	1390.5	403.7	223.6	156.2	149.7	168.7	181.9	189.0	192.6	193.2
66°	2391.7	1327.3	370.9	203.3	148.5	144.9	165.2	175.9	183.1	182.5	183.1
67.5°	2271.2	1195.0	317.8	174.7	137.1	137.7	159.2	166.4	168.7	167.0	167.0
70°	1861.6	841.4	227.8	132.4	120.4	128.8	143.1	144.9	150.3	147.9	147.9
72.5°	1147.8	413.2	152.6	101.4	107.3	120.4	119.9	125.8	138.3	141.9	144.3
75°	564.1	167.6	100.8	85.9	96.0	100.8	99.6	114.5	132.4	147.9	153.2
77.5°	214.1	83.5	70.4	75.1	77.5	75.7	79.3	103.8	132.4	160.4	165.8
80°	66.2	57.8	55.5	62.0	58.4	55.5	59.6	85.9	112.1	121.6	121.6
82.5°	40.0	45.3	42.9	42.3	39.4	40.0	42.9	61.4	86.5	90.6	90.6
85°	28.0	29.8	24.4	23.3	22.7	22.1	22.1	35.8	51.3	50.7	52.5
87.5°	10.7	11.9	8.9	8.9	8.3	6.0	4.8	6.0	6.0	4.2	3.0
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)