

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: P1209963

Luminaire Tested: **ARCH1-30-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - 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

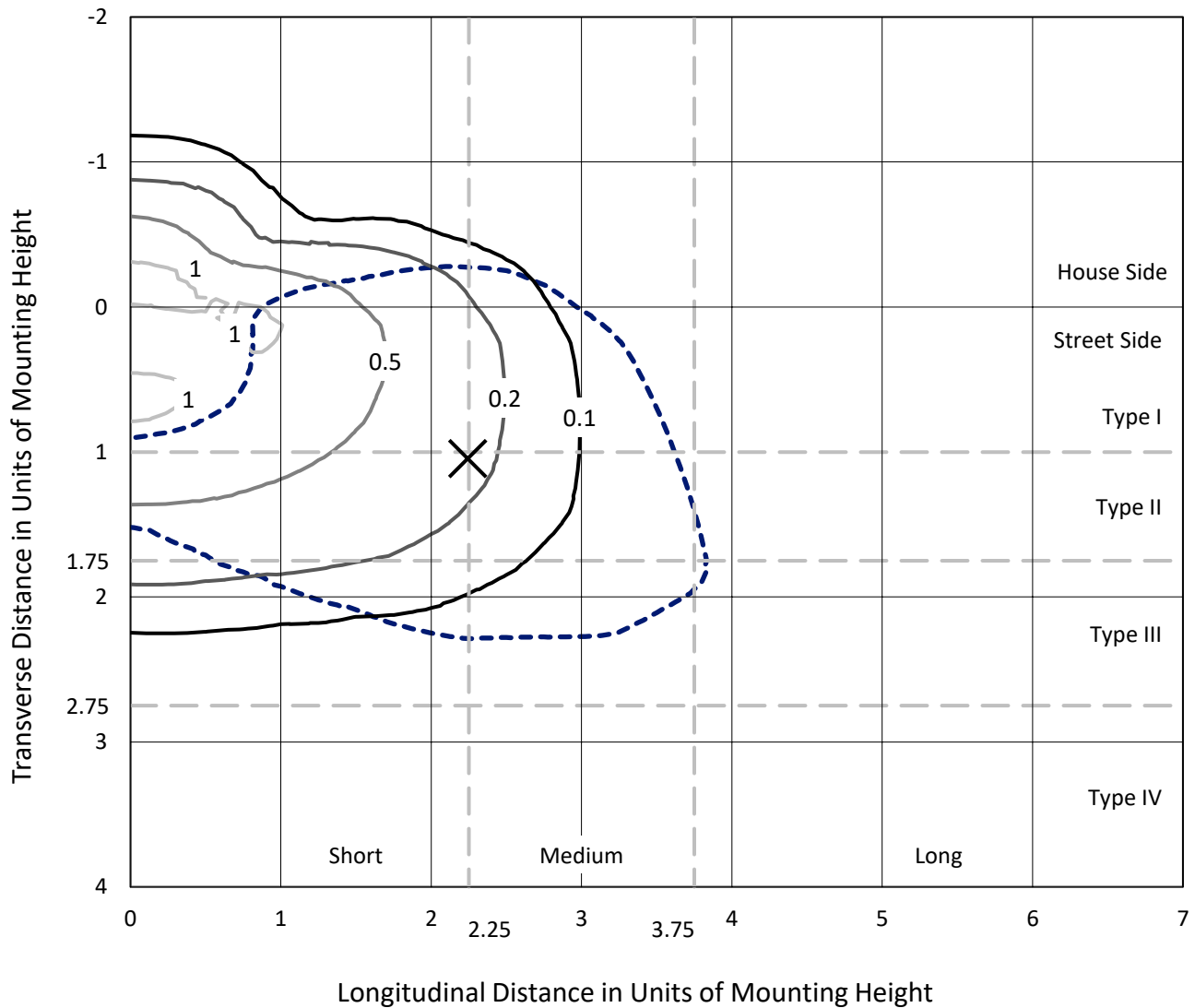


REPORT NUMBER: P1209963

CATALOG NUMBER: ARCH1-30-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

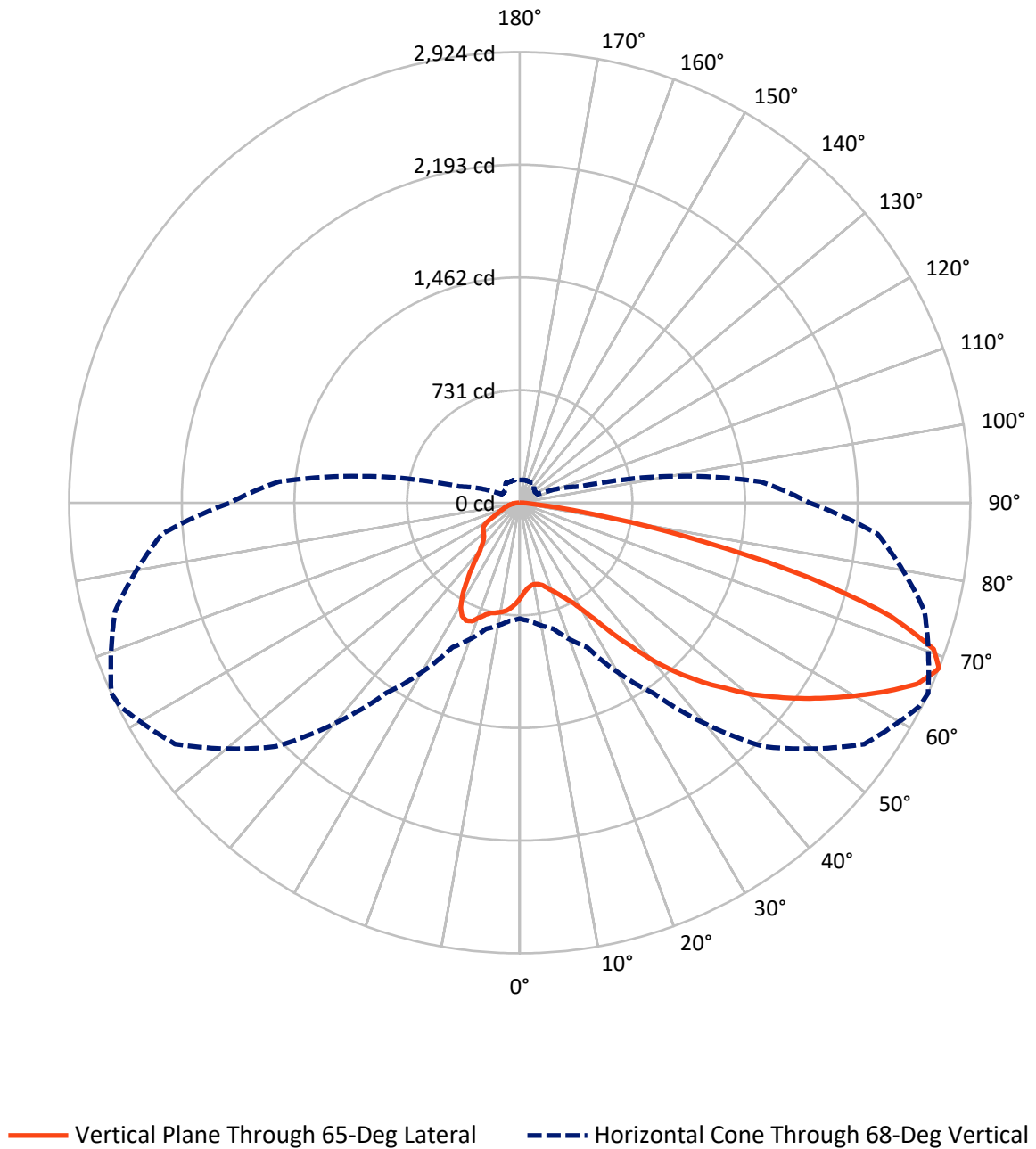
✕ Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P1209963
CATALOG NUMBER: ARCH1-30-750-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1209963

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.7	0.0	1182.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	3641.3	0.0	3641.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	4824.0	0.0	4824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	1.2
10°-20°	191.8	4.0
20°-30°	347.2	7.2
30°-40°	546.2	11.3
40°-50°	813.4	16.9
50°-60°	1067.1	22.1
60°-70°	1166.9	24.2
70°-80°	577.4	12.0
80°-90°	55.1	1.1
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°	4824.0	100.0
0°-180°	4824.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209963

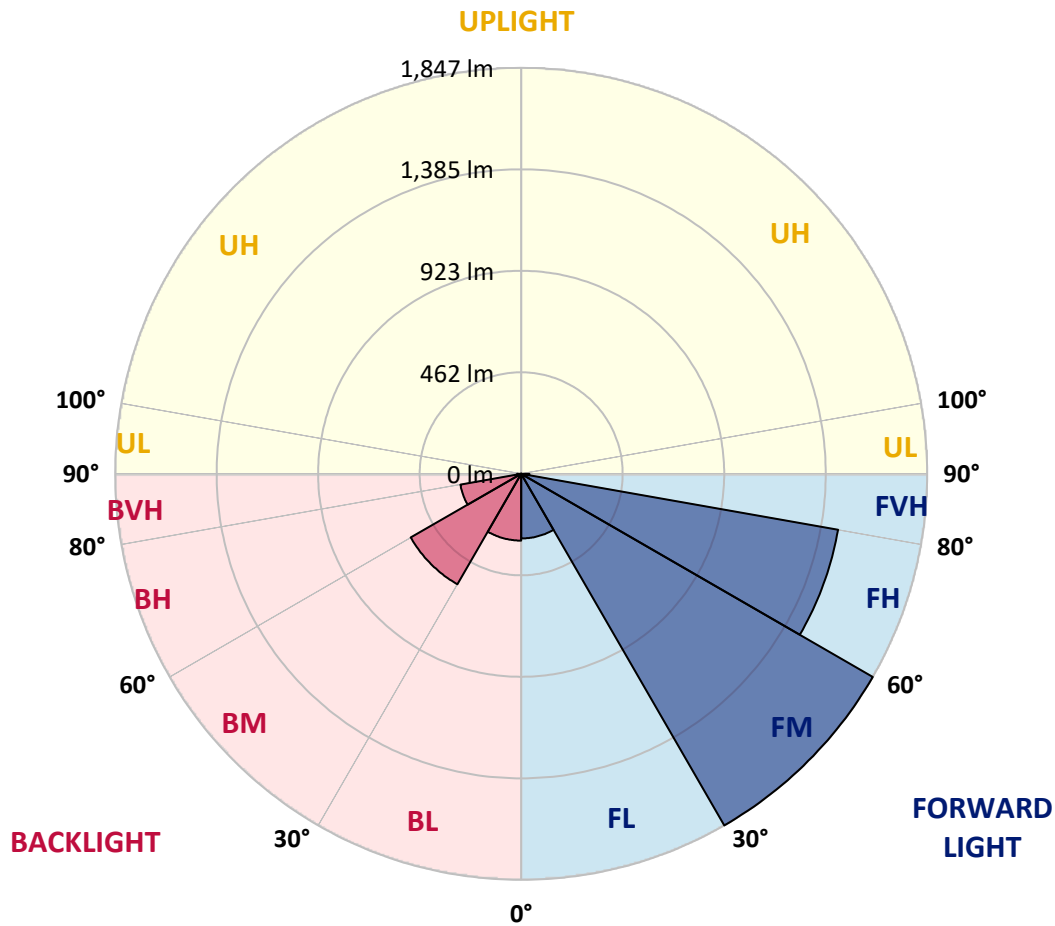
CATALOG NUMBER: ARCH1-30-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.1	6.1			
FM	(30°-60°)	1846.6	38.3			
FH	(60°-80°)	1463.6	30.3			G1/1800
FVH	(80°-90°)	37.0	0.8			G1/100
BL	(0°-30°)	303.8	6.3	B1/500		
BM	(30°-60°)	580.1	12.0	B1/1000		
BH	(60°-80°)	280.7	5.8	B1/500		G1/500
BVH	(80°-90°)	18.0	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 III Short



REPORT NUMBER: P1209963

CATALOG NUMBER: ARCH1-30-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4
2.5°	538.1	536.8	539.9	543.0	549.9	558.0	569.2	578.5	579.7	597.2	610.9
5°	506.3	504.5	507.6	511.3	514.4	524.4	536.2	549.9	555.5	581.0	610.2
7.5°	509.5	508.8	510.1	508.8	508.8	513.2	521.3	535.0	541.2	571.7	613.3
10°	527.5	528.7	529.4	525.6	521.9	520.0	522.5	531.9	536.2	572.3	627.0
12.5°	557.4	559.2	559.8	553.0	548.0	539.9	535.6	539.3	542.4	578.5	646.3
15°	597.8	599.0	594.7	590.3	577.9	567.9	557.4	554.2	555.5	591.6	668.1
17.5°	645.1	643.2	643.2	632.6	616.4	600.9	583.5	581.0	581.0	612.7	699.2
20°	696.7	698.6	693.0	678.7	662.5	638.2	620.8	609.6	610.9	637.0	737.1
22.5°	771.3	774.4	759.5	739.0	714.1	686.1	661.2	643.2	643.8	668.7	776.3
25°	851.6	852.8	843.5	816.1	782.5	742.7	709.8	686.7	686.1	704.2	826.7
27.5°	933.7	939.3	920.6	894.5	863.4	813.6	770.1	739.0	734.0	758.3	889.5
30°	1018.3	1025.1	1007.1	981.6	943.0	900.7	849.1	813.0	809.9	842.3	973.5
32.5°	1103.5	1105.4	1091.1	1069.9	1035.1	995.3	953.6	913.8	910.7	963.6	1082.4
35°	1173.2	1178.8	1168.8	1163.8	1138.3	1101.6	1061.2	1038.2	1046.3	1114.1	1223.6
37.5°	1257.2	1262.8	1251.6	1250.3	1242.2	1210.5	1182.5	1184.4	1192.5	1284.5	1372.2
40°	1378.5	1384.7	1356.1	1343.6	1343.6	1312.5	1303.2	1347.4	1357.9	1452.5	1527.1
42.5°	1481.1	1491.0	1474.3	1466.2	1441.9	1420.1	1431.3	1493.5	1511.6	1613.0	1662.1
45°	1530.9	1538.3	1558.2	1581.9	1558.2	1520.3	1562.6	1632.9	1658.4	1761.0	1797.1
47.5°	1557.6	1564.4	1587.5	1650.9	1667.1	1635.4	1695.1	1782.8	1800.2	1907.8	1925.9
50°	1561.3	1583.1	1613.0	1676.4	1750.4	1754.8	1828.2	1935.2	1955.7	2052.1	2039.1
52.5°	1530.9	1539.6	1601.1	1708.1	1790.3	1864.9	1973.1	2081.4	2096.3	2187.7	2139.2
55°	1481.1	1493.5	1555.1	1700.7	1828.8	1969.4	2120.6	2225.1	2241.9	2319.6	2231.9
57.5°	1436.3	1442.5	1508.5	1678.9	1867.4	2073.9	2251.8	2375.0	2386.2	2435.3	2300.3
60°	1386.5	1393.4	1459.3	1632.3	1896.0	2152.9	2388.7	2526.1	2536.1	2557.2	2380.0
62.5°	1257.8	1275.8	1358.6	1555.1	1888.5	2243.1	2534.8	2675.4	2687.9	2664.8	2442.8
65°	1021.4	1046.9	1148.3	1380.3	1818.9	2301.6	2654.3	2812.9	2834.0	2745.7	2459.6
67.5°	793.1	811.1	892.6	1095.4	1574.4	2272.3	2731.4	2907.4	2913.7	2732.7	2366.3
68°	752.1	770.1	847.9	1035.7	1506.6	2237.5	2729.5	2909.9	2923.6	2718.3	2330.2
70°	575.4	595.9	669.9	820.5	1214.2	2016.1	2615.7	2850.2	2848.4	2545.4	2106.3
72.5°	359.5	371.4	422.4	517.5	803.1	1534.0	2220.1	2513.7	2518.7	2075.1	1615.5
75°	228.3	228.3	225.8	250.7	411.8	874.0	1650.3	1935.2	1938.9	1453.1	1018.3
77.5°	198.4	192.8	166.1	140.6	164.2	339.6	976.6	1249.7	1229.2	782.5	483.3
80°	167.3	158.0	136.2	113.2	105.7	106.4	375.1	634.5	607.1	281.8	160.5
82.5°	120.7	112.6	102.6	89.0	81.5	63.4	78.4	183.5	179.1	81.5	52.3
85°	65.3	59.1	57.9	58.5	49.1	39.2	33.0	40.4	40.4	35.5	29.9
87.5°	23.0	16.8	19.9	22.4	19.3	16.2	13.1	15.6	16.2	15.6	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1209963

CATALOG NUMBER: ARCH1-30-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4	616.4
2.5°	618.9	625.2	640.1	653.1	662.5	670.6	674.9	676.8	681.1	681.8	680.5
5°	623.9	640.1	662.5	681.8	692.3	696.7	697.9	698.6	696.7	697.9	696.7
7.5°	637.0	657.5	689.2	706.0	707.9	701.0	701.7	699.2	701.7	704.2	704.2
10°	656.9	683.0	712.9	719.1	711.0	707.3	714.7	729.7	734.6	741.5	741.5
12.5°	683.0	714.1	735.3	729.7	722.2	734.6	756.4	771.3	776.3	778.8	776.9
15°	712.9	746.5	757.0	738.4	752.1	778.8	786.3	777.6	765.1	759.5	762.6
17.5°	750.8	778.8	772.6	760.1	791.2	795.0	770.7	742.7	722.8	715.4	720.3
20°	790.6	814.9	786.3	791.9	811.1	771.3	725.3	689.2	671.8	668.7	673.7
22.5°	832.9	848.5	800.0	828.6	800.0	719.1	663.7	645.1	640.7	645.7	650.0
25°	880.8	879.0	823.6	839.8	758.3	655.0	622.0	620.8	620.8	623.9	630.1
27.5°	934.9	905.7	847.2	824.8	686.1	602.1	595.9	596.5	594.7	595.3	598.4
30°	997.8	941.8	873.4	775.7	605.3	562.3	559.8	558.0	553.6	552.4	553.6
32.5°	1076.8	979.7	900.1	694.8	534.3	521.3	520.0	510.1	499.5	498.3	502.6
35°	1176.9	1048.8	913.8	593.4	475.9	475.2	470.9	455.3	441.7	441.7	438.5
37.5°	1291.4	1137.7	919.4	494.5	427.3	430.5	418.0	398.1	387.5	381.3	383.2
40°	1408.3	1239.1	918.8	408.1	385.0	385.7	376.3	352.1	326.0	310.4	314.1
42.5°	1520.9	1331.2	902.6	362.0	350.8	349.0	341.5	308.5	286.8	274.3	274.9
45°	1611.1	1426.4	877.7	334.7	319.7	322.8	306.0	286.1	266.2	255.0	254.4
47.5°	1701.3	1498.5	837.9	317.9	296.7	291.1	284.3	270.6	255.7	243.2	243.8
50°	1783.4	1560.1	800.6	306.7	275.6	261.3	262.5	254.4	241.4	230.2	229.5
52.5°	1841.3	1600.5	780.0	300.4	250.1	234.5	238.9	234.5	222.1	214.0	213.4
55°	1899.1	1631.6	786.9	292.4	222.1	209.6	217.1	215.9	209.0	206.5	207.1
57.5°	1945.8	1655.3	811.1	277.4	195.3	187.9	200.3	196.6	191.6	192.2	192.2
60°	1991.2	1685.7	839.8	243.2	172.3	172.9	184.7	177.9	174.8	180.4	181.0
62.5°	2038.4	1718.7	816.1	193.5	152.4	156.8	170.4	164.8	166.1	174.2	176.7
65°	2032.8	1715.6	665.0	158.6	135.0	143.7	164.2	162.4	163.0	166.1	167.3
67.5°	1918.4	1606.1	457.2	135.0	122.5	133.1	159.2	151.8	152.4	150.5	151.2
68°	1879.8	1567.6	403.1	131.3	120.1	130.6	156.8	149.9	150.5	148.7	148.0
70°	1669.6	1342.4	255.0	115.7	111.3	123.8	144.3	141.8	141.2	140.0	140.0
72.5°	1272.7	990.9	134.4	100.1	101.4	113.2	128.8	133.7	130.6	131.3	135.0
75°	842.9	595.9	93.3	85.8	89.0	97.0	114.5	124.4	121.3	123.2	121.3
77.5°	446.0	321.0	74.6	72.8	72.8	78.4	94.6	110.1	110.1	108.9	107.0
80°	146.2	113.2	59.7	57.2	58.5	61.6	75.9	90.2	92.1	89.6	88.3
82.5°	49.1	52.3	44.8	41.7	42.9	45.4	57.2	69.0	69.7	64.7	63.4
85°	30.5	34.8	28.0	27.4	27.4	28.0	34.8	37.9	34.8	31.1	32.3
87.5°	14.3	17.4	13.1	11.2	9.3	8.1	6.2	2.5	2.5	1.2	1.2
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)