

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: P1209919

Luminaire Tested: **ARCH1-20-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209919
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: ARCH1-20-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

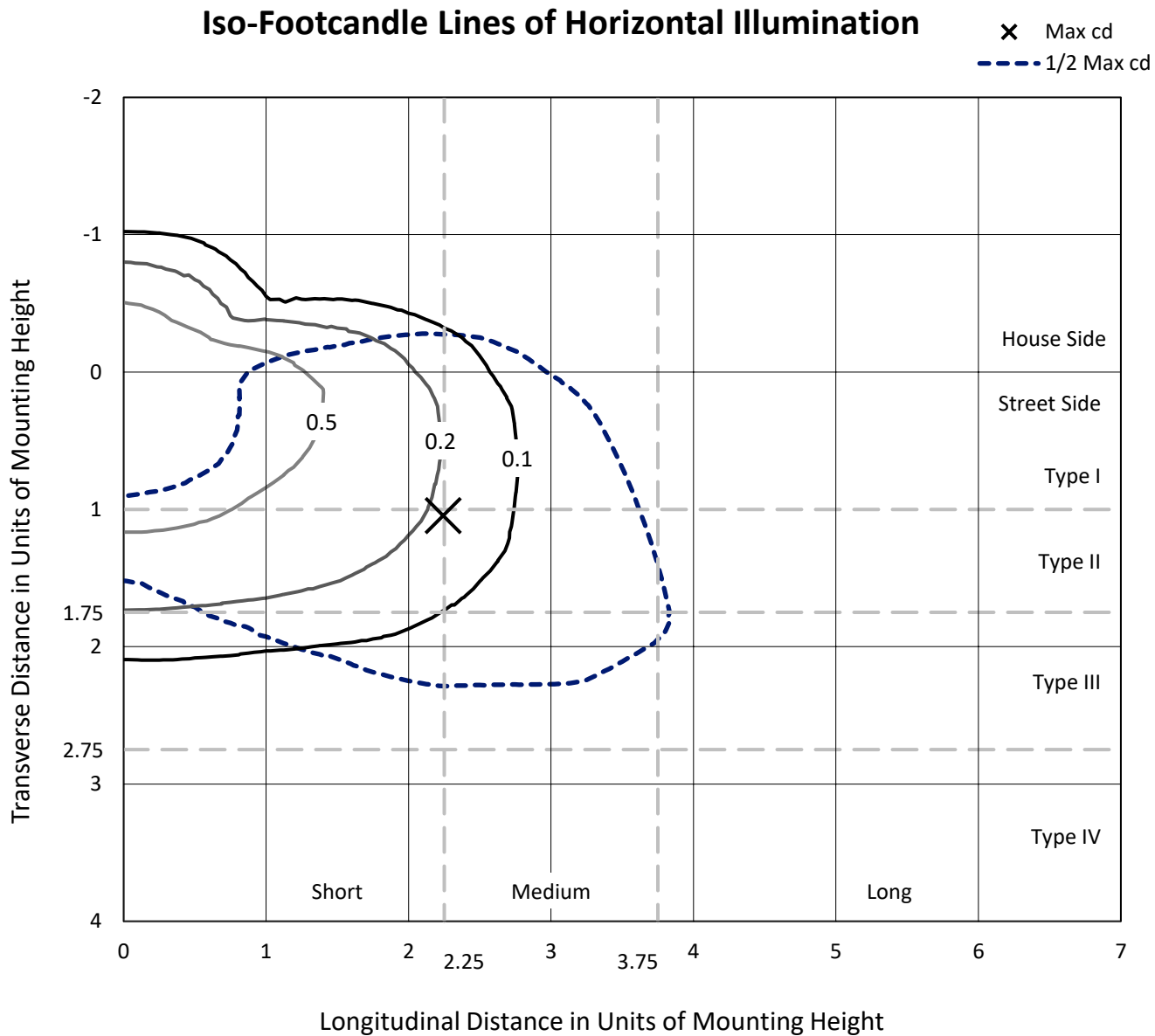
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494 lumens
Efficiency: N/A
Efficacy: 148.7 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): 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



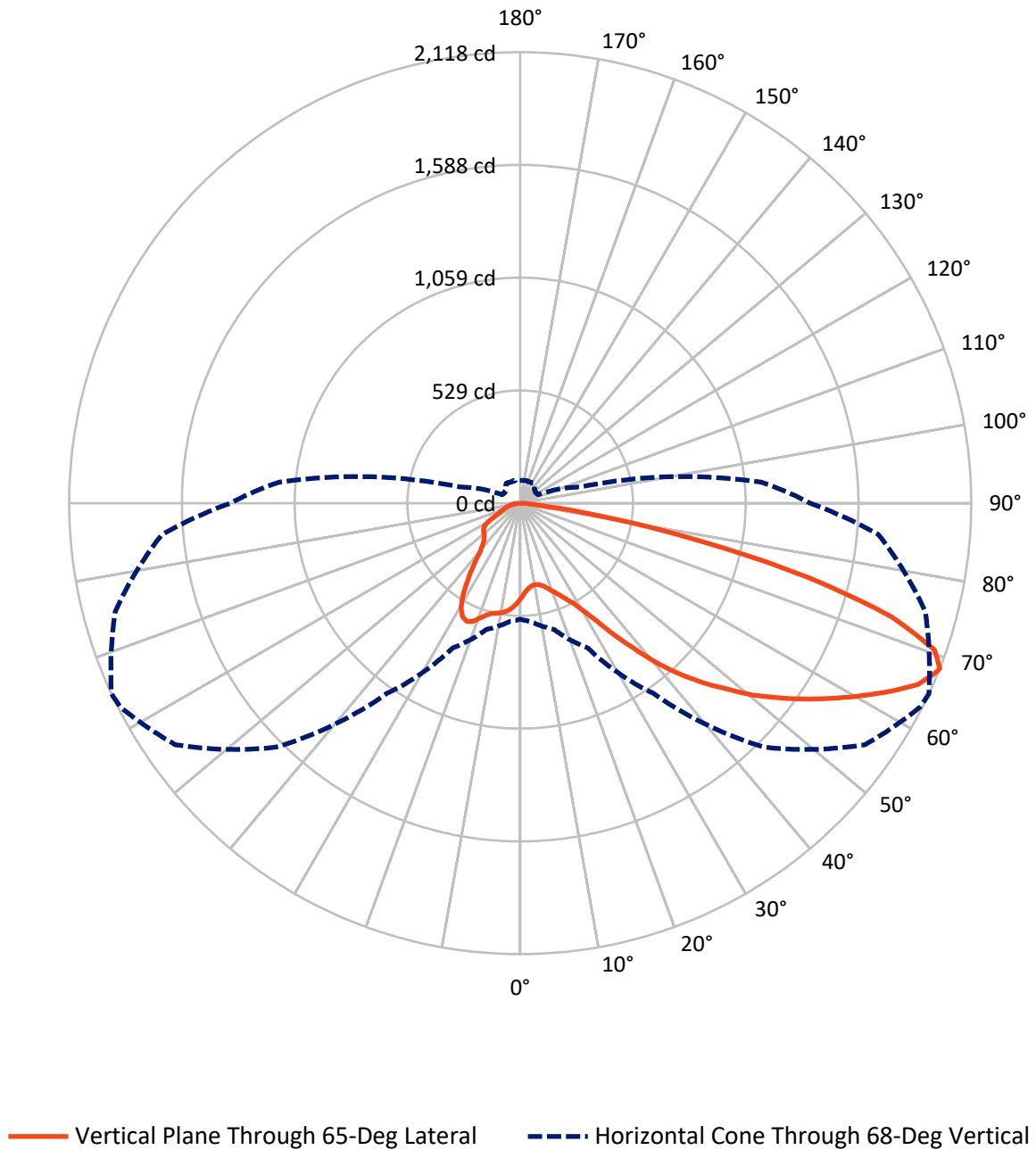
REPORT NUMBER: P1209919
CATALOG NUMBER: ARCH1-20-730-U-T3RE



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type III - Short - N/A

REPORT NUMBER: P1209919
CATALOG NUMBER: ARCH1-20-730-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1209919

CATALOG NUMBER: ARCH1-20-730-U-T3RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.6	0.0	856.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	2637.4	0.0	2637.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	3494.0	0.0	3494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.2
10°-20°	138.9	4.0
20°-30°	251.5	7.2
30°-40°	395.6	11.3
40°-50°	589.2	16.9
50°-60°	772.9	22.1
60°-70°	845.2	24.2
70°-80°	418.2	12.0
80°-90°	39.9	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°	3494.0	100.0
0°-180°	3494.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209919

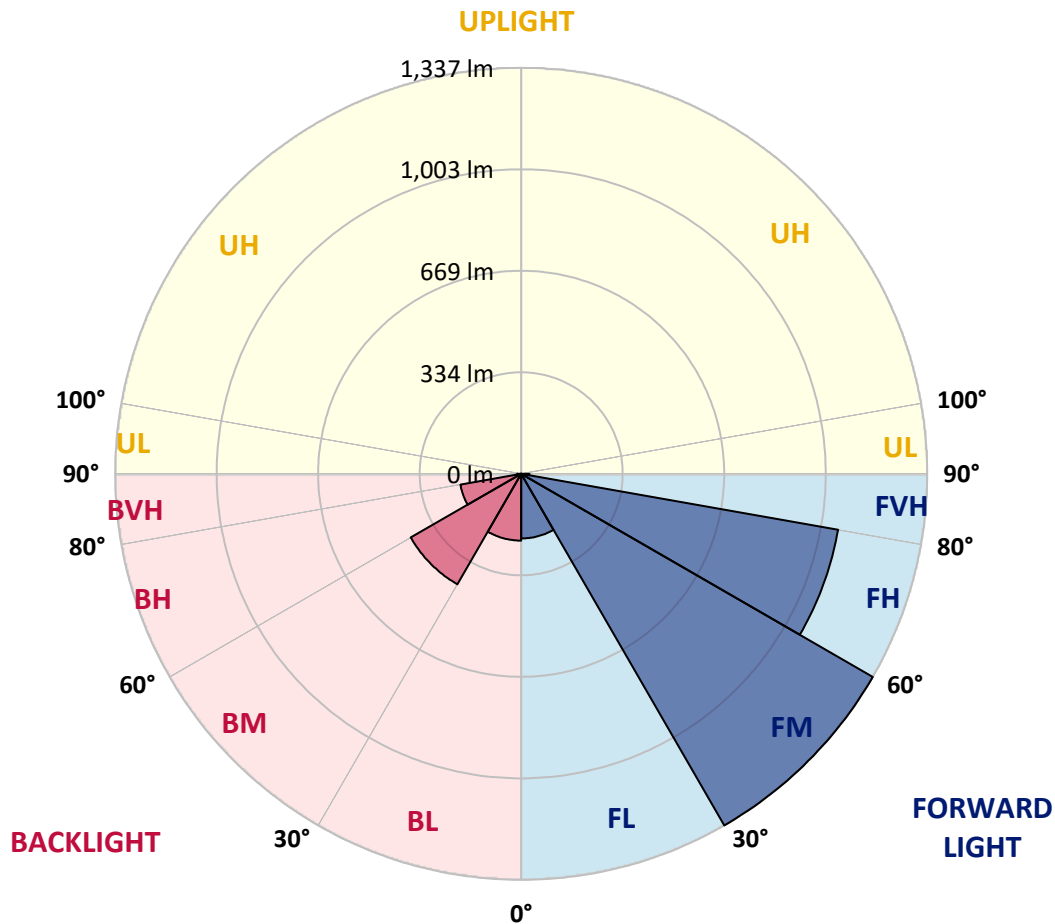
CATALOG NUMBER: ARCH1-20-730-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.0	6.1			
FM	(30°-60°)	1337.5	38.3			
FH	(60°-80°)	1060.1	30.3			G1/1800
FVH	(80°-90°)	26.8	0.8			G1/100
BL	(0°-30°)	220.1	6.3	B1/500		
BM	(30°-60°)	420.2	12.0	B1/1000		
BH	(60°-80°)	203.3	5.8	B1/500		G1/500
BVH	(80°-90°)	13.1	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: P1209919

CATALOG NUMBER: ARCH1-20-730-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	389.7	388.8	391.1	393.3	398.3	404.1	412.2	419.0	419.9	432.5	442.4
5°	366.7	365.4	367.6	370.3	372.6	379.8	388.4	398.3	402.3	420.8	442.0
7.5°	369.0	368.5	369.4	368.5	368.5	371.7	377.6	387.5	392.0	414.1	444.2
10°	382.1	383.0	383.4	380.7	378.0	376.7	378.5	385.2	388.4	414.5	454.1
12.5°	403.7	405.0	405.5	400.5	396.9	391.1	387.9	390.6	392.9	419.0	468.1
15°	433.0	433.9	430.7	427.6	418.6	411.3	403.7	401.4	402.3	428.5	483.9
17.5°	467.2	465.9	465.9	458.2	446.5	435.2	422.6	420.8	420.8	443.8	506.4
20°	504.6	506.0	501.9	491.5	479.8	462.3	449.6	441.5	442.4	461.4	533.9
22.5°	558.7	560.9	550.1	535.2	517.2	497.0	478.9	465.9	466.3	484.3	562.3
25°	616.8	617.7	610.9	591.1	566.8	538.0	514.1	497.4	497.0	510.0	598.8
27.5°	676.3	680.3	666.8	647.9	625.4	589.3	557.8	535.2	531.6	549.2	644.3
30°	737.5	742.5	729.4	711.0	683.0	652.4	615.0	588.9	586.6	610.0	705.1
32.5°	799.3	800.6	790.3	774.9	749.7	720.9	690.7	661.9	659.6	697.9	783.9
35°	849.7	853.8	846.6	843.0	824.5	797.9	768.6	752.0	757.8	806.9	886.2
37.5°	910.6	914.6	906.5	905.6	899.7	876.8	856.5	857.8	863.7	930.4	993.9
40°	998.4	1002.9	982.2	973.2	973.2	950.7	943.9	975.9	983.5	1052.0	1106.1
42.5°	1072.7	1080.0	1067.8	1061.9	1044.4	1028.6	1036.7	1081.8	1094.8	1168.3	1203.9
45°	1108.8	1114.2	1128.6	1145.7	1128.6	1101.1	1131.8	1182.7	1201.2	1275.5	1301.6
47.5°	1128.2	1133.1	1149.8	1195.7	1207.5	1184.5	1227.7	1291.3	1303.9	1381.8	1394.9
50°	1130.9	1146.6	1168.3	1214.2	1267.8	1271.0	1324.2	1401.6	1416.5	1486.4	1476.9
52.5°	1108.8	1115.1	1159.7	1237.2	1296.7	1350.7	1429.1	1507.5	1518.3	1584.6	1549.4
55°	1072.7	1081.8	1126.4	1231.8	1324.6	1426.4	1535.9	1611.6	1623.8	1680.1	1616.6
57.5°	1040.3	1044.8	1092.6	1216.0	1352.5	1502.1	1631.0	1720.2	1728.3	1763.9	1666.1
60°	1004.3	1009.2	1057.0	1182.2	1373.3	1559.3	1730.1	1829.7	1836.9	1852.2	1723.8
62.5°	911.0	924.1	984.0	1126.4	1367.9	1624.7	1836.0	1937.8	1946.8	1930.1	1769.3
65°	739.8	758.3	831.7	999.8	1317.4	1667.0	1922.5	2037.4	2052.7	1988.7	1781.5
67.5°	574.4	587.5	646.5	793.4	1140.3	1645.8	1978.3	2105.9	2110.4	1979.2	1713.9
68°	544.7	557.8	614.1	750.2	1091.2	1620.6	1977.0	2107.7	2117.6	1968.9	1687.7
70°	416.8	431.6	485.2	594.3	879.5	1460.2	1894.5	2064.4	2063.0	1843.6	1525.5
72.5°	260.4	269.0	305.9	374.9	581.7	1111.0	1608.0	1820.7	1824.3	1503.0	1170.1
75°	165.4	165.4	163.5	181.6	298.3	633.0	1195.3	1401.6	1404.4	1052.5	737.5
77.5°	143.7	139.7	120.3	101.8	118.9	246.0	707.4	905.1	890.3	566.8	350.1
80°	121.2	114.4	98.7	82.0	76.6	77.0	271.7	459.6	439.7	204.1	116.2
82.5°	87.4	81.5	74.3	64.4	59.0	46.0	56.8	132.9	129.8	59.0	37.8
85°	47.3	42.8	41.9	42.4	35.6	28.4	23.9	29.3	29.3	25.7	21.6
87.5°	16.7	12.2	14.4	16.2	14.0	11.7	9.5	11.3	11.7	11.3	10.4
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: P1209919

CATALOG NUMBER: ARCH1-20-730-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
2.5°	448.3	452.8	463.6	473.1	479.8	485.7	488.8	490.2	493.3	493.8	492.9
5°	451.9	463.6	479.8	493.8	501.5	504.6	505.5	506.0	504.6	505.5	504.6
7.5°	461.4	476.2	499.2	511.4	512.7	507.8	508.2	506.4	508.2	510.0	510.0
10°	475.8	494.7	516.3	520.8	515.0	512.3	517.7	528.5	532.1	537.1	537.1
12.5°	494.7	517.2	532.5	528.5	523.1	532.1	547.9	558.7	562.3	564.1	562.7
15°	516.3	540.7	548.3	534.8	544.7	564.1	569.5	563.2	554.2	550.1	552.4
17.5°	543.8	564.1	559.6	550.6	573.1	575.8	558.2	538.0	523.5	518.1	521.7
20°	572.6	590.2	569.5	573.5	587.5	558.7	525.3	499.2	486.6	484.3	487.9
22.5°	603.3	614.5	579.4	600.1	579.4	520.8	480.7	467.2	464.1	467.7	470.8
25°	638.0	636.6	596.5	608.2	549.2	474.4	450.5	449.6	449.6	451.9	456.4
27.5°	677.2	656.0	613.6	597.4	497.0	436.1	431.6	432.1	430.7	431.2	433.4
30°	722.7	682.1	632.6	561.8	438.4	407.3	405.5	404.1	401.0	400.1	401.0
32.5°	779.9	709.6	651.9	503.3	387.0	377.6	376.7	369.4	361.8	360.9	364.0
35°	852.4	759.6	661.9	429.8	344.7	344.2	341.1	329.8	319.9	319.9	317.6
37.5°	935.3	824.0	665.9	358.2	309.5	311.8	302.8	288.3	280.7	276.2	277.5
40°	1020.0	897.5	665.5	295.6	278.9	279.3	272.6	255.0	236.1	224.8	227.5
42.5°	1101.6	964.2	653.7	262.2	254.1	252.8	247.3	223.5	207.7	198.7	199.1
45°	1166.9	1033.1	635.7	242.4	231.6	233.8	221.7	207.3	192.8	184.7	184.3
47.5°	1232.2	1085.4	606.9	230.2	214.9	210.9	205.9	196.0	185.2	176.2	176.6
50°	1291.7	1130.0	579.9	222.1	199.6	189.2	190.1	184.3	174.8	166.7	166.3
52.5°	1333.6	1159.3	565.0	217.6	181.1	169.9	173.0	169.9	160.8	155.0	154.5
55°	1375.5	1181.8	569.9	211.8	160.8	151.8	157.2	156.3	151.4	149.6	150.0
57.5°	1409.3	1198.9	587.5	200.9	141.5	136.1	145.1	142.4	138.8	139.2	139.2
60°	1442.2	1221.0	608.2	176.2	124.8	125.3	133.8	128.9	126.6	130.7	131.1
62.5°	1476.4	1244.9	591.1	140.1	110.4	113.5	123.4	119.4	120.3	126.2	128.0
65°	1472.4	1242.6	481.6	114.9	97.8	104.1	118.9	117.6	118.0	120.3	121.2
67.5°	1389.5	1163.3	331.2	97.8	88.8	96.4	115.3	109.9	110.4	109.0	109.5
68°	1361.5	1135.4	292.0	95.1	87.0	94.6	113.5	108.6	109.0	107.7	107.2
70°	1209.3	972.3	184.7	83.8	80.6	89.7	104.5	102.7	102.3	101.4	101.4
72.5°	921.8	717.7	97.3	72.5	73.4	82.0	93.3	96.9	94.6	95.1	97.8
75°	610.5	431.6	67.6	62.2	64.4	70.3	82.9	90.1	87.9	89.2	87.9
77.5°	323.0	232.5	54.1	52.7	52.7	56.8	68.5	79.7	79.7	78.8	77.5
80°	105.9	82.0	43.3	41.5	42.4	44.6	55.0	65.3	66.7	64.9	64.0
82.5°	35.6	37.8	32.4	30.2	31.1	32.9	41.5	50.0	50.5	46.9	46.0
85°	22.1	25.2	20.3	19.8	19.8	20.3	25.2	27.5	25.2	22.5	23.4
87.5°	10.4	12.6	9.5	8.1	6.8	5.9	4.5	1.8	1.8	0.9	0.9
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)