

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: P798706

Luminaire Tested: **ARCH1-30-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825 lumens
Efficiency: N/A
Efficacy: 85.6 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

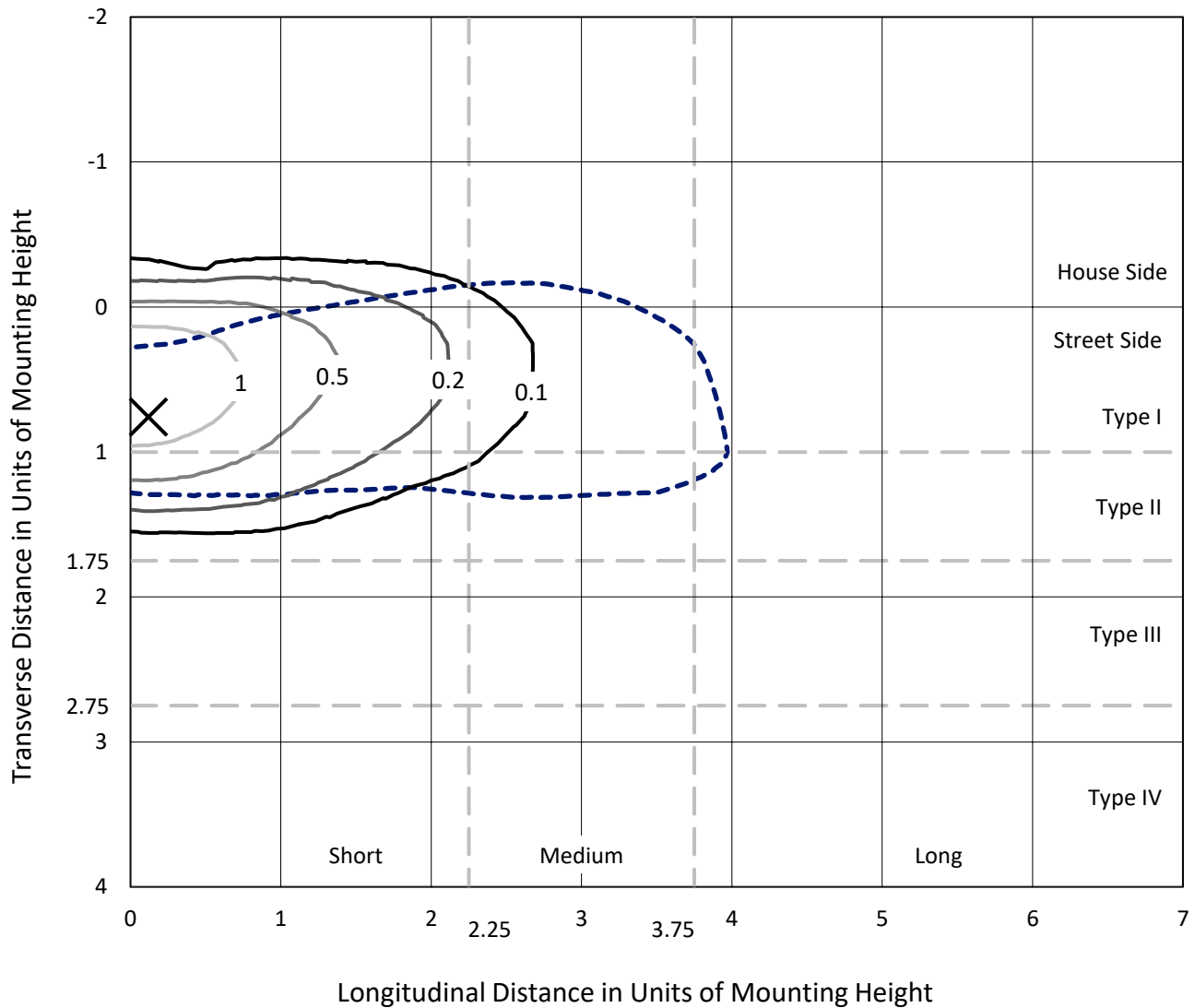


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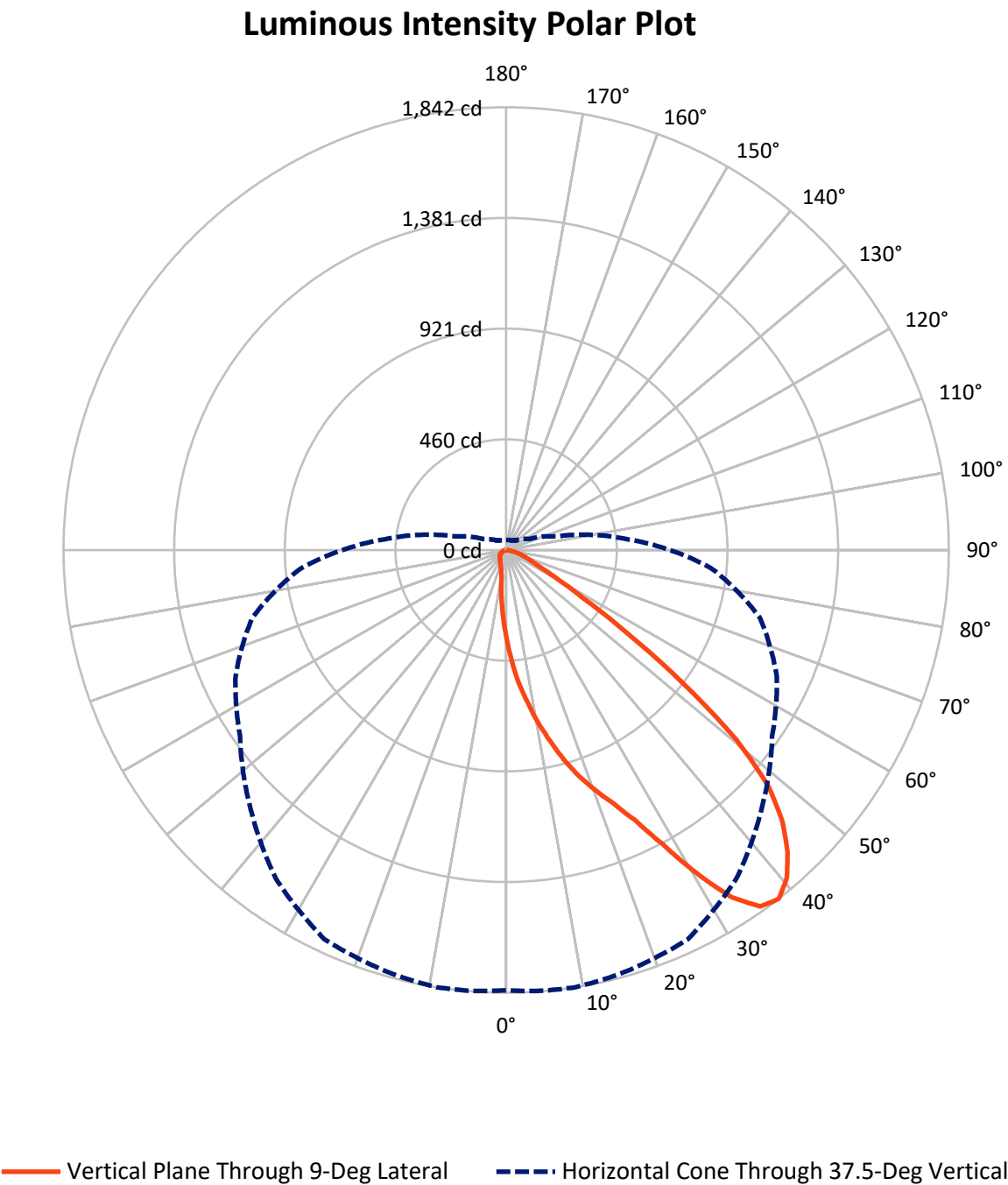
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.6	0.0	343.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2481.4	0.0	2481.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	2825.0	0.0	2825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.3
10°-20°	130.5	4.6
20°-30°	268.1	9.5
30°-40°	473.8	16.8
40°-50°	629.4	22.3
50°-60°	597.0	21.1
60°-70°	455.4	16.1
70°-80°	220.8	7.8
80°-90°	12.4	0.4
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°	2825.0	100.0
0°-180°	2825.0	100.0

Coefficient of Utilization



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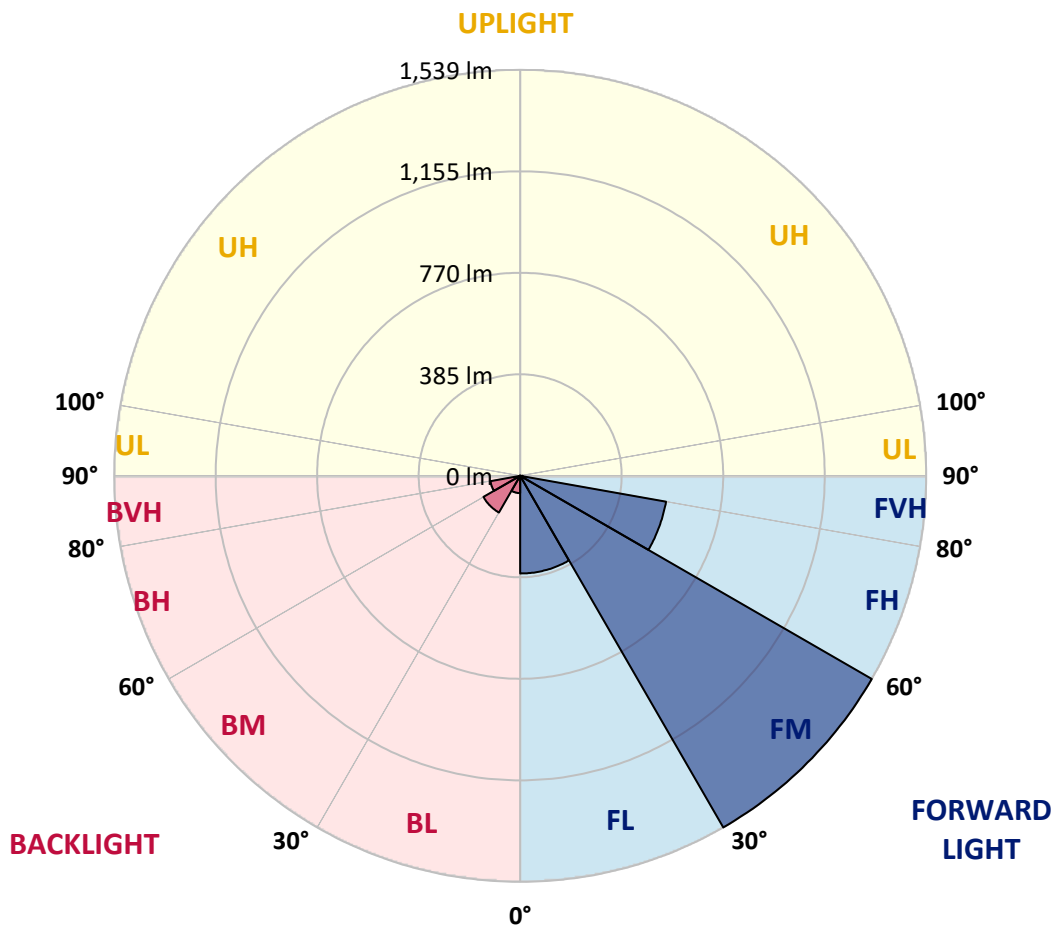
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.5	13.1			
FM	(30°-60°)	1539.5	54.5			
FH	(60°-80°)	561.6	19.9			G0/660
FVH	(80°-90°)	9.8	0.3			G0/10
BL	(0°-30°)	65.6	2.3	B0/110		
BM	(30°-60°)	160.8	5.7	B0/220		
BH	(60°-80°)	114.7	4.1	B1/500		G1/500
BVH	(80°-90°)	2.6	0.1			G0/10
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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	462.7	454.6	463.9	462.7	454.6	449.4	433.2	427.9	408.8	394.9	382.7
5°	557.8	549.7	557.8	555.5	543.9	531.2	504.5	487.1	452.9	422.7	395.5
7.5°	636.7	636.7	640.2	640.7	626.8	607.1	574.1	548.0	499.8	453.5	410.0
10°	721.9	722.5	730.0	724.8	706.3	679.6	637.8	604.8	546.8	485.9	423.9
12.5°	813.0	813.5	815.9	813.5	791.5	757.3	706.9	663.4	596.7	523.0	443.0
15°	904.0	904.6	907.5	903.4	879.1	839.1	781.7	728.3	649.4	564.8	466.2
17.5°	989.2	990.4	992.7	987.5	962.0	914.4	855.9	791.5	705.7	609.4	492.3
20°	1065.8	1066.9	1068.7	1061.7	1036.2	988.7	925.5	858.2	763.1	655.2	520.7
22.5°	1142.9	1144.1	1147.0	1137.7	1109.3	1054.8	992.7	923.1	824.0	705.7	553.8
25°	1241.5	1242.6	1245.0	1231.6	1192.8	1129.0	1063.5	992.1	890.1	762.5	594.4
27.5°	1385.9	1384.7	1384.7	1360.4	1293.7	1210.8	1134.8	1062.3	961.4	823.4	639.0
30°	1564.5	1561.6	1559.8	1526.8	1431.7	1302.9	1207.9	1127.8	1029.8	887.8	687.1
32.5°	1724.5	1724.5	1721.0	1686.2	1585.3	1427.0	1285.6	1191.6	1095.9	952.7	737.0
35°	1819.0	1823.1	1821.3	1795.3	1721.6	1560.4	1390.5	1268.2	1165.5	1020.6	796.7
37.5°	1831.8	1839.9	1841.6	1826.0	1787.1	1669.4	1507.1	1351.1	1242.1	1093.6	854.7
40°	1780.2	1797.6	1797.6	1795.3	1781.3	1721.0	1605.1	1447.3	1320.9	1169.6	913.3
42.5°	1700.7	1718.7	1716.4	1725.1	1721.6	1708.9	1660.1	1537.2	1399.8	1247.9	966.6
45°	1596.9	1615.5	1610.9	1626.5	1633.5	1647.4	1654.3	1599.8	1477.5	1333.1	1026.4
47.5°	1430.5	1461.8	1468.8	1496.6	1525.6	1569.1	1602.2	1622.5	1550.0	1424.7	1091.3
50°	1184.7	1228.7	1242.6	1301.2	1380.7	1470.5	1523.9	1594.6	1601.0	1518.7	1161.5
52.5°	848.3	899.4	920.8	1017.1	1180.6	1337.2	1433.4	1533.2	1620.7	1608.5	1237.4
55°	548.5	592.0	612.9	703.4	920.8	1166.7	1326.7	1453.7	1609.7	1690.9	1324.4
57.5°	338.1	363.0	376.9	454.6	654.7	948.1	1187.0	1380.7	1576.1	1762.2	1414.9
60°	227.9	242.4	249.3	285.9	444.8	708.6	995.0	1304.1	1532.0	1810.3	1497.2
62.5°	151.3	156.0	162.9	185.6	293.4	497.5	764.3	1167.3	1498.9	1813.2	1558.1
65°	117.1	119.5	122.4	132.2	180.9	347.9	537.5	945.8	1449.7	1751.8	1577.2
67.5°	92.2	94.5	98.0	103.2	131.0	236.0	365.9	692.9	1348.8	1655.5	1545.9
70°	72.5	74.2	76.5	81.2	102.1	171.1	241.8	460.4	1145.2	1563.9	1447.3
72.5°	57.4	59.1	61.5	66.1	82.9	125.3	165.8	287.0	883.1	1452.0	1257.7
75°	45.2	46.4	48.1	52.8	66.7	97.4	112.5	171.6	600.2	1247.3	980.0
77.5°	22.6	27.8	31.9	36.5	48.7	67.3	74.8	95.1	253.4	640.2	467.4
80°	13.3	16.2	17.4	20.3	31.9	40.6	40.6	38.3	80.0	245.9	190.8
82.5°	7.5	10.4	11.0	11.6	19.1	23.2	18.6	13.9	16.2	82.3	55.7
85°	2.3	3.5	4.1	4.6	6.4	7.0	6.4	5.8	4.6	8.1	5.2
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.2	1.2	1.7	1.7	1.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4	373.4
2.5°	375.8	368.2	353.7	340.4	327.6	318.3	309.6	301.5	295.7	291.1	290.5
5°	381.0	365.9	338.1	312.0	288.2	268.5	251.7	238.3	228.5	221.5	220.9
7.5°	387.9	364.7	322.4	283.6	248.2	219.8	195.4	177.4	164.7	159.5	155.4
10°	393.7	363.6	306.7	255.1	208.8	172.8	143.8	125.8	116.6	113.1	111.3
12.5°	403.6	364.7	293.4	229.0	174.5	132.2	110.2	100.3	96.3	93.4	92.8
15°	418.1	370.0	280.7	203.5	139.7	106.7	93.9	87.6	83.5	82.9	82.3
17.5°	432.6	374.6	269.1	177.4	116.0	92.8	84.1	78.9	76.0	75.4	75.4
20°	449.4	380.4	256.3	152.5	99.2	83.5	76.5	72.5	69.0	68.4	68.4
22.5°	469.1	388.5	244.1	130.5	88.1	76.5	70.7	66.1	63.2	62.6	62.6
25°	495.8	400.7	234.3	114.2	80.6	70.7	65.5	61.5	59.1	58.0	58.0
27.5°	525.4	417.5	227.3	104.4	75.4	66.1	60.9	57.4	55.1	53.9	53.9
30°	558.4	436.1	222.7	100.3	72.5	62.0	57.4	53.9	51.0	50.4	50.4
32.5°	594.9	457.5	219.8	100.9	71.9	59.1	53.9	50.4	48.1	47.0	47.0
35°	635.5	481.3	218.0	104.4	73.1	56.8	51.0	47.5	45.2	44.1	44.1
37.5°	680.8	509.1	218.0	107.9	76.0	56.2	48.1	44.6	42.9	41.8	41.8
40°	723.1	538.7	220.3	111.9	78.9	56.2	45.8	42.9	40.6	39.4	39.4
42.5°	756.1	555.5	222.1	116.0	80.6	55.7	43.5	40.6	38.9	37.7	37.7
45°	793.8	573.5	218.6	117.7	80.6	54.5	41.8	38.9	37.1	36.0	36.0
47.5°	835.6	595.5	218.0	118.9	78.9	52.2	40.0	37.1	36.0	34.8	34.8
50°	877.9	619.9	219.2	118.3	76.5	48.7	37.7	36.0	34.2	33.1	33.1
52.5°	926.0	645.4	221.5	117.1	71.3	44.6	36.0	34.2	32.5	31.3	30.7
55°	979.4	673.2	226.1	114.8	64.4	40.6	34.2	32.5	30.2	29.0	28.4
57.5°	1040.9	707.4	231.4	110.2	56.8	37.1	32.5	30.2	26.7	24.9	24.4
60°	1099.4	746.3	237.2	99.2	49.3	33.6	30.7	27.3	23.8	22.6	22.0
62.5°	1154.5	784.6	240.1	79.4	41.8	30.7	29.0	24.9	21.5	20.3	19.7
65°	1189.9	826.3	233.7	53.9	34.2	28.4	26.7	23.2	19.7	18.0	18.0
67.5°	1192.2	846.0	211.6	35.4	27.8	25.5	24.4	20.9	17.4	16.2	15.7
70°	1133.6	816.4	161.8	27.8	23.2	22.0	22.0	18.6	15.1	13.9	13.3
72.5°	999.1	723.1	103.2	22.6	19.7	18.6	18.6	15.7	13.3	11.6	11.0
75°	788.6	557.8	55.1	18.6	16.2	15.7	14.5	12.8	11.0	9.9	9.3
77.5°	362.4	245.9	25.5	13.3	12.2	12.2	11.0	9.3	8.7	7.5	7.5
80°	143.2	83.5	12.8	8.7	8.1	8.1	8.1	6.4	6.4	5.2	4.6
82.5°	39.4	17.4	6.4	5.2	5.2	5.2	4.6	4.1	4.1	3.5	3.5
85°	4.1	2.9	2.9	2.9	2.9	2.3	2.3	1.7	1.2	1.2	1.2
87.5°	1.7	1.7	1.7	1.7	1.7	1.2	0.6	0.0	0.0	0.0	0.0
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)