

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: P1209912

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

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
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-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

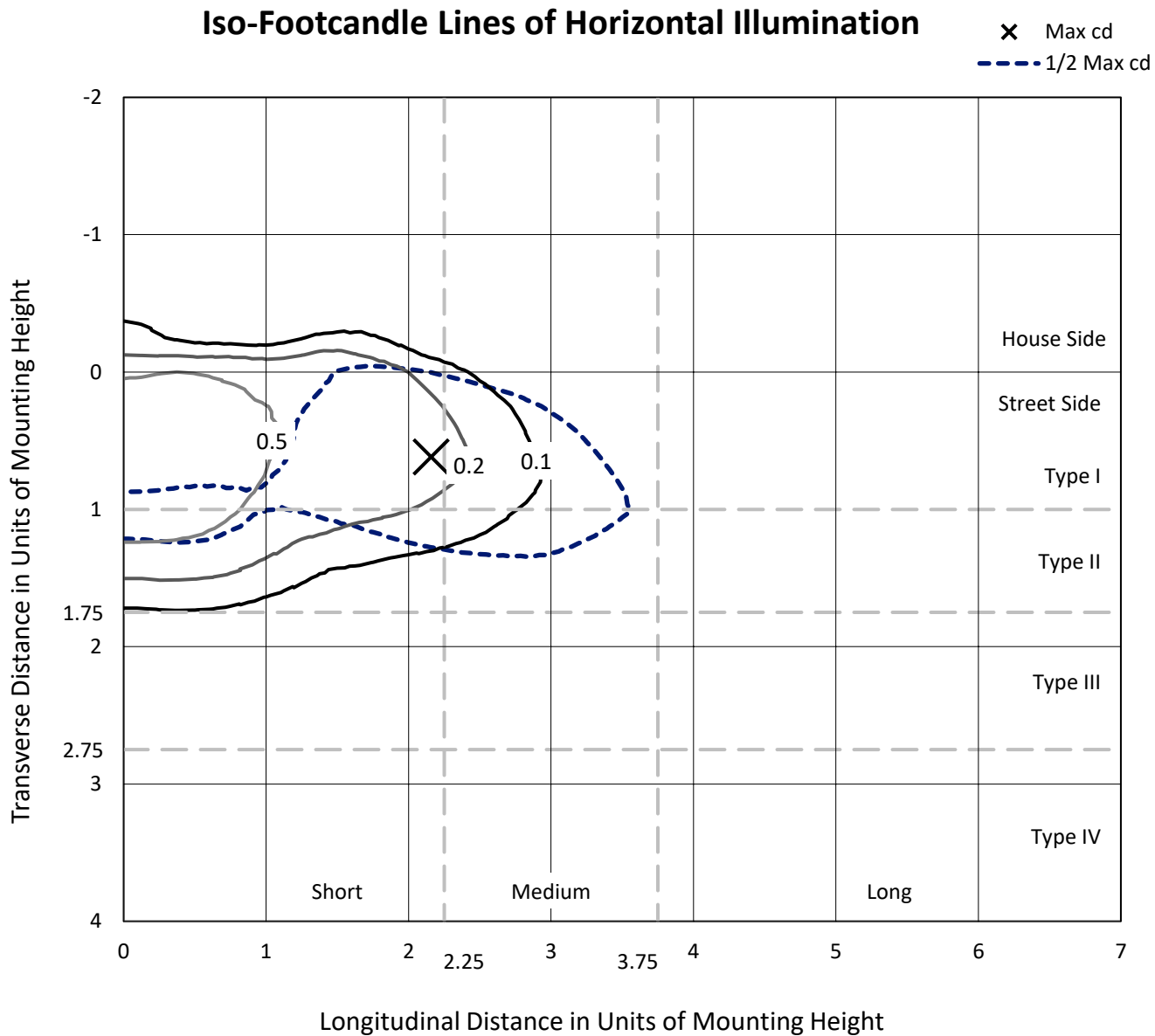
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2438 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - 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

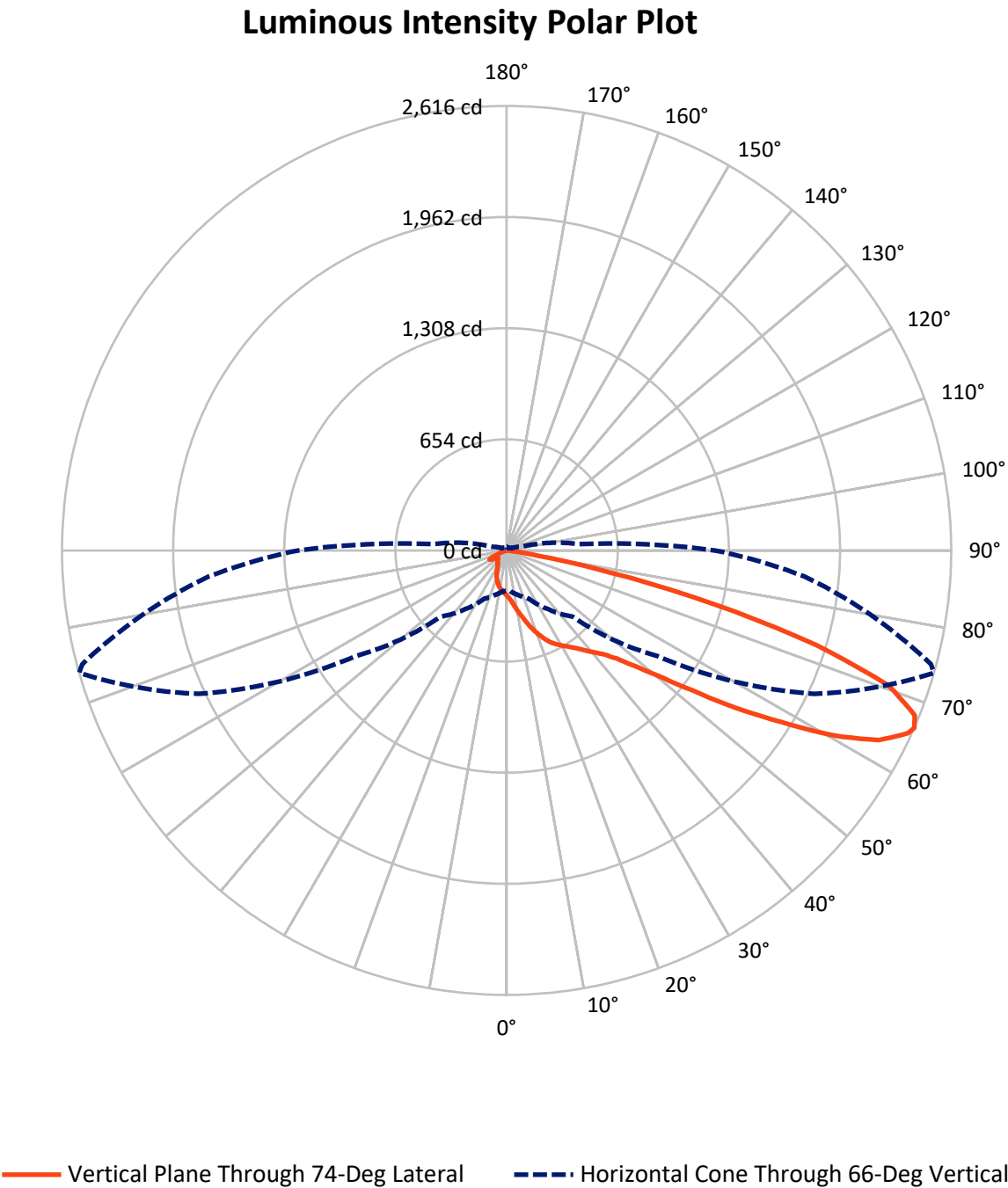


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Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.0	0.0	239.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2199.0	0.0	2199.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	2438.0	0.0	2438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.1
10°-20°	83.3	3.4
20°-30°	158.9	6.5
30°-40°	278.6	11.4
40°-50°	477.6	19.6
50°-60°	621.2	25.5
60°-70°	562.4	23.1
70°-80°	217.0	8.9
80°-90°	13.1	0.5
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°	2438.0	100.0
0°-180°	2438.0	100.0

Coefficient of Utilization



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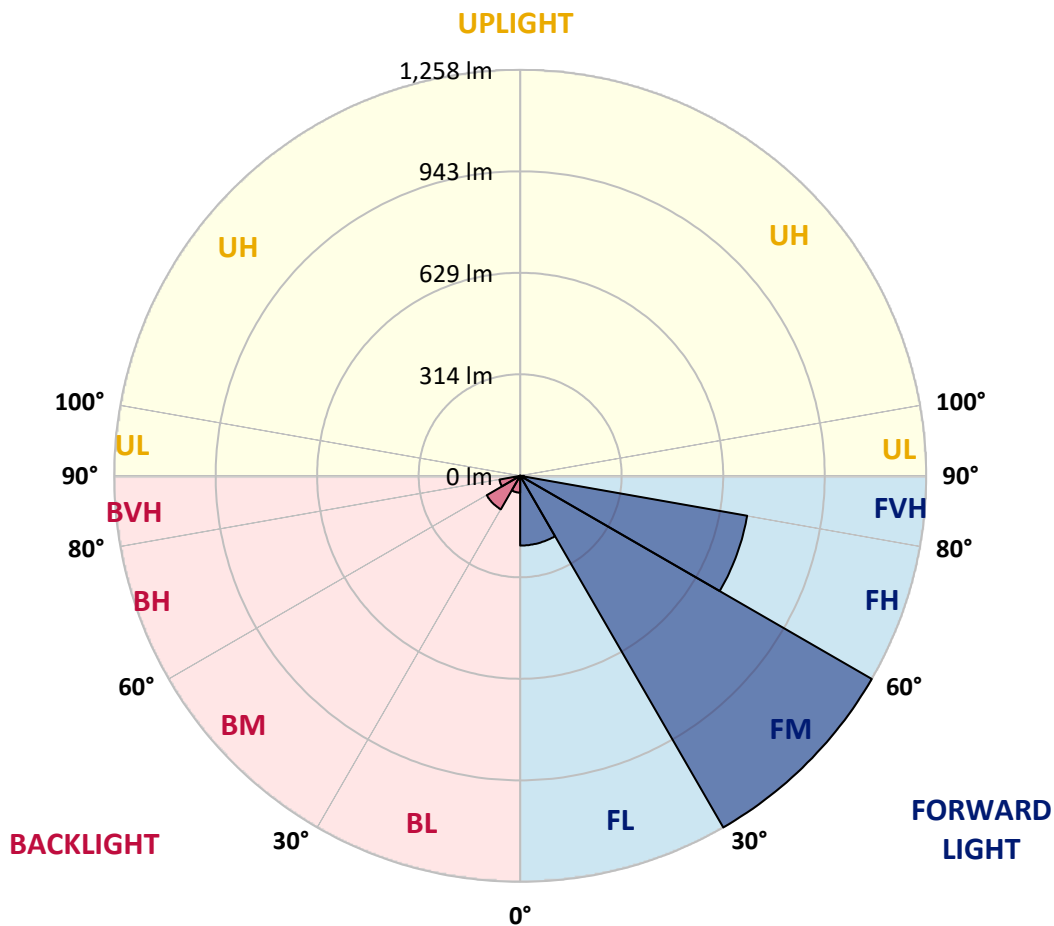
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.0	8.9			
FM	(30°-60°)	1257.6	51.6			
FH	(60°-80°)	714.0	29.3			G1/1800
FVH	(80°-90°)	11.3	0.5			G1/100
BL	(0°-30°)	52.1	2.1	B0/110		
BM	(30°-60°)	119.8	4.9	B0/220		
BH	(60°-80°)	65.3	2.7	B0/110		G0/110
BVH	(80°-90°)	1.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1
2.5°	319.5	316.9	312.1	311.7	307.7	302.9	294.6	285.8	279.7	278.8	271.4
5°	382.6	381.2	376.4	373.4	365.9	354.5	335.3	316.0	299.8	298.1	281.4
7.5°	399.2	400.1	400.9	404.0	401.4	396.1	381.7	354.5	329.2	325.2	296.3
10°	401.8	400.9	400.9	404.9	412.3	419.8	418.0	394.8	362.0	357.2	316.9
12.5°	430.3	431.6	428.5	426.8	425.5	429.4	442.5	432.5	396.6	392.6	341.9
15°	467.0	466.6	462.2	462.2	458.3	451.7	460.0	467.5	438.1	433.3	370.3
17.5°	493.7	495.5	495.1	497.7	496.4	487.6	483.2	498.6	481.0	474.9	402.7
20°	515.2	520.0	521.8	530.1	534.0	527.9	516.5	526.1	522.2	516.5	435.5
22.5°	537.9	541.9	545.0	559.4	570.3	569.0	554.6	552.4	562.0	556.8	467.9
25°	560.7	562.5	571.7	589.2	606.7	611.0	596.2	579.1	597.9	593.1	496.8
27.5°	585.7	586.5	597.5	618.9	643.4	652.6	640.8	609.3	625.5	625.5	523.1
30°	631.2	639.9	644.3	663.6	685.0	697.7	683.7	641.2	650.0	653.9	550.6
32.5°	729.2	730.5	729.2	737.5	741.9	749.4	733.2	677.1	675.0	679.3	577.8
35°	878.9	873.7	859.7	847.4	822.0	808.0	787.0	723.1	705.6	711.7	604.5
37.5°	1060.6	1053.1	1021.2	983.5	929.3	873.2	847.0	779.1	744.5	752.4	633.4
40°	1233.9	1229.1	1191.0	1144.6	1051.8	956.0	900.4	826.4	787.9	790.9	662.7
42.5°	1376.6	1375.7	1343.8	1295.2	1176.1	1045.3	963.4	872.8	833.4	838.2	693.3
45°	1484.7	1476.4	1452.8	1417.7	1296.5	1138.1	1039.6	943.3	906.5	912.2	739.3
47.5°	1484.7	1486.0	1501.4	1497.8	1380.5	1225.2	1122.7	1032.1	1014.6	1019.9	815.0
50°	1363.9	1376.2	1444.4	1501.8	1424.3	1293.0	1212.5	1143.3	1161.2	1169.1	947.2
52.5°	1124.9	1145.5	1264.1	1395.0	1391.9	1327.1	1305.3	1284.7	1365.2	1379.2	1142.4
55°	854.9	868.4	1022.9	1195.0	1251.0	1299.1	1386.2	1464.1	1635.3	1632.2	1340.7
57.5°	638.6	651.3	784.4	975.2	1049.2	1177.9	1427.8	1669.4	1903.2	1915.0	1526.7
60°	469.7	479.3	592.7	749.4	856.2	992.3	1411.2	1871.7	2211.8	2198.2	1690.9
62.5°	347.5	352.8	434.6	536.6	678.5	808.5	1306.6	2010.0	2458.2	2430.6	1782.4
65°	268.8	270.5	313.0	367.2	493.3	628.6	1150.7	2031.0	2594.3	2565.0	1780.6
66°	239.4	240.7	271.8	313.8	419.8	550.2	1082.5	1997.3	2615.8	2584.7	1758.7
67.5°	200.9	200.0	218.4	246.0	315.2	424.6	961.2	1898.8	2590.4	2574.6	1688.7
70°	148.8	149.3	158.5	165.0	184.3	235.1	694.2	1647.1	2387.3	2386.4	1496.5
72.5°	110.3	111.6	118.6	119.9	115.1	127.4	400.1	1310.1	1909.7	1910.2	1118.8
75°	82.7	84.9	87.1	88.0	83.6	80.5	180.8	881.6	1256.2	1247.0	633.4
77.5°	63.0	63.9	65.7	64.3	63.5	55.6	75.3	429.8	620.2	565.1	205.3
80°	46.0	46.0	47.7	46.0	45.5	39.8	41.1	137.9	182.1	151.4	44.2
82.5°	28.9	28.5	29.8	29.3	28.5	25.4	24.1	38.5	42.0	37.6	21.4
85°	16.2	15.8	15.3	14.9	13.6	11.4	13.1	14.4	19.3	19.7	15.3
87.5°	5.7	5.7	5.3	4.8	3.9	3.9	4.8	4.8	7.0	7.0	7.9
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°	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1	266.1
2.5°	267.9	263.1	256.1	246.9	240.3	233.7	226.7	222.8	217.1	215.8	217.5
5°	272.7	263.9	246.4	227.2	210.5	195.7	181.7	173.3	165.0	162.0	163.3
7.5°	282.8	267.9	238.1	207.0	179.5	157.1	140.5	130.9	123.4	120.4	121.2
10°	297.6	274.9	230.2	184.3	148.8	125.2	111.2	105.1	100.7	98.9	99.4
12.5°	315.6	285.0	220.2	161.5	122.6	102.0	95.4	94.1	93.2	92.4	92.8
15°	335.7	293.7	208.4	139.2	102.0	90.6	88.4	88.0	87.5	87.5	87.5
17.5°	356.7	301.6	195.2	118.2	88.9	83.6	82.3	82.3	82.3	82.7	82.7
20°	376.4	307.7	179.9	99.4	81.4	77.0	76.2	76.2	76.6	77.0	77.0
22.5°	395.7	310.3	162.0	86.2	75.3	71.3	70.0	70.0	70.0	70.5	70.5
25°	412.3	310.3	144.0	77.9	70.0	66.1	64.3	63.9	64.3	64.3	64.3
27.5°	426.3	309.0	126.5	72.2	64.8	60.8	59.1	58.7	59.5	60.0	60.0
30°	441.2	307.3	112.5	67.0	60.4	56.5	54.7	54.7	56.0	57.8	57.8
32.5°	455.7	308.6	101.5	62.6	56.0	53.0	51.2	51.6	54.3	56.9	56.9
35°	471.0	311.2	95.0	59.5	53.0	49.9	48.6	49.9	52.5	55.2	55.2
37.5°	486.3	314.3	91.0	56.9	50.3	47.3	46.4	48.1	51.2	53.8	54.3
40°	502.5	316.9	86.7	54.3	48.6	45.1	44.6	46.4	50.3	53.0	53.4
42.5°	522.6	322.2	81.4	52.1	46.8	42.5	42.9	44.2	48.1	52.1	52.5
45°	562.0	338.8	76.2	49.9	44.6	41.1	40.3	41.1	45.5	49.9	50.8
47.5°	636.0	376.4	70.5	47.7	42.5	40.3	36.8	37.6	41.6	46.4	46.8
50°	777.8	456.5	67.4	45.5	40.7	37.2	33.3	33.3	36.3	40.7	40.7
52.5°	998.9	600.1	69.2	43.8	38.5	34.1	30.2	29.8	31.5	34.6	34.6
55°	1237.4	757.7	75.7	42.0	35.9	32.4	28.0	25.8	27.1	28.9	28.9
57.5°	1426.5	836.9	93.7	41.1	32.8	31.1	25.4	22.3	23.6	25.4	25.4
60°	1509.7	790.5	113.8	42.0	30.6	28.9	22.8	19.7	21.9	23.6	24.1
62.5°	1442.3	650.9	122.1	39.8	27.6	25.8	22.3	18.4	21.0	22.3	22.8
65°	1296.5	494.6	95.4	34.6	25.4	22.3	20.1	17.5	19.7	21.0	21.0
66°	1227.3	431.1	81.4	32.0	24.5	21.0	19.3	17.5	19.3	20.1	20.6
67.5°	1120.1	340.1	60.4	28.0	22.8	19.3	17.9	16.6	18.4	19.3	19.3
70°	875.9	202.7	36.3	21.9	19.7	17.1	16.2	15.3	16.6	17.1	17.1
72.5°	548.5	96.3	23.2	16.2	16.6	16.2	13.6	14.4	14.9	15.3	15.3
75°	265.7	38.1	15.8	11.8	13.6	15.3	10.9	12.7	13.1	14.0	13.6
77.5°	74.0	18.4	10.1	8.8	11.8	11.8	8.3	10.1	11.8	14.9	13.6
80°	21.4	11.8	6.6	6.6	8.3	8.3	5.7	7.0	7.9	8.8	9.2
82.5°	14.9	7.9	4.4	4.8	4.8	5.3	3.5	3.5	4.4	4.4	4.8
85°	11.8	3.5	2.6	3.1	2.2	2.6	1.8	1.8	2.2	1.8	1.8
87.5°	4.8	1.8	1.8	1.8	1.3	1.3	0.9	0.4	0.4	0.4	0.4
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)