

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: P798738

Luminaire Tested: **ARCH1-30-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798738
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: ARCH1-30-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 3229 lumens
Efficiency: N/A
Efficacy: 97.8 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

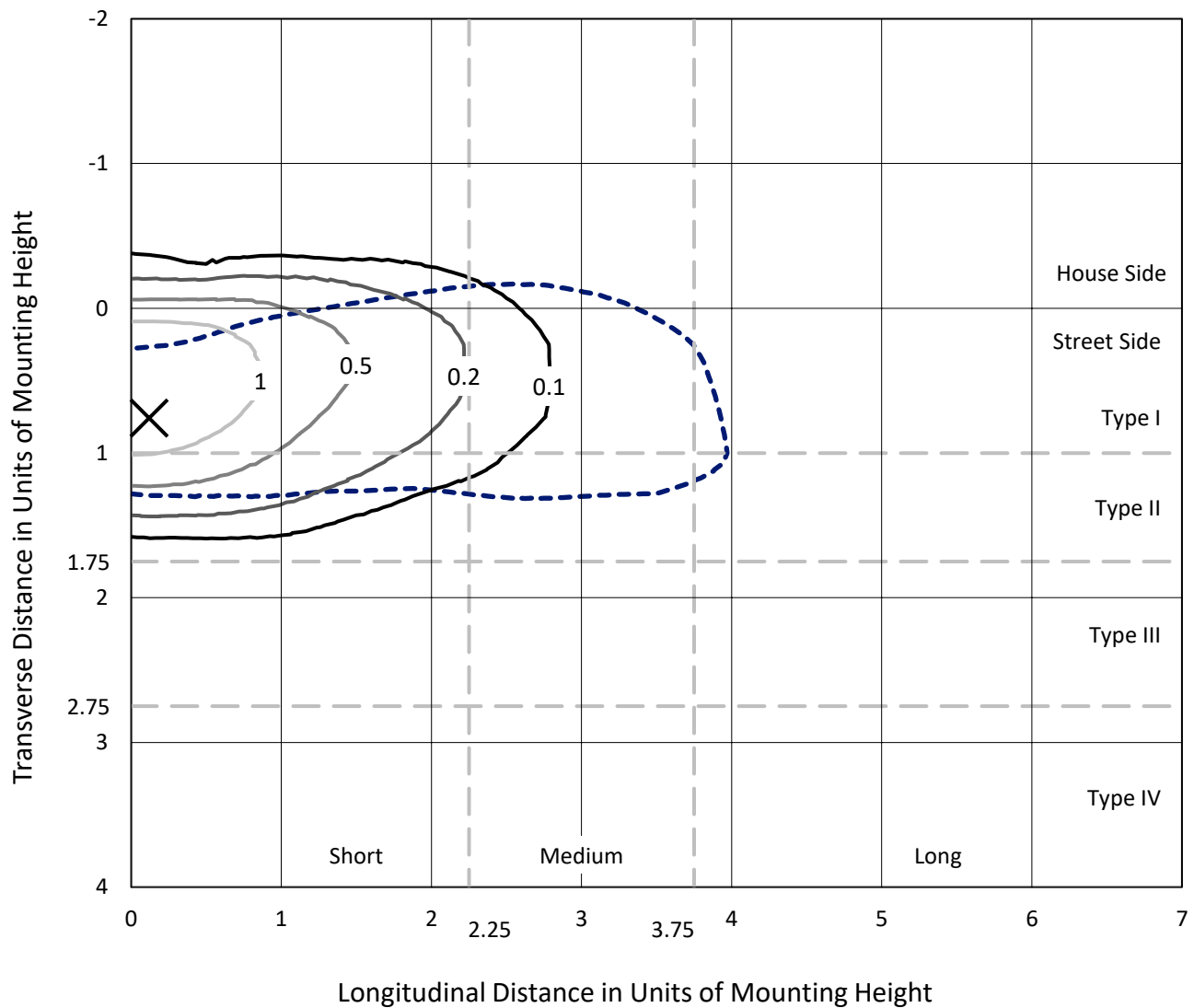


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

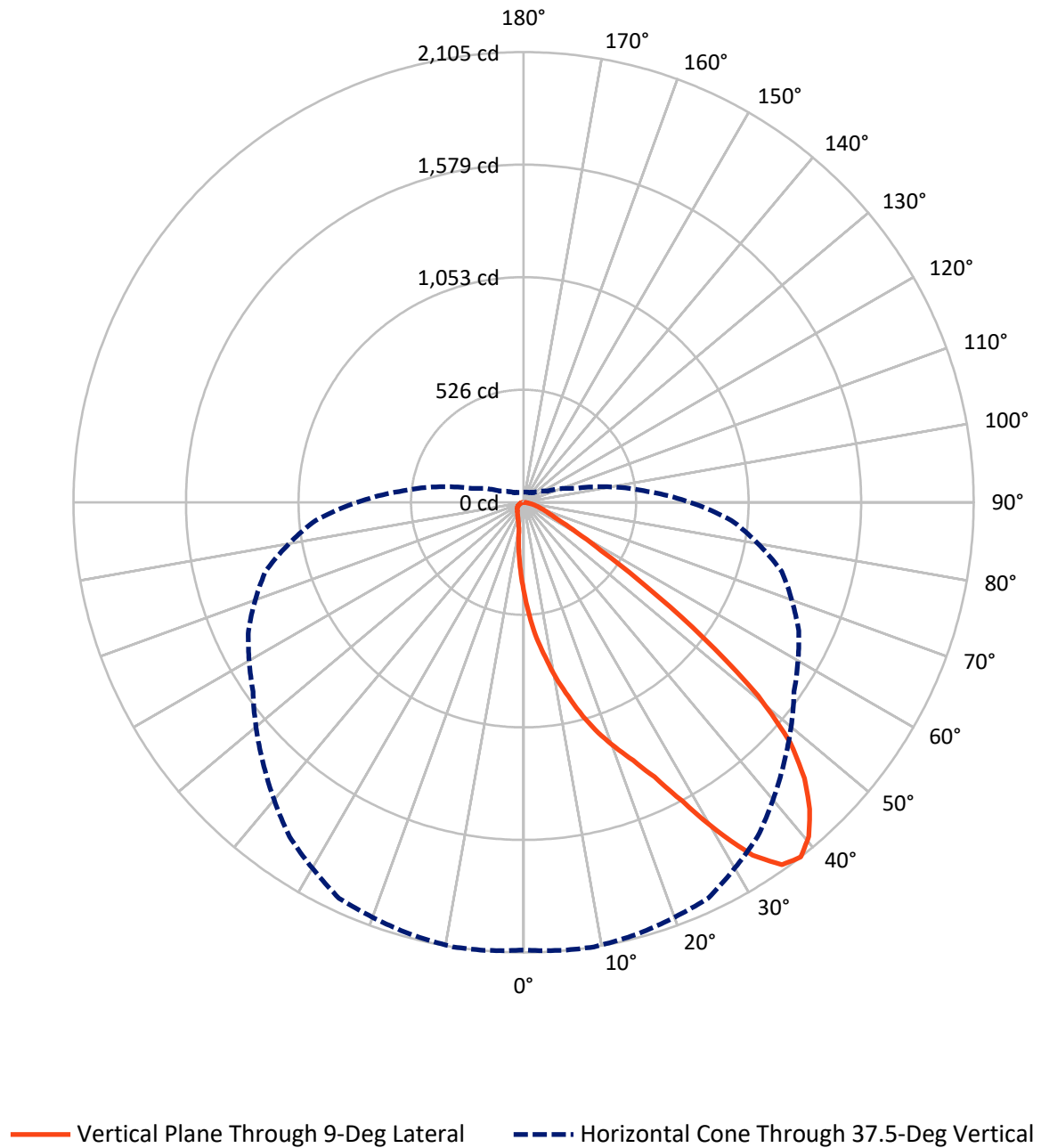


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	392.7	0.0	392.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2836.3	0.0	2836.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	3229.0	0.0	3229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.3
10°-20°	149.1	4.6
20°-30°	306.4	9.5
30°-40°	541.6	16.8
40°-50°	719.5	22.3
50°-60°	682.4	21.1
60°-70°	520.6	16.1
70°-80°	252.4	7.8
80°-90°	14.2	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°	3229.0	100.0
0°-180°	3229.0	100.0

Coefficient of Utilization



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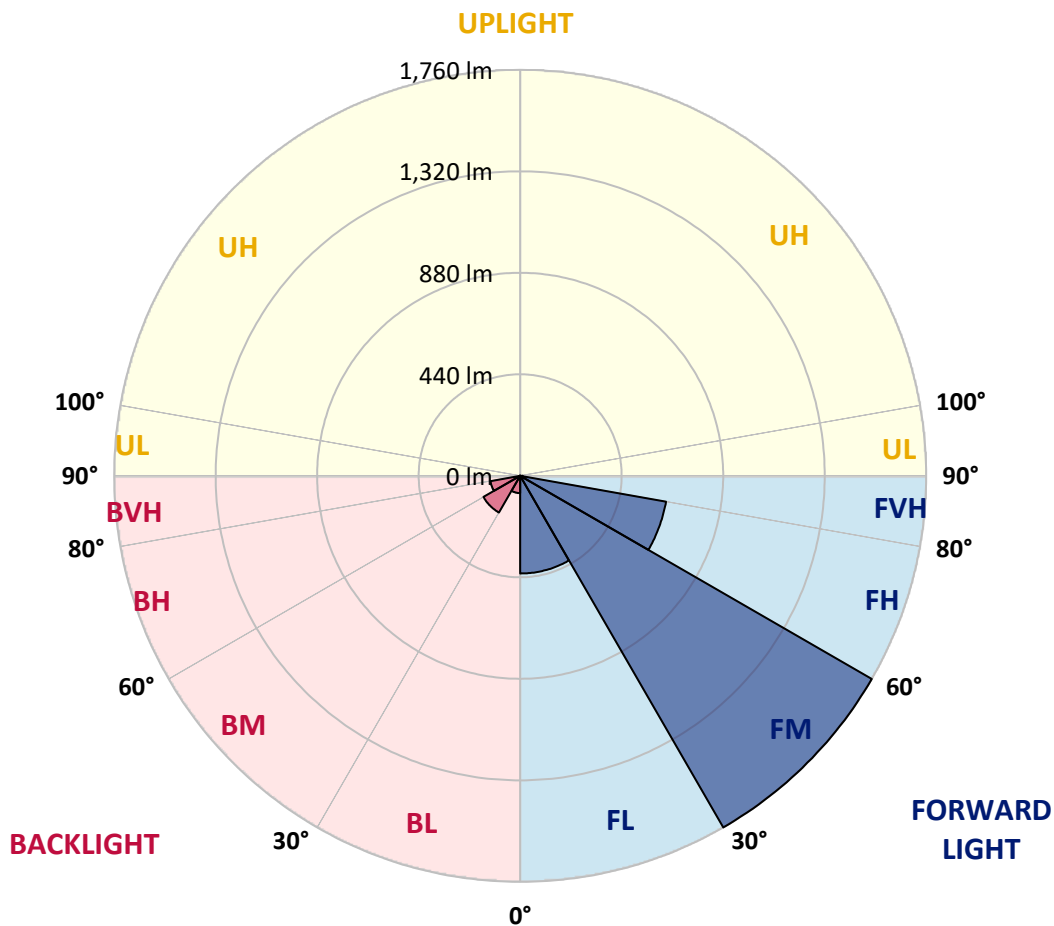
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.5	13.1			
FM	(30°-60°)	1759.7	54.5			
FH	(60°-80°)	641.9	19.9			G0/660
FVH	(80°-90°)	11.3	0.3			G1/100
BL	(0°-30°)	74.9	2.3	B0/110		
BM	(30°-60°)	183.8	5.7	B0/220		
BH	(60°-80°)	131.0	4.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8
2.5°	528.9	519.6	530.2	528.9	519.6	513.7	495.1	489.1	467.3	451.4	437.4
5°	637.6	628.3	637.6	634.9	621.7	607.1	576.6	556.7	517.6	483.2	452.0
7.5°	727.7	727.7	731.7	732.4	716.5	693.9	656.2	626.3	571.3	518.3	468.6
10°	825.2	825.8	834.4	828.5	807.3	776.8	729.1	691.3	625.0	555.4	484.5
12.5°	929.2	929.9	932.5	929.9	904.7	865.6	807.9	758.2	682.0	597.8	506.4
15°	1033.3	1033.9	1037.3	1032.6	1004.8	959.1	893.4	832.5	742.3	645.6	532.9
17.5°	1130.7	1132.0	1134.7	1128.7	1099.6	1045.2	978.3	904.7	806.6	696.6	562.7
20°	1218.2	1219.5	1221.5	1213.6	1184.4	1130.1	1057.8	980.9	872.2	748.9	595.2
22.5°	1306.4	1307.7	1311.0	1300.4	1267.9	1205.6	1134.7	1055.2	941.8	806.6	633.0
25°	1419.0	1420.4	1423.0	1407.8	1363.4	1290.4	1215.6	1134.0	1017.4	871.6	679.4
27.5°	1584.1	1582.7	1582.7	1554.9	1478.7	1383.9	1297.1	1214.2	1098.9	941.2	730.4
30°	1788.2	1784.9	1782.9	1745.1	1636.4	1489.3	1380.6	1289.1	1177.1	1014.7	785.4
32.5°	1971.1	1971.1	1967.2	1927.4	1812.1	1631.1	1469.4	1362.0	1252.7	1089.0	842.4
35°	2079.2	2083.8	2081.8	2052.0	1967.8	1783.6	1589.4	1449.5	1332.2	1166.5	910.7
37.5°	2093.7	2103.0	2105.0	2087.1	2042.7	1908.2	1722.6	1544.3	1419.7	1250.0	976.9
40°	2034.8	2054.6	2054.6	2052.0	2036.1	1967.2	1834.6	1654.3	1509.8	1336.8	1043.9
42.5°	1944.0	1964.5	1961.8	1971.8	1967.8	1953.2	1897.6	1757.0	1600.0	1426.3	1104.9
45°	1825.3	1846.5	1841.2	1859.1	1867.1	1883.0	1890.9	1828.6	1688.8	1523.7	1173.1
47.5°	1635.1	1670.9	1678.8	1710.7	1743.8	1793.5	1831.3	1854.5	1771.6	1628.5	1247.4
50°	1354.1	1404.4	1420.4	1487.3	1578.1	1680.8	1741.8	1822.7	1830.0	1735.8	1327.6
52.5°	969.7	1028.0	1052.5	1162.5	1349.4	1528.4	1638.4	1752.4	1852.5	1838.6	1414.4
55°	627.0	676.7	700.6	804.0	1052.5	1333.5	1516.5	1661.6	1839.9	1932.7	1513.8
57.5°	386.4	414.9	430.8	519.6	748.3	1083.7	1356.7	1578.1	1801.5	2014.2	1617.2
60°	260.5	277.0	285.0	326.8	508.4	809.9	1137.3	1490.6	1751.1	2069.2	1711.3
62.5°	173.0	178.3	186.2	212.1	335.4	568.7	873.6	1334.2	1713.3	2072.5	1780.9
65°	133.9	136.5	139.8	151.1	206.8	397.7	614.4	1081.0	1657.0	2002.3	1802.8
67.5°	105.4	108.0	112.0	118.0	149.8	269.8	418.2	792.0	1541.6	1892.3	1767.0
70°	82.8	84.8	87.5	92.8	116.7	195.5	276.4	526.3	1309.0	1787.5	1654.3
72.5°	65.6	67.6	70.3	75.6	94.8	143.2	189.6	328.1	1009.4	1659.6	1437.6
75°	51.7	53.0	55.0	60.3	76.2	111.3	128.6	196.2	686.0	1425.7	1120.1
77.5°	25.8	31.8	36.5	41.8	55.7	76.9	85.5	108.7	289.6	731.7	534.2
80°	15.2	18.6	19.9	23.2	36.5	46.4	46.4	43.7	91.5	281.0	218.1
82.5°	8.6	11.9	12.6	13.3	21.9	26.5	21.2	15.9	18.6	94.1	63.6
85°	2.7	4.0	4.6	5.3	7.3	8.0	7.3	6.6	5.3	9.3	6.0
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	1.3	1.3	2.0	2.0	2.0
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°	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8	426.8
2.5°	429.5	420.9	404.3	389.1	374.5	363.9	353.9	344.6	338.0	332.7	332.1
5°	435.5	418.2	386.4	356.6	329.4	306.9	287.6	272.4	261.1	253.2	252.5
7.5°	443.4	416.9	368.5	324.1	283.7	251.2	223.4	202.8	188.2	182.3	177.6
10°	450.0	415.6	350.6	291.6	238.6	197.5	164.4	143.8	133.2	129.2	127.3
12.5°	461.3	416.9	335.4	261.8	199.5	151.1	125.9	114.7	110.0	106.7	106.0
15°	477.9	422.9	320.8	232.6	159.7	122.0	107.4	100.1	95.4	94.8	94.1
17.5°	494.4	428.2	307.5	202.8	132.6	106.0	96.1	90.1	86.8	86.2	86.2
20°	513.7	434.8	293.0	174.3	113.3	95.4	87.5	82.8	78.9	78.2	78.2
22.5°	536.2	444.1	279.0	149.1	100.7	87.5	80.9	75.6	72.2	71.6	71.6
25°	566.7	458.0	267.8	130.6	92.1	80.9	74.9	70.3	67.6	66.3	66.3
27.5°	600.5	477.2	259.8	119.3	86.2	75.6	69.6	65.6	63.0	61.6	61.6
30°	638.3	498.4	254.5	114.7	82.8	70.9	65.6	61.6	58.3	57.7	57.7
32.5°	680.0	522.9	251.2	115.3	82.2	67.6	61.6	57.7	55.0	53.7	53.7
35°	726.4	550.1	249.2	119.3	83.5	65.0	58.3	54.3	51.7	50.4	50.4
37.5°	778.1	581.9	249.2	123.3	86.8	64.3	55.0	51.0	49.0	47.7	47.7
40°	826.5	615.7	251.9	127.9	90.1	64.3	52.4	49.0	46.4	45.1	45.1
42.5°	864.3	634.9	253.8	132.6	92.1	63.6	49.7	46.4	44.4	43.1	43.1
45°	907.4	655.5	249.9	134.5	92.1	62.3	47.7	44.4	42.4	41.1	41.1
47.5°	955.1	680.7	249.2	135.9	90.1	59.7	45.7	42.4	41.1	39.8	39.8
50°	1003.5	708.5	250.5	135.2	87.5	55.7	43.1	41.1	39.1	37.8	37.8
52.5°	1058.5	737.7	253.2	133.9	81.5	51.0	41.1	39.1	37.1	35.8	35.1
55°	1119.4	769.5	258.5	131.2	73.6	46.4	39.1	37.1	34.5	33.1	32.5
57.5°	1189.7	808.6	264.5	125.9	65.0	42.4	37.1	34.5	30.5	28.5	27.8
60°	1256.6	853.0	271.1	113.3	56.3	38.4	35.1	31.2	27.2	25.8	25.2
62.5°	1319.6	896.8	274.4	90.8	47.7	35.1	33.1	28.5	24.5	23.2	22.5
65°	1360.0	944.5	267.1	61.6	39.1	32.5	30.5	26.5	22.5	20.5	20.5
67.5°	1362.7	967.0	241.9	40.4	31.8	29.2	27.8	23.9	19.9	18.6	17.9
70°	1295.7	933.2	184.9	31.8	26.5	25.2	25.2	21.2	17.2	15.9	15.2
72.5°	1142.0	826.5	118.0	25.8	22.5	21.2	21.2	17.9	15.2	13.3	12.6
75°	901.4	637.6	63.0	21.2	18.6	17.9	16.6	14.6	12.6	11.3	10.6
77.5°	414.2	281.0	29.2	15.2	13.9	13.9	12.6	10.6	9.9	8.6	8.6
80°	163.7	95.4	14.6	9.9	9.3	9.3	9.3	7.3	7.3	6.0	5.3
82.5°	45.1	19.9	7.3	6.0	6.0	6.0	5.3	4.6	4.6	4.0	4.0
85°	4.6	3.3	3.3	3.3	3.3	2.7	2.7	2.0	1.3	1.3	1.3
87.5°	2.0	2.0	2.0	2.0	2.0	1.3	0.7	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)