

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: P798722

Luminaire Tested: **ARCH1-30-727-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798722
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: ARCH1-30-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 3116 lumens
Efficiency: N/A
Efficacy: 94.4 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

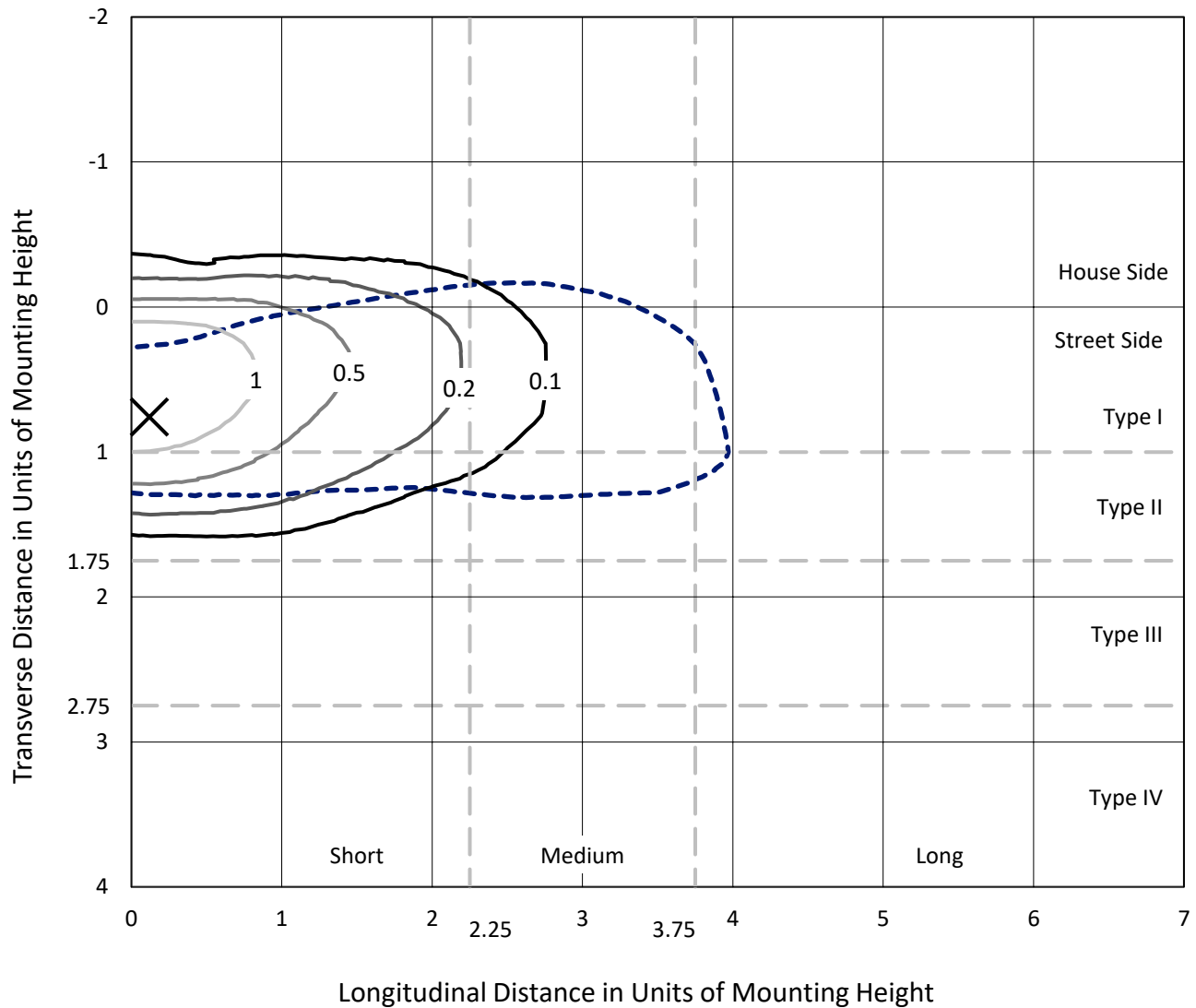


REPORT NUMBER: P798722

CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

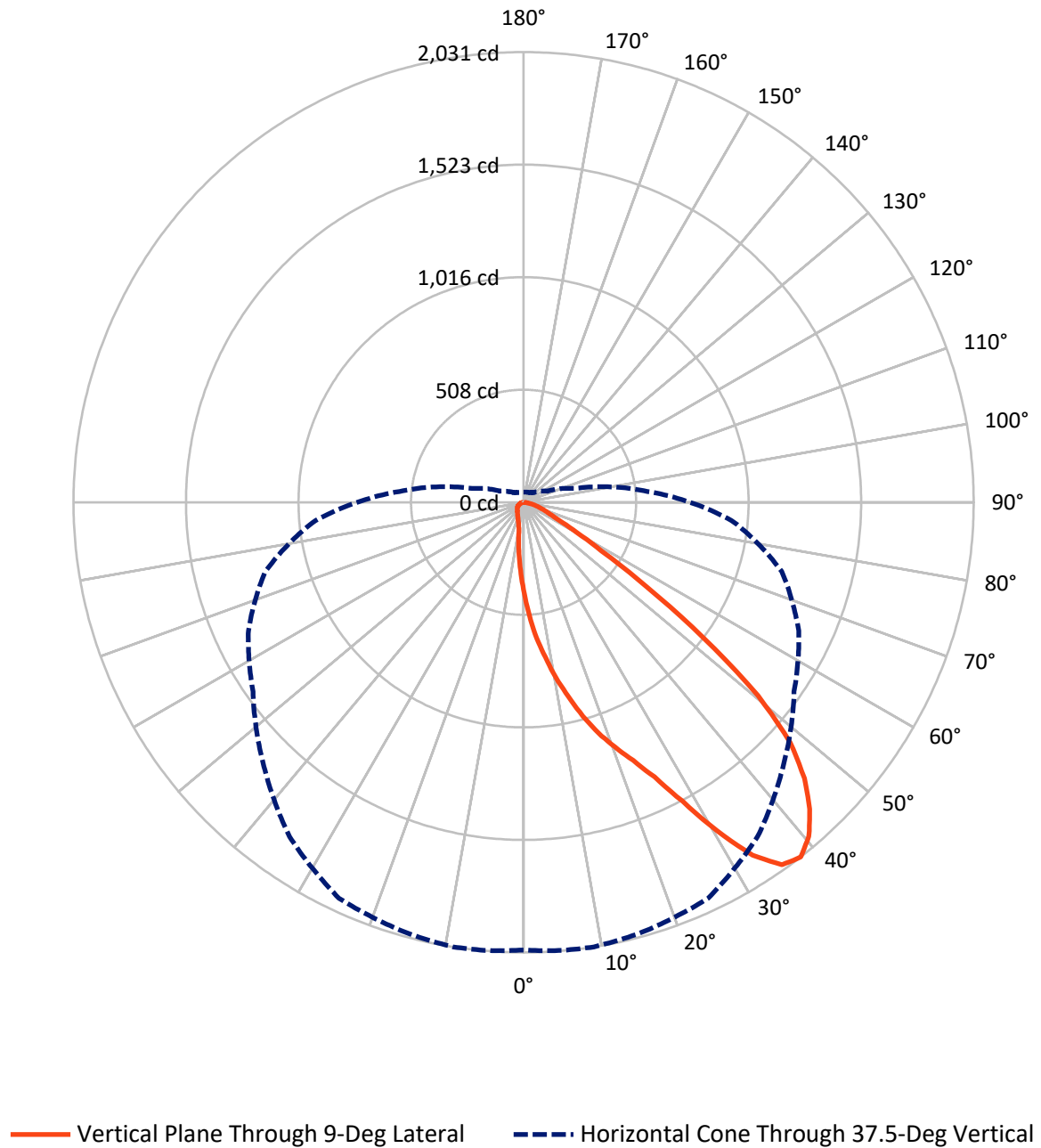


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

REPORT NUMBER: P798722

CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798722

CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	379.0	0.0	379.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2737.0	0.0	2737.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	3116.0	0.0	3116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	1.3
10°-20°	143.9	4.6
20°-30°	295.7	9.5
30°-40°	522.6	16.8
40°-50°	694.3	22.3
50°-60°	658.5	21.1
60°-70°	502.4	16.1
70°-80°	243.5	7.8
80°-90°	13.7	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°	3116.0	100.0
0°-180°	3116.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798722

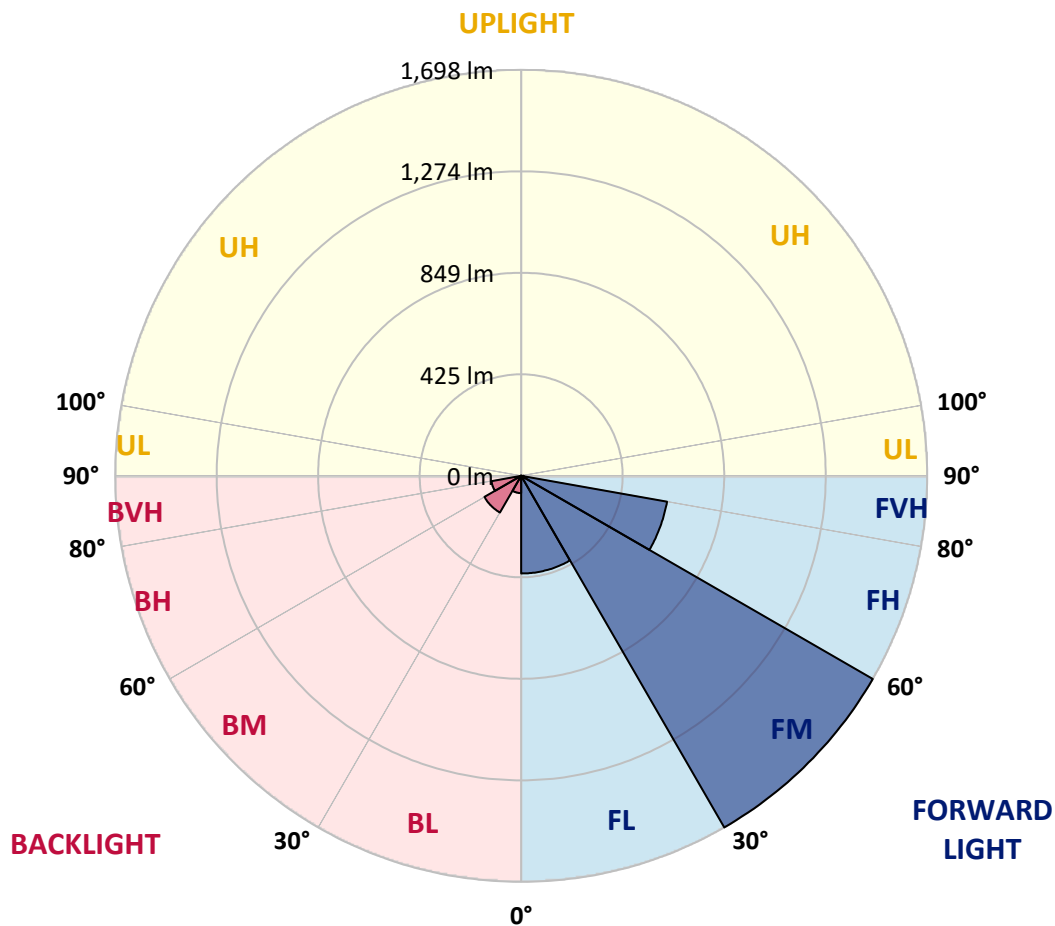
CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	408.7	13.1			
FM	(30°-60°)	1698.1	54.5			
FH	(60°-80°)	619.5	19.9			G0/660
FVH	(80°-90°)	10.9	0.3			G1/100
BL	(0°-30°)	72.3	2.3	B0/110		
BM	(30°-60°)	177.3	5.7	B0/220		
BH	(60°-80°)	126.5	4.1	B1/500		G1/500
BVH	(80°-90°)	2.9	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



REPORT NUMBER: P798722

CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9
2.5°	510.4	501.4	511.7	510.4	501.4	495.7	477.8	472.0	450.9	435.6	422.1
5°	615.3	606.3	615.3	612.7	599.9	585.9	556.4	537.3	499.5	466.3	436.2
7.5°	702.3	702.3	706.1	706.7	691.4	669.7	633.2	604.4	551.3	500.2	452.2
10°	796.3	796.9	805.2	799.5	779.0	749.6	703.6	667.1	603.1	536.0	467.5
12.5°	896.7	897.3	899.9	897.3	873.0	835.3	779.7	731.7	658.1	576.9	488.6
15°	997.1	997.8	1001.0	996.5	969.6	925.5	862.2	803.3	716.3	623.0	514.2
17.5°	1091.1	1092.4	1095.0	1089.2	1061.1	1008.6	944.0	873.0	778.4	672.2	543.0
20°	1175.6	1176.8	1178.8	1171.1	1143.0	1090.5	1020.8	946.6	841.7	722.7	574.4
22.5°	1260.6	1261.9	1265.1	1254.9	1223.5	1163.4	1095.0	1018.2	908.9	778.4	610.8
25°	1369.4	1370.6	1373.2	1358.5	1315.6	1245.3	1173.0	1094.3	981.8	841.1	655.6
27.5°	1528.6	1527.3	1527.3	1500.5	1426.9	1335.5	1251.7	1171.7	1060.4	908.2	704.8
30°	1725.6	1722.4	1720.5	1684.0	1579.2	1437.2	1332.3	1244.0	1135.9	979.2	757.9
32.5°	1902.1	1902.1	1898.3	1859.9	1748.6	1574.0	1418.0	1314.4	1208.8	1050.9	812.9
35°	2006.4	2010.9	2009.0	1980.2	1898.9	1721.1	1533.7	1398.8	1285.6	1125.7	878.8
37.5°	2020.5	2029.4	2031.3	2014.1	1971.2	1841.4	1662.3	1490.3	1370.0	1206.3	942.8
40°	1963.5	1982.7	1982.7	1980.2	1964.8	1898.3	1770.4	1596.4	1457.0	1290.1	1007.4
42.5°	1875.9	1895.8	1893.2	1902.8	1898.9	1884.9	1831.2	1695.6	1544.0	1376.4	1066.2
45°	1761.4	1781.9	1776.8	1794.1	1801.7	1817.1	1824.8	1764.6	1629.7	1470.4	1132.1
47.5°	1577.9	1612.4	1620.1	1650.8	1682.8	1730.7	1767.2	1789.6	1709.6	1571.5	1203.7
50°	1306.7	1355.3	1370.6	1435.2	1522.9	1622.0	1680.8	1758.9	1765.9	1675.1	1281.1
52.5°	935.7	992.0	1015.7	1121.8	1302.2	1474.9	1581.1	1691.1	1787.7	1774.2	1364.9
55°	605.1	653.0	676.0	775.8	1015.7	1286.9	1463.4	1603.5	1775.5	1865.1	1460.8
57.5°	372.9	400.4	415.7	501.4	722.1	1045.7	1309.2	1522.9	1738.4	1943.7	1560.6
60°	251.4	267.3	275.0	315.3	490.6	781.6	1097.5	1438.4	1689.8	1996.8	1651.4
62.5°	166.9	172.1	179.7	204.7	323.6	548.8	843.0	1287.5	1653.3	2000.0	1718.6
65°	129.2	131.8	135.0	145.8	199.6	383.8	592.9	1043.2	1599.0	1932.2	1739.7
67.5°	101.7	104.3	108.1	113.8	144.5	260.3	403.6	764.3	1487.7	1826.0	1705.2
70°	79.9	81.9	84.4	89.5	112.6	188.7	266.7	507.8	1263.2	1725.0	1596.4
72.5°	63.3	65.2	67.8	72.9	91.5	138.2	182.9	316.6	974.1	1601.5	1387.3
75°	49.9	51.2	53.1	58.2	73.6	107.5	124.1	189.3	662.0	1375.8	1080.9
77.5°	24.9	30.7	35.2	40.3	53.7	74.2	82.5	104.9	279.5	706.1	515.5
80°	14.7	17.9	19.2	22.4	35.2	44.8	44.8	42.2	88.3	271.2	210.4
82.5°	8.3	11.5	12.2	12.8	21.1	25.6	20.5	15.4	17.9	90.8	61.4
85°	2.6	3.8	4.5	5.1	7.0	7.7	7.0	6.4	5.1	9.0	5.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.3	1.3	1.3	1.9	1.9	1.9
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: P798722

CATALOG NUMBER: ARCH1-30-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9
2.5°	414.5	406.1	390.2	375.4	361.4	351.1	341.5	332.6	326.2	321.1	320.4
5°	420.2	403.6	372.9	344.1	317.9	296.1	277.6	262.9	252.0	244.3	243.7
7.5°	427.9	402.3	355.6	312.8	273.7	242.4	215.5	195.7	181.6	175.9	171.4
10°	434.3	401.0	338.3	281.4	230.3	190.6	158.6	138.8	128.6	124.7	122.8
12.5°	445.2	402.3	323.6	252.6	192.5	145.8	121.5	110.6	106.2	103.0	102.3
15°	461.1	408.1	309.6	224.5	154.1	117.7	103.6	96.6	92.1	91.5	90.8
17.5°	477.1	413.2	296.8	195.7	127.9	102.3	92.7	87.0	83.8	83.1	83.1
20°	495.7	419.6	282.7	168.2	109.4	92.1	84.4	79.9	76.1	75.5	75.5
22.5°	517.4	428.5	269.3	143.9	97.2	84.4	78.0	72.9	69.7	69.1	69.1
25°	546.9	442.0	258.4	126.0	88.9	78.0	72.3	67.8	65.2	64.0	64.0
27.5°	579.5	460.5	250.7	115.1	83.1	72.9	67.2	63.3	60.8	59.5	59.5
30°	615.9	481.0	245.6	110.6	79.9	68.4	63.3	59.5	56.3	55.6	55.6
32.5°	656.2	504.6	242.4	111.3	79.3	65.2	59.5	55.6	53.1	51.8	51.8
35°	701.0	530.9	240.5	115.1	80.6	62.7	56.3	52.4	49.9	48.6	48.6
37.5°	750.9	561.6	240.5	119.0	83.8	62.0	53.1	49.2	47.3	46.1	46.1
40°	797.6	594.2	243.0	123.4	87.0	62.0	50.5	47.3	44.8	43.5	43.5
42.5°	834.0	612.7	245.0	127.9	88.9	61.4	48.0	44.8	42.9	41.6	41.6
45°	875.6	632.6	241.1	129.8	88.9	60.1	46.1	42.9	40.9	39.7	39.7
47.5°	921.7	656.9	240.5	131.1	87.0	57.6	44.1	40.9	39.7	38.4	38.4
50°	968.3	683.7	241.8	130.5	84.4	53.7	41.6	39.7	37.7	36.5	36.5
52.5°	1021.4	711.9	244.3	129.2	78.7	49.2	39.7	37.7	35.8	34.5	33.9
55°	1080.3	742.6	249.4	126.6	71.0	44.8	37.7	35.8	33.3	32.0	31.3
57.5°	1148.1	780.3	255.2	121.5	62.7	40.9	35.8	33.3	29.4	27.5	26.9
60°	1212.7	823.2	261.6	109.4	54.4	37.1	33.9	30.1	26.2	24.9	24.3
62.5°	1273.4	865.4	264.8	87.6	46.1	33.9	32.0	27.5	23.7	22.4	21.7
65°	1312.4	911.4	257.8	59.5	37.7	31.3	29.4	25.6	21.7	19.8	19.8
67.5°	1315.0	933.2	233.5	39.0	30.7	28.1	26.9	23.0	19.2	17.9	17.3
70°	1250.4	900.5	178.4	30.7	25.6	24.3	24.3	20.5	16.6	15.4	14.7
72.5°	1102.0	797.6	113.8	24.9	21.7	20.5	20.5	17.3	14.7	12.8	12.2
75°	869.8	615.3	60.8	20.5	17.9	17.3	16.0	14.1	12.2	10.9	10.2
77.5°	399.7	271.2	28.1	14.7	13.4	13.4	12.2	10.2	9.6	8.3	8.3
80°	158.0	92.1	14.1	9.6	9.0	9.0	9.0	7.0	7.0	5.8	5.1
82.5°	43.5	19.2	7.0	5.8	5.8	5.8	5.1	4.5	4.5	3.8	3.8
85°	4.5	3.2	3.2	3.2	3.2	2.6	2.6	1.9	1.3	1.3	1.3
87.5°	1.9	1.9	1.9	1.9	1.9	1.3	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)