

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: P798870

Luminaire Tested: **ARCH1-40-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3903 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 43
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

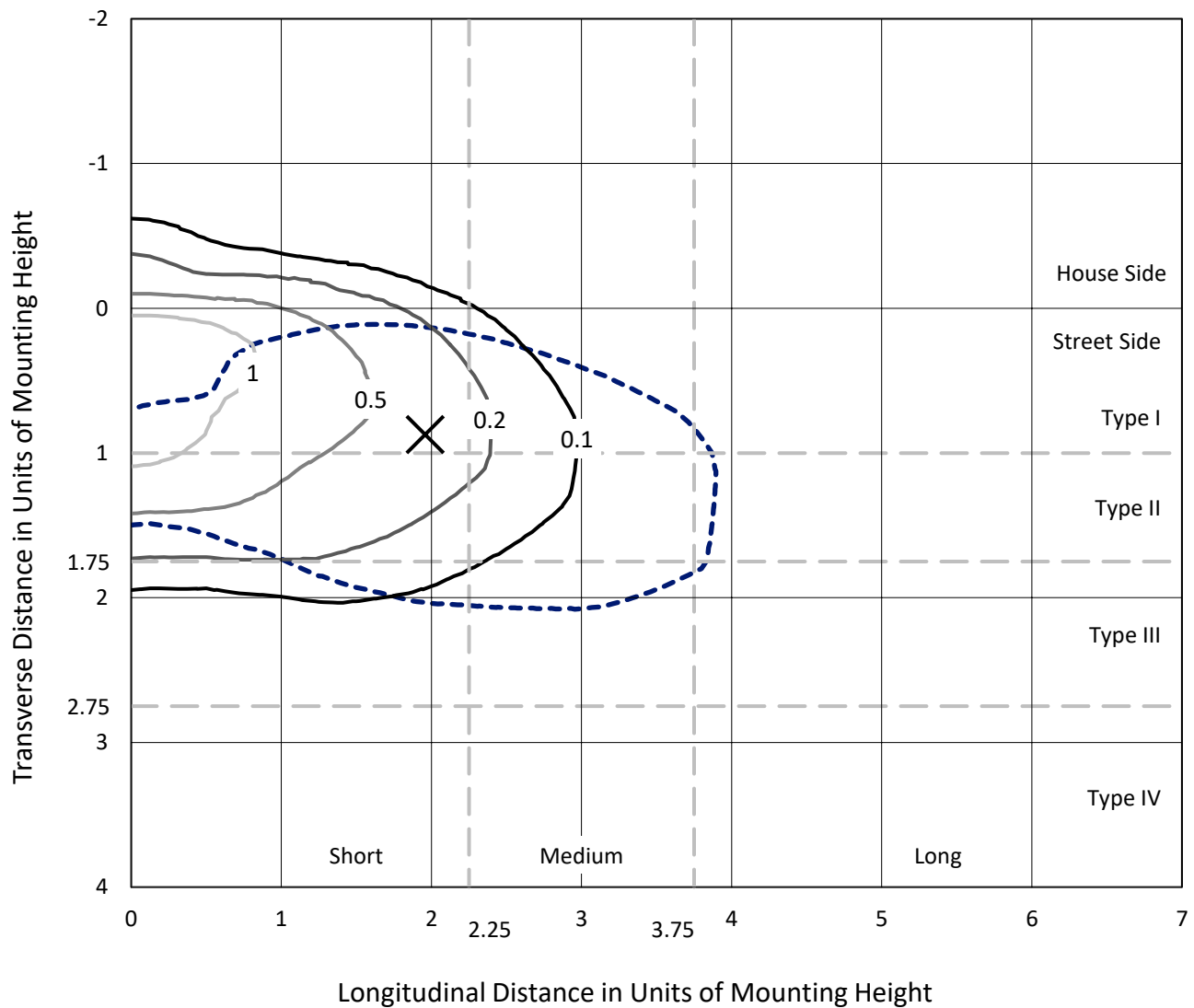


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

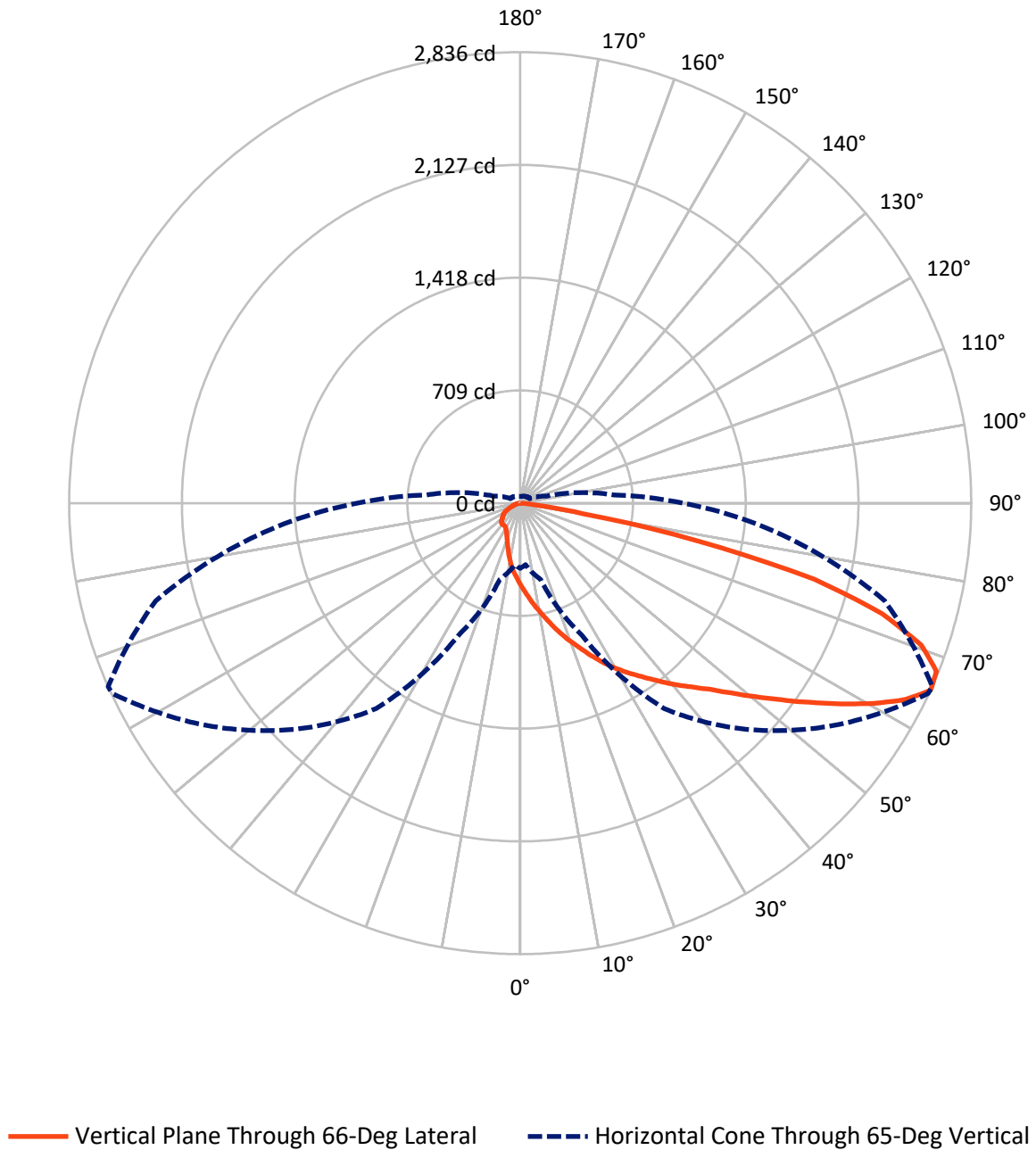


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	412.8	0.0	412.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3490.2	0.0	3490.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	3903.0	0.0	3903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	1.3
10°-20°	166.2	4.3
20°-30°	300.6	7.7
30°-40°	470.1	12.0
40°-50°	713.2	18.3
50°-60°	906.1	23.2
60°-70°	846.7	21.7
70°-80°	420.8	10.8
80°-90°	28.3	0.7
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°	3903.0	100.0
0°-180°	3903.0	100.0

Coefficient of Utilization



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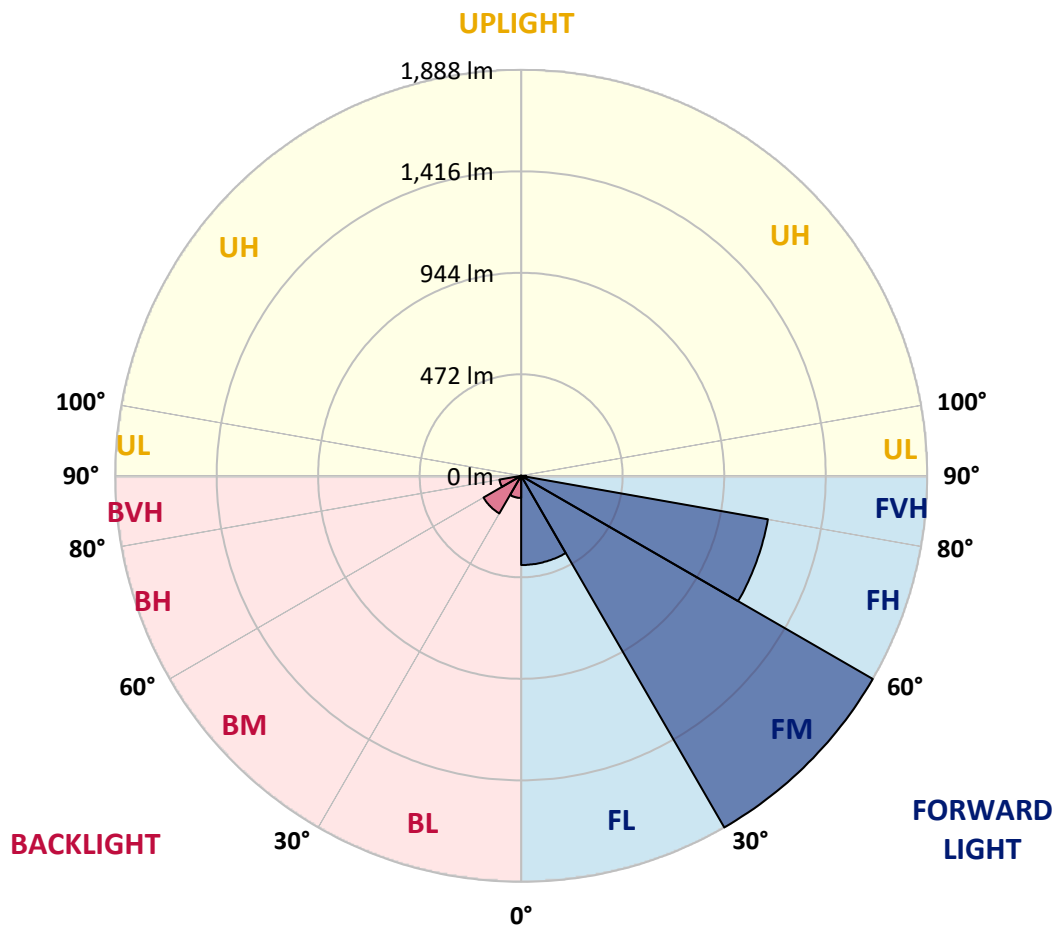
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.7	10.6			
FM	(30°-60°)	1887.5	48.4			
FH	(60°-80°)	1164.7	29.8			G1/1800
FVH	(80°-90°)	23.3	0.6			G1/100
BL	(0°-30°)	103.1	2.6	B0/110		
BM	(30°-60°)	201.9	5.2	B0/220		
BH	(60°-80°)	102.8	2.6	B0/110		G0/110
BVH	(80°-90°)	5.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5
2.5°	603.3	608.2	610.7	611.5	592.7	584.5	576.3	557.5	553.4	542.7	528.8
5°	709.7	716.3	714.6	711.4	688.4	662.3	641.0	605.8	600.0	574.7	543.6
7.5°	814.5	820.2	818.6	806.3	781.0	744.1	708.9	657.3	649.2	608.2	558.3
10°	902.1	907.0	906.2	893.9	863.6	818.6	776.0	707.3	697.5	639.3	570.6
12.5°	974.1	980.7	979.9	971.7	944.7	895.6	847.3	764.6	752.3	677.0	587.8
15°	1030.6	1038.8	1038.8	1035.5	1016.7	975.8	920.9	827.6	812.9	720.4	609.0
17.5°	1065.0	1071.6	1077.3	1083.0	1069.9	1038.8	988.9	890.6	875.1	762.9	631.1
20°	1083.0	1089.6	1093.7	1105.9	1108.4	1092.8	1053.5	952.9	936.5	811.2	656.5
22.5°	1112.5	1118.2	1119.0	1129.7	1134.6	1138.7	1114.1	1014.3	1001.2	864.4	685.2
25°	1161.6	1168.2	1165.7	1170.6	1171.4	1176.3	1173.9	1084.7	1071.6	925.0	719.6
27.5°	1224.6	1232.8	1231.2	1226.3	1218.9	1214.8	1225.5	1155.9	1143.6	985.6	754.8
30°	1292.6	1302.4	1299.9	1290.1	1270.5	1253.3	1268.0	1223.0	1211.5	1047.8	794.0
32.5°	1361.3	1372.8	1372.0	1355.6	1322.0	1292.6	1314.7	1286.0	1277.8	1114.9	836.6
35°	1406.4	1421.1	1419.5	1409.6	1366.3	1340.9	1367.9	1350.7	1345.0	1196.8	898.0
37.5°	1479.2	1494.8	1480.9	1456.3	1406.4	1393.3	1426.0	1423.6	1419.5	1283.6	962.7
40°	1656.0	1679.0	1642.1	1541.4	1459.6	1448.1	1494.8	1504.6	1500.5	1369.5	1020.8
42.5°	1841.0	1875.4	1818.1	1679.0	1556.2	1514.4	1570.1	1584.0	1579.1	1443.2	1073.2
45°	1953.2	1967.9	1910.6	1802.6	1727.3	1594.6	1650.3	1673.2	1669.1	1531.6	1140.3
47.5°	2044.9	2039.1	1973.7	1900.8	1914.7	1707.6	1741.2	1786.2	1782.9	1629.0	1214.0
50°	2064.5	2051.4	2025.2	1979.4	2016.2	1822.2	1837.0	1914.7	1911.4	1737.1	1288.5
52.5°	1926.2	1909.0	1980.2	2018.7	2006.4	1905.7	1942.6	2055.5	2053.9	1854.1	1359.7
55°	1580.7	1566.8	1758.4	1957.3	1995.8	1964.7	2059.6	2202.1	2211.1	1978.6	1424.4
57.5°	1243.5	1228.7	1417.0	1803.4	1956.5	2018.7	2196.3	2369.9	2381.3	2113.6	1485.8
60°	991.3	969.2	1113.3	1561.1	1882.8	2060.4	2328.1	2554.1	2555.7	2237.3	1523.4
62.5°	673.7	649.2	808.8	1254.1	1759.2	2067.0	2429.6	2712.9	2719.4	2329.8	1530.0
65°	409.3	388.8	496.9	916.0	1576.6	2011.3	2431.3	2829.9	2835.7	2372.3	1490.7
67.5°	237.4	229.2	284.1	570.6	1273.8	1861.5	2328.9	2811.9	2822.6	2354.3	1401.5
70°	138.3	137.5	158.0	282.4	898.8	1564.4	2100.5	2660.5	2676.0	2260.2	1264.7
72.5°	101.5	103.1	111.3	151.4	520.6	1126.4	1778.8	2355.9	2379.7	2076.0	1069.9
75°	80.2	81.0	88.4	103.1	273.4	636.9	1332.7	1891.0	1909.8	1747.7	835.8
77.5°	59.8	61.4	67.1	72.9	126.9	292.2	749.8	1164.9	1133.8	959.4	403.6
80°	43.4	47.5	49.9	52.4	67.1	113.0	225.1	406.0	402.8	419.1	190.7
82.5°	27.8	31.1	33.6	35.2	40.1	54.0	67.1	90.9	98.2	162.9	76.1
85°	12.3	13.9	15.6	18.8	17.2	18.8	27.8	18.0	15.6	24.6	13.9
87.5°	0.0	0.0	2.5	4.1	3.3	1.6	4.9	3.3	2.5	2.5	2.5
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°	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5	516.5
2.5°	521.5	512.4	493.6	475.6	465.0	451.1	438.8	427.3	426.5	423.2	417.5
5°	528.0	510.8	475.6	442.0	416.7	389.7	366.7	348.7	342.2	337.3	330.7
7.5°	534.5	507.5	455.1	406.0	365.9	328.3	301.2	276.7	269.3	262.8	258.7
10°	537.0	501.8	431.4	365.9	313.5	273.4	244.8	226.8	220.2	216.9	214.5
12.5°	544.4	498.5	409.3	328.3	267.7	230.8	210.4	199.7	197.3	194.8	192.4
15°	554.2	498.5	387.2	291.4	231.7	202.2	189.9	182.5	180.9	180.1	178.5
17.5°	564.8	498.5	365.9	260.3	205.5	183.4	174.4	170.3	169.5	168.6	167.8
20°	579.6	499.3	343.0	233.3	186.6	169.5	162.1	157.2	156.4	155.5	155.5
22.5°	594.3	501.0	320.9	212.8	174.4	158.8	149.8	144.9	143.3	143.3	143.3
25°	613.1	505.9	300.4	195.6	163.7	149.0	137.5	133.4	132.6	132.6	131.8
27.5°	635.2	511.6	282.4	182.5	153.1	137.5	126.1	122.0	120.3	120.3	119.5
30°	659.0	517.4	267.7	172.7	142.4	126.1	115.4	110.5	108.9	109.7	108.9
32.5°	685.2	525.5	256.2	166.2	132.6	116.2	106.4	100.7	99.9	99.9	99.1
35°	729.4	548.5	254.6	162.9	124.4	108.9	99.1	93.3	92.5	92.5	91.7
37.5°	776.9	574.7	262.0	161.3	117.9	102.3	93.3	87.6	86.8	86.8	86.8
40°	817.0	594.3	270.1	161.3	113.8	96.6	88.4	83.5	83.5	83.5	83.5
42.5°	844.0	595.9	268.5	161.3	110.5	92.5	85.1	80.2	80.2	81.0	80.2
45°	884.1	604.1	262.0	158.8	108.1	89.2	81.9	77.8	76.9	77.8	77.8
47.5°	931.6	618.9	255.4	149.0	107.2	86.0	79.4	74.5	73.7	74.5	73.7
50°	976.6	632.0	252.1	135.9	105.6	82.7	76.1	71.2	70.4	71.2	70.4
52.5°	1014.3	637.7	246.4	126.9	101.5	79.4	72.9	67.9	66.3	67.1	67.1
55°	1044.5	636.1	238.2	119.5	94.1	76.1	68.8	64.7	62.2	62.2	61.4
57.5°	1072.4	636.9	230.8	112.1	86.0	71.2	65.5	60.6	57.3	56.5	55.7
60°	1083.0	632.8	217.7	102.3	77.8	67.1	61.4	55.7	52.4	51.6	50.8
62.5°	1068.3	618.0	200.6	85.1	70.4	62.2	57.3	51.6	48.3	47.5	46.7
65°	1026.5	590.2	174.4	67.1	63.9	56.5	52.4	48.3	44.2	42.6	41.7
67.5°	955.3	550.1	141.6	54.0	56.5	51.6	49.1	44.2	39.3	37.7	36.8
70°	853.8	496.9	106.4	45.8	49.9	45.8	44.2	39.3	35.2	33.6	32.7
72.5°	711.4	410.9	74.5	39.3	43.4	40.1	38.5	35.2	31.1	28.7	28.7
75°	537.8	294.7	49.1	33.6	36.0	34.4	31.9	29.5	27.0	25.4	24.6
77.5°	231.7	114.6	30.3	25.4	29.5	28.7	25.4	23.7	22.9	21.3	21.3
80°	99.9	46.7	18.8	18.8	21.3	20.5	19.6	18.0	18.0	17.2	16.4
82.5°	36.8	18.8	11.5	13.9	15.6	13.9	13.9	13.9	13.9	13.1	13.1
85°	9.0	5.7	5.7	8.2	9.0	8.2	9.0	8.2	8.2	8.2	7.4
87.5°	2.5	2.5	3.3	3.3	3.3	3.3	3.3	2.5	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)