

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: P799606

Luminaire Tested: **ARCH2-40-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799606
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: ARCH2-40-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3916 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44.1
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

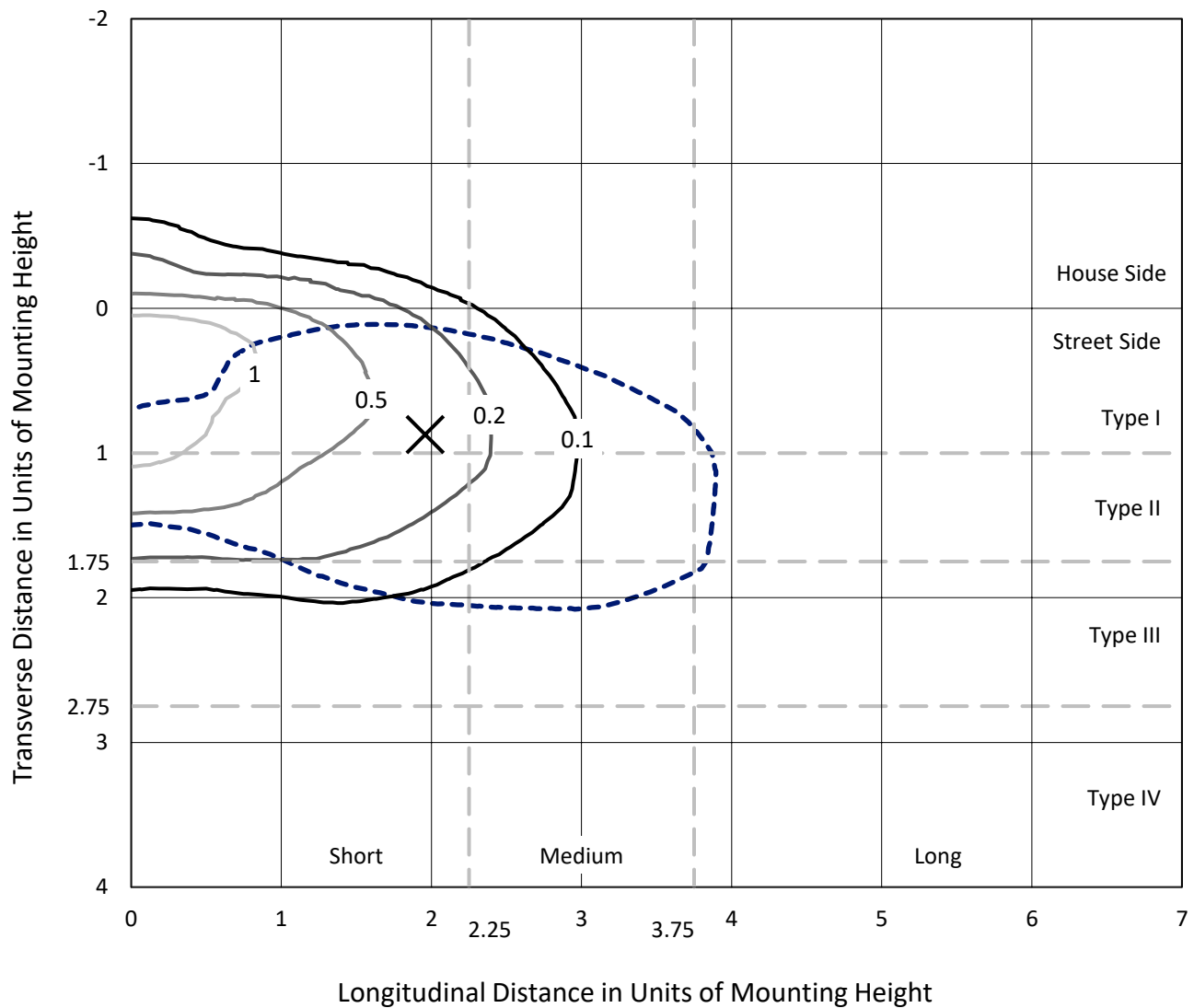


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

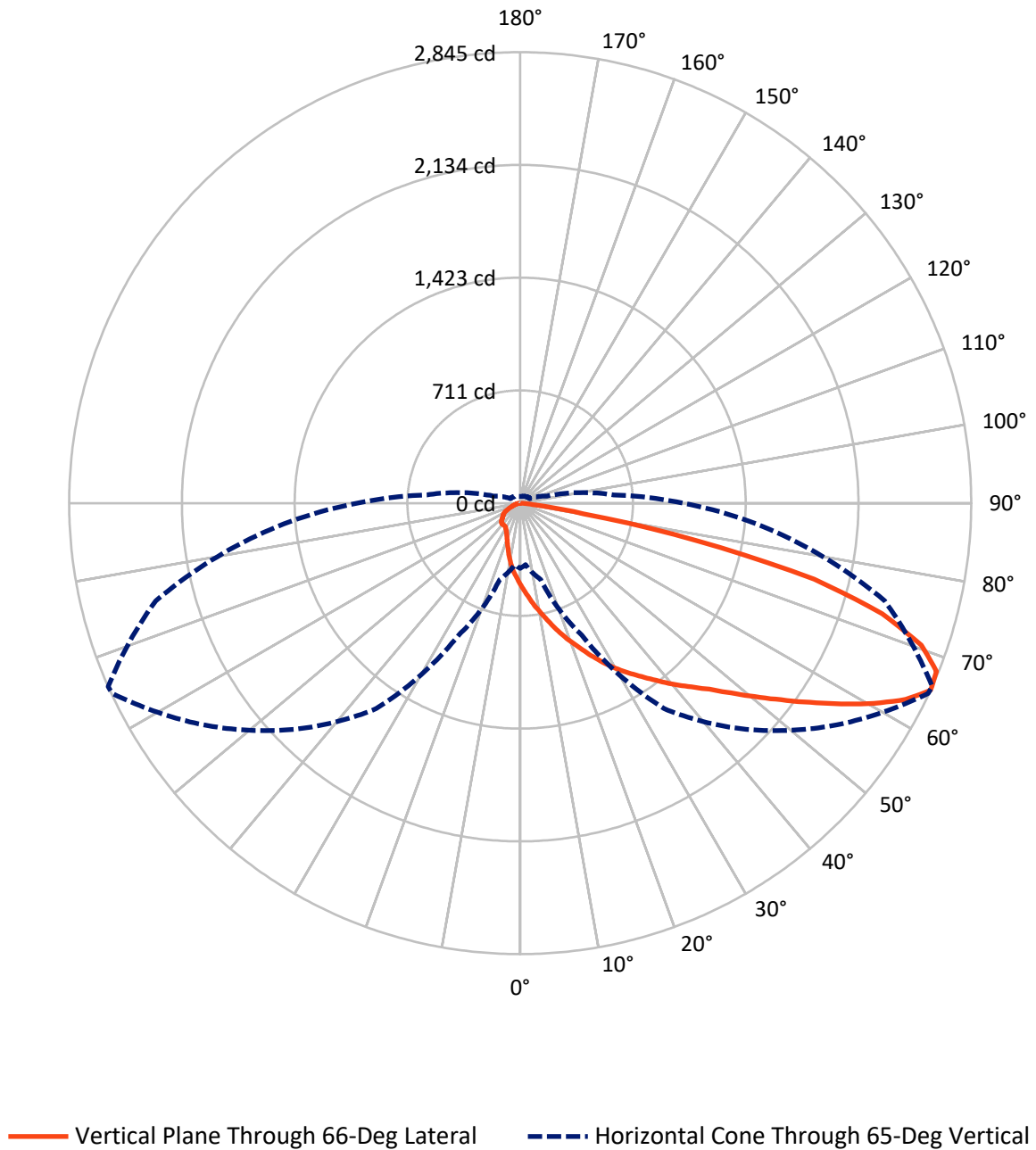


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.2	0.0	414.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3501.8	0.0	3501.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	3916.0	0.0	3916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.3
10°-20°	166.7	4.3
20°-30°	301.7	7.7
30°-40°	471.7	12.0
40°-50°	715.6	18.3
50°-60°	909.1	23.2
60°-70°	849.5	21.7
70°-80°	422.2	10.8
80°-90°	28.4	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°	3916.0	100.0
0°-180°	3916.0	100.0

Coefficient of Utilization



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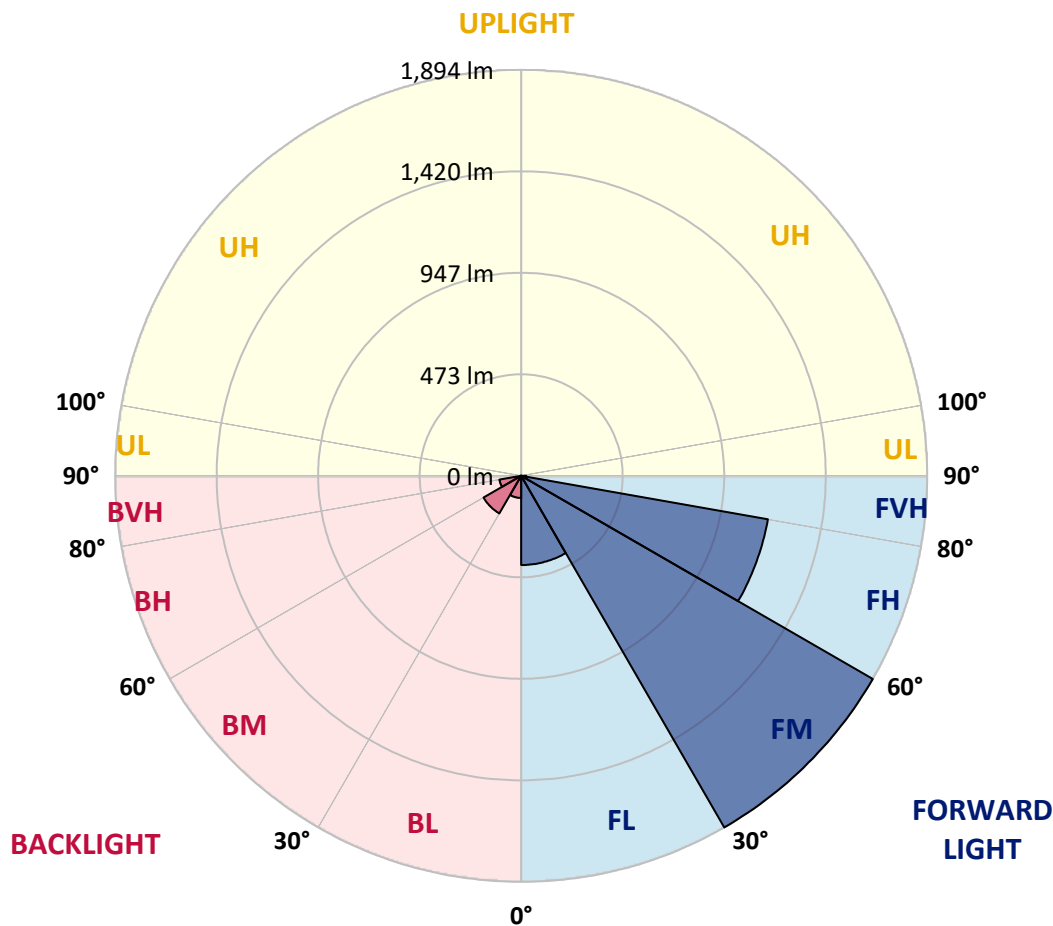
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.1	10.6			
FM	(30°-60°)	1893.8	48.4			
FH	(60°-80°)	1168.6	29.8			G1/1800
FVH	(80°-90°)	23.3	0.6			G1/100
BL	(0°-30°)	103.4	2.6	B0/110		
BM	(30°-60°)	202.6	5.2	B0/220		
BH	(60°-80°)	103.2	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°	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3
2.5°	605.3	610.3	612.7	613.5	594.6	586.4	578.2	559.3	555.2	544.5	530.6
5°	712.1	718.7	717.0	713.7	690.7	664.5	643.1	607.8	602.0	576.6	545.4
7.5°	817.2	823.0	821.3	809.0	783.6	746.6	711.3	659.5	651.3	610.3	560.1
10°	905.1	910.0	909.2	896.9	866.5	821.3	778.6	709.6	699.8	641.5	572.5
12.5°	977.4	984.0	983.1	974.9	947.8	898.5	850.1	767.1	754.8	679.2	589.7
15°	1034.1	1042.3	1042.3	1039.0	1020.1	979.0	924.0	830.4	815.6	722.8	611.1
17.5°	1068.6	1075.1	1080.9	1086.6	1073.5	1042.3	992.2	893.6	878.0	765.5	633.2
20°	1086.6	1093.2	1097.3	1109.6	1112.1	1096.5	1057.1	956.0	939.6	813.9	658.7
22.5°	1116.2	1121.9	1122.8	1133.4	1138.4	1142.5	1117.8	1017.6	1004.5	867.3	687.5
25°	1165.5	1172.0	1169.6	1174.5	1175.3	1180.3	1177.8	1088.3	1075.1	928.1	722.0
27.5°	1228.7	1236.9	1235.3	1230.4	1223.0	1218.9	1229.5	1159.7	1147.4	988.9	757.3
30°	1296.9	1306.7	1304.3	1294.4	1274.7	1257.5	1272.2	1227.1	1215.6	1051.3	796.7
32.5°	1365.9	1377.4	1376.6	1360.1	1326.5	1296.9	1319.1	1290.3	1282.1	1118.7	839.4
35°	1411.1	1425.8	1424.2	1414.3	1370.8	1345.3	1372.4	1355.2	1349.5	1200.8	901.0
37.5°	1484.1	1499.8	1485.8	1461.2	1411.1	1397.9	1430.8	1428.3	1424.2	1287.9	965.9
40°	1661.6	1684.6	1647.6	1546.6	1464.4	1452.9	1499.8	1509.6	1505.5	1374.1	1024.2
42.5°	1847.2	1881.7	1824.2	1684.6	1561.4	1519.5	1575.3	1589.3	1584.4	1448.0	1076.8
45°	1959.7	1974.5	1917.0	1808.6	1733.0	1600.0	1655.8	1678.8	1674.7	1536.7	1144.1
47.5°	2051.7	2045.9	1980.2	1907.1	1921.1	1713.3	1747.0	1792.1	1788.9	1634.5	1218.0
50°	2071.4	2058.3	2032.0	1986.0	2022.9	1828.3	1843.1	1921.1	1917.8	1742.9	1292.8
52.5°	1932.6	1915.3	1986.8	2025.4	2013.1	1912.1	1949.0	2062.4	2060.7	1860.3	1364.2
55°	1586.0	1572.0	1764.2	1963.8	2002.4	1971.2	2066.5	2209.4	2218.4	1985.2	1429.1
57.5°	1247.6	1232.8	1421.7	1809.4	1963.0	2025.4	2203.6	2377.8	2389.3	2120.7	1490.7
60°	994.6	972.5	1117.0	1566.3	1889.1	2067.3	2335.9	2562.6	2564.2	2244.7	1528.5
62.5°	676.0	651.3	811.5	1258.3	1765.0	2073.9	2437.7	2721.9	2728.5	2337.5	1535.1
65°	410.7	390.1	498.5	919.1	1581.9	2018.0	2439.4	2839.3	2845.1	2380.2	1495.6
67.5°	238.2	230.0	285.0	572.5	1278.0	1867.7	2336.7	2821.3	2832.0	2362.2	1406.1
70°	138.8	138.0	158.5	283.4	901.8	1569.6	2107.5	2669.3	2684.9	2267.7	1269.0
72.5°	101.8	103.5	111.7	151.9	522.4	1130.2	1784.8	2363.8	2387.6	2082.9	1073.5
75°	80.5	81.3	88.7	103.5	274.3	639.0	1337.1	1897.3	1916.2	1753.5	838.6
77.5°	60.0	61.6	67.3	73.1	127.3	293.2	752.3	1168.8	1137.5	962.6	404.9
80°	43.5	47.6	50.1	52.6	67.3	113.3	225.9	407.4	404.1	420.5	191.4
82.5°	27.9	31.2	33.7	35.3	40.2	54.2	67.3	91.2	98.6	163.4	76.4
85°	12.3	14.0	15.6	18.9	17.2	18.9	27.9	18.1	15.6	24.6	14.0
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°	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3	518.3
2.5°	523.2	514.2	495.3	477.2	466.5	452.6	440.2	428.7	427.9	424.6	418.9
5°	529.8	512.5	477.2	443.5	418.1	391.0	368.0	349.9	343.3	338.4	331.8
7.5°	536.3	509.2	456.7	407.4	367.1	329.4	302.3	277.6	270.2	263.6	259.5
10°	538.8	503.5	432.8	367.1	314.6	274.3	245.6	227.5	220.9	217.7	215.2
12.5°	546.2	500.2	410.7	329.4	268.6	231.6	211.1	200.4	197.9	195.5	193.0
15°	556.0	500.2	388.5	292.4	232.4	202.9	190.5	183.2	181.5	180.7	179.1
17.5°	566.7	500.2	367.1	261.2	206.2	184.0	174.9	170.8	170.0	169.2	168.4
20°	581.5	501.0	344.1	234.1	187.3	170.0	162.6	157.7	156.9	156.1	156.1
22.5°	596.3	502.7	322.0	213.5	174.9	159.3	150.3	145.4	143.7	143.7	143.7
25°	615.2	507.6	301.4	196.3	164.3	149.5	138.0	133.9	133.1	133.1	132.2
27.5°	637.4	513.3	283.4	183.2	153.6	138.0	126.5	122.4	120.7	120.7	119.9
30°	661.2	519.1	268.6	173.3	142.9	126.5	115.8	110.9	109.2	110.1	109.2
32.5°	687.5	527.3	257.1	166.7	133.1	116.6	106.8	101.0	100.2	100.2	99.4
35°	731.8	550.3	255.4	163.4	124.8	109.2	99.4	93.6	92.8	92.8	92.0
37.5°	779.4	576.6	262.8	161.8	118.3	102.7	93.6	87.9	87.1	87.1	87.1
40°	819.7	596.3	271.0	161.8	114.2	96.9	88.7	83.8	83.8	83.8	83.8
42.5°	846.8	597.9	269.4	161.8	110.9	92.8	85.4	80.5	80.5	81.3	80.5
45°	887.0	606.1	262.8	159.3	108.4	89.5	82.1	78.0	77.2	78.0	78.0
47.5°	934.7	620.9	256.3	149.5	107.6	86.2	79.7	74.7	73.9	74.7	73.9
50°	979.9	634.1	253.0	136.3	106.0	83.0	76.4	71.5	70.6	71.5	70.6
52.5°	1017.6	639.8	247.2	127.3	101.8	79.7	73.1	68.2	66.5	67.3	67.3
55°	1048.0	638.2	239.0	119.9	94.5	76.4	69.0	64.9	62.4	62.4	61.6
57.5°	1075.9	639.0	231.6	112.5	86.2	71.5	65.7	60.8	57.5	56.7	55.9
60°	1086.6	634.9	218.5	102.7	78.0	67.3	61.6	55.9	52.6	51.7	50.9
62.5°	1071.8	620.1	201.2	85.4	70.6	62.4	57.5	51.7	48.5	47.6	46.8
65°	1030.0	592.2	174.9	67.3	64.1	56.7	52.6	48.5	44.4	42.7	41.9
67.5°	958.5	551.9	142.1	54.2	56.7	51.7	49.3	44.4	39.4	37.8	37.0
70°	856.7	498.5	106.8	46.0	50.1	46.0	44.4	39.4	35.3	33.7	32.9
72.5°	713.7	412.3	74.7	39.4	43.5	40.2	38.6	35.3	31.2	28.7	28.7
75°	539.6	295.7	49.3	33.7	36.1	34.5	32.0	29.6	27.1	25.5	24.6
77.5°	232.4	115.0	30.4	25.5	29.6	28.7	25.5	23.8	23.0	21.4	21.4
80°	100.2	46.8	18.9	18.9	21.4	20.5	19.7	18.1	18.1	17.2	16.4
82.5°	37.0	18.9	11.5	14.0	15.6	14.0	14.0	14.0	14.0	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)