

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: P798598

Luminaire Tested: **ARCH1-20-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798598
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: ARCH1-20-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

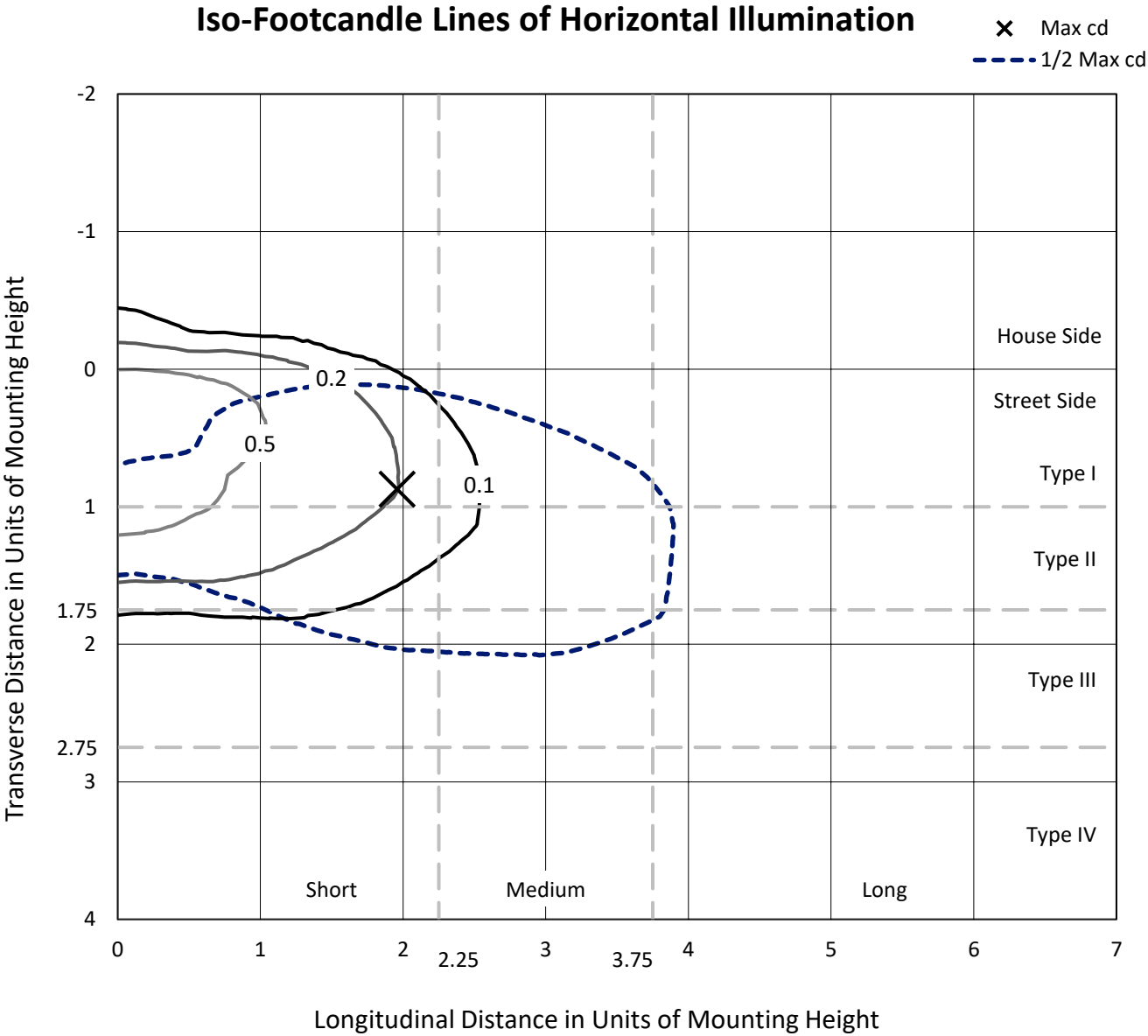
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319 lumens
Efficiency: N/A
Efficacy: 98.7 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): 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

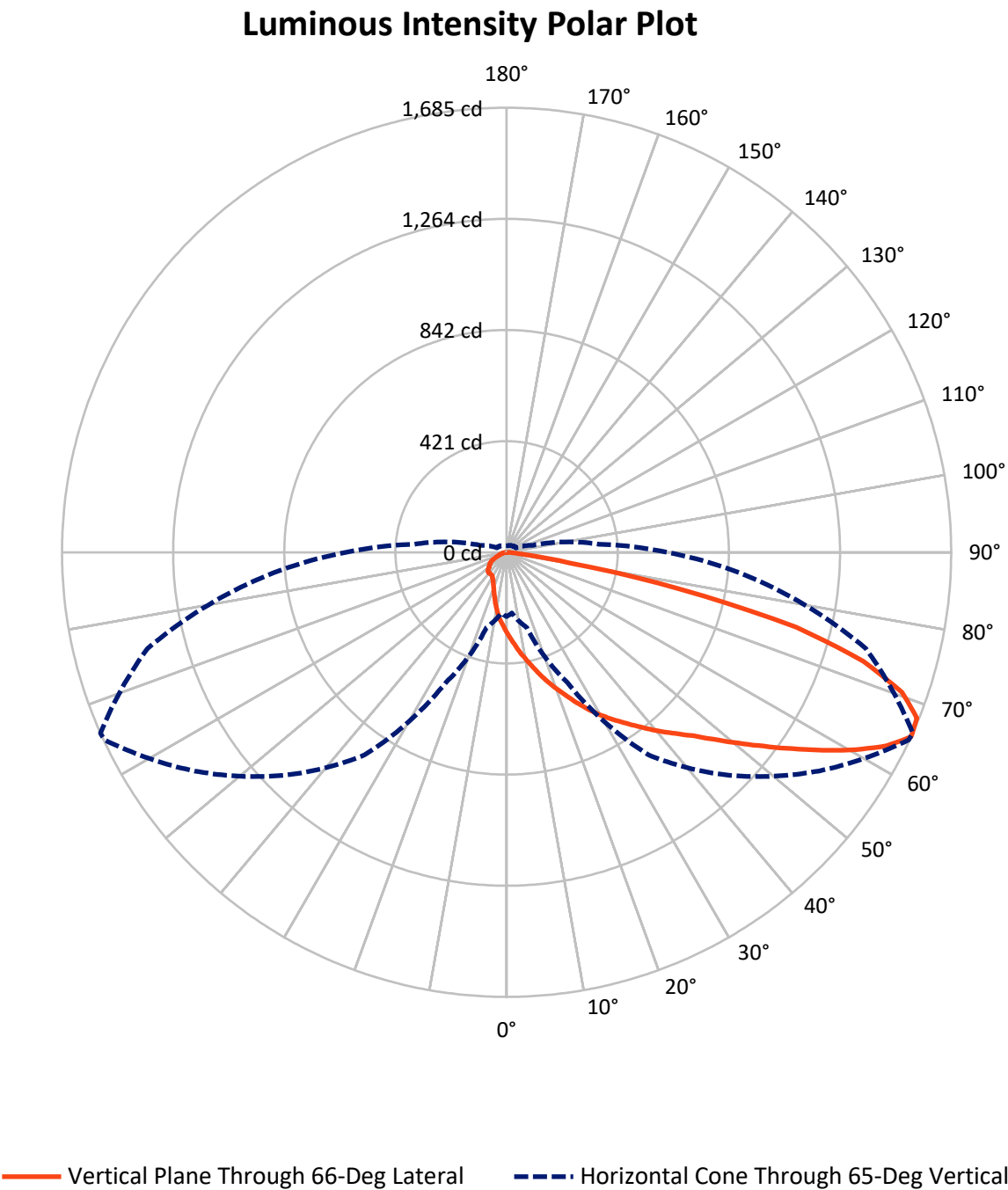


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Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.3	0.0	245.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2073.7	0.0	2073.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	2319.0	0.0	2319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	1.3
10°-20°	98.7	4.3
20°-30°	178.6	7.7
30°-40°	279.3	12.0
40°-50°	423.7	18.3
50°-60°	538.4	23.2
60°-70°	503.1	21.7
70°-80°	250.0	10.8
80°-90°	16.8	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°	2319.0	100.0
0°-180°	2319.0	100.0

Coefficient of Utilization



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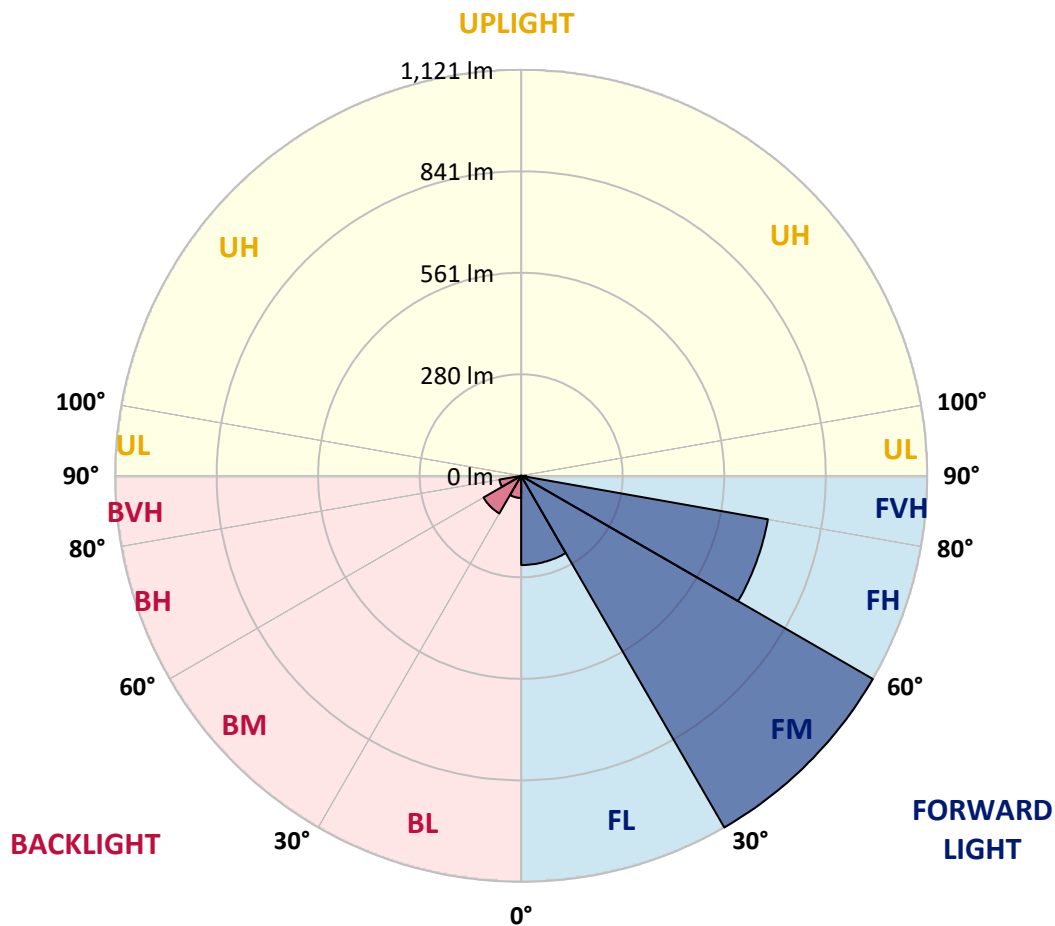
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.4	10.6			
FM	(30°-60°)	1121.5	48.4			
FH	(60°-80°)	692.0	29.8			G1/1800
FVH	(80°-90°)	13.8	0.6			G1/100
BL	(0°-30°)	61.3	2.6	B0/110		
BM	(30°-60°)	120.0	5.2	B0/220		
BH	(60°-80°)	61.1	2.6	B0/110		G0/110
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: 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°	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9
2.5°	358.5	361.4	362.8	363.3	352.1	347.3	342.4	331.2	328.8	322.5	314.2
5°	421.7	425.6	424.6	422.7	409.0	393.5	380.8	359.9	356.5	341.4	323.0
7.5°	483.9	487.4	486.4	479.1	464.0	442.1	421.2	390.6	385.7	361.4	331.7
10°	536.0	538.9	538.4	531.1	513.1	486.4	461.1	420.2	414.4	379.9	339.0
12.5°	578.8	582.7	582.2	577.3	561.3	532.1	503.4	454.3	447.0	402.2	349.2
15°	612.4	617.2	617.2	615.3	604.1	579.8	547.2	491.7	483.0	428.0	361.9
17.5°	632.8	636.7	640.1	643.5	635.7	617.2	587.5	529.2	519.9	453.3	375.0
20°	643.5	647.4	649.8	657.1	658.6	649.3	626.0	566.1	556.4	482.0	390.1
22.5°	661.0	664.4	664.9	671.2	674.1	676.6	662.0	602.6	594.8	513.6	407.1
25°	690.2	694.1	692.6	695.5	696.0	698.9	697.5	644.5	636.7	549.6	427.5
27.5°	727.6	732.5	731.5	728.6	724.2	721.8	728.1	686.8	679.5	585.6	448.4
30°	768.0	773.8	772.4	766.5	754.9	744.7	753.4	726.7	719.8	622.6	471.8
32.5°	808.9	815.7	815.2	805.4	785.5	768.0	781.1	764.1	759.2	662.5	497.1
35°	835.6	844.4	843.4	837.5	811.8	796.7	812.7	802.5	799.1	711.1	533.6
37.5°	878.9	888.1	879.9	865.3	835.6	827.8	847.3	845.8	843.4	762.6	572.0
40°	984.0	997.6	975.7	915.9	867.2	860.4	888.1	894.0	891.5	813.7	606.5
42.5°	1093.9	1114.3	1080.3	997.6	924.6	899.8	932.9	941.1	938.2	857.5	637.6
45°	1160.5	1169.3	1135.2	1071.0	1026.3	947.5	980.5	994.2	991.7	910.0	677.5
47.5°	1215.0	1211.6	1172.7	1129.4	1137.6	1014.6	1034.5	1061.3	1059.3	967.9	721.3
50°	1226.7	1218.9	1203.3	1176.1	1198.0	1082.7	1091.4	1137.6	1135.7	1032.1	765.6
52.5°	1144.5	1134.2	1176.6	1199.4	1192.1	1132.3	1154.2	1221.3	1220.3	1101.7	807.9
55°	939.2	930.9	1044.7	1162.9	1185.8	1167.3	1223.7	1308.4	1313.7	1175.6	846.3
57.5°	738.8	730.1	841.9	1071.5	1162.5	1199.4	1305.0	1408.1	1414.9	1255.8	882.8
60°	589.0	575.9	661.5	927.5	1118.7	1224.2	1383.3	1517.5	1518.5	1329.3	905.2
62.5°	400.3	385.7	480.5	745.1	1045.2	1228.1	1443.6	1611.9	1615.8	1384.2	909.0
65°	243.2	231.0	295.2	544.3	936.8	1195.0	1444.6	1681.4	1684.8	1409.5	885.7
67.5°	141.1	136.2	168.8	339.0	756.8	1106.0	1383.8	1670.7	1677.0	1398.8	832.7
70°	82.2	81.7	93.9	167.8	534.0	929.5	1248.1	1580.7	1590.0	1342.9	751.5
72.5°	60.3	61.3	66.1	90.0	309.3	669.3	1056.9	1399.8	1413.9	1233.5	635.7
75°	47.7	48.2	52.5	61.3	162.5	378.4	791.8	1123.5	1134.7	1038.4	496.6
77.5°	35.5	36.5	39.9	43.3	75.4	173.6	445.5	692.1	673.6	570.0	239.8
80°	25.8	28.2	29.7	31.1	39.9	67.1	133.8	241.2	239.3	249.0	113.3
82.5°	16.5	18.5	19.9	20.9	23.8	32.1	39.9	54.0	58.4	96.8	45.2
85°	7.3	8.3	9.2	11.2	10.2	11.2	16.5	10.7	9.2	14.6	8.3
87.5°	0.0	0.0	1.5	2.4	1.9	1.0	2.9	1.9	1.5	1.5	1.5
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°	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9	306.9
2.5°	309.8	304.5	293.3	282.6	276.3	268.0	260.7	253.9	253.4	251.5	248.1
5°	313.7	303.5	282.6	262.6	247.6	231.5	217.9	207.2	203.3	200.4	196.5
7.5°	317.6	301.6	270.4	241.2	217.4	195.0	179.0	164.4	160.0	156.1	153.7
10°	319.1	298.2	256.3	217.4	186.3	162.5	145.4	134.7	130.8	128.9	127.4
12.5°	323.4	296.2	243.2	195.0	159.0	137.2	125.0	118.7	117.2	115.8	114.3
15°	329.3	296.2	230.1	173.2	137.6	120.1	112.8	108.5	107.5	107.0	106.0
17.5°	335.6	296.2	217.4	154.7	122.1	108.9	103.6	101.2	100.7	100.2	99.7
20°	344.4	296.7	203.8	138.6	110.9	100.7	96.3	93.4	92.9	92.4	92.4
22.5°	353.1	297.7	190.7	126.5	103.6	94.4	89.0	86.1	85.1	85.1	85.1
25°	364.3	300.6	178.5	116.2	97.3	88.5	81.7	79.3	78.8	78.8	78.3
27.5°	377.4	304.0	167.8	108.5	91.0	81.7	74.9	72.5	71.5	71.5	71.0
30°	391.5	307.4	159.0	102.6	84.6	74.9	68.6	65.7	64.7	65.2	64.7
32.5°	407.1	312.3	152.2	98.7	78.8	69.1	63.2	59.8	59.3	59.3	58.9
35°	433.4	325.9	151.3	96.8	73.9	64.7	58.9	55.4	55.0	55.0	54.5
37.5°	461.6	341.4	155.6	95.8	70.0	60.8	55.4	52.0	51.6	51.6	51.6
40°	485.4	353.1	160.5	95.8	67.6	57.4	52.5	49.6	49.6	49.6	49.6
42.5°	501.5	354.1	159.5	95.8	65.7	55.0	50.6	47.7	47.7	48.2	47.7
45°	525.3	358.9	155.6	94.4	64.2	53.0	48.6	46.2	45.7	46.2	46.2
47.5°	553.5	367.7	151.8	88.5	63.7	51.1	47.2	44.3	43.8	44.3	43.8
50°	580.3	375.5	149.8	80.7	62.7	49.1	45.2	42.3	41.8	42.3	41.8
52.5°	602.6	378.9	146.4	75.4	60.3	47.2	43.3	40.4	39.4	39.9	39.9
55°	620.6	377.9	141.5	71.0	55.9	45.2	40.9	38.4	37.0	37.0	36.5
57.5°	637.2	378.4	137.2	66.6	51.1	42.3	38.9	36.0	34.0	33.6	33.1
60°	643.5	376.0	129.4	60.8	46.2	39.9	36.5	33.1	31.1	30.6	30.2
62.5°	634.7	367.2	119.2	50.6	41.8	37.0	34.0	30.6	28.7	28.2	27.7
65°	609.9	350.7	103.6	39.9	37.9	33.6	31.1	28.7	26.3	25.3	24.8
67.5°	567.6	326.8	84.1	32.1	33.6	30.6	29.2	26.3	23.3	22.4	21.9
70°	507.3	295.2	63.2	27.2	29.7	27.2	26.3	23.3	20.9	19.9	19.5
72.5°	422.7	244.2	44.3	23.3	25.8	23.8	22.9	20.9	18.5	17.0	17.0
75°	319.6	175.1	29.2	19.9	21.4	20.4	19.0	17.5	16.1	15.1	14.6
77.5°	137.6	68.1	18.0	15.1	17.5	17.0	15.1	14.1	13.6	12.6	12.6
80°	59.3	27.7	11.2	11.2	12.6	12.2	11.7	10.7	10.7	10.2	9.7
82.5°	21.9	11.2	6.8	8.3	9.2	8.3	8.3	8.3	8.3	7.8	7.8
85°	5.4	3.4	3.4	4.9	5.4	4.9	5.4	4.9	4.9	4.9	4.4
87.5°	1.5	1.5	1.9	1.9	1.9	1.9	1.9	1.5	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)