

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: P1209924

Luminaire Tested: **ARCH1-20-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - 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

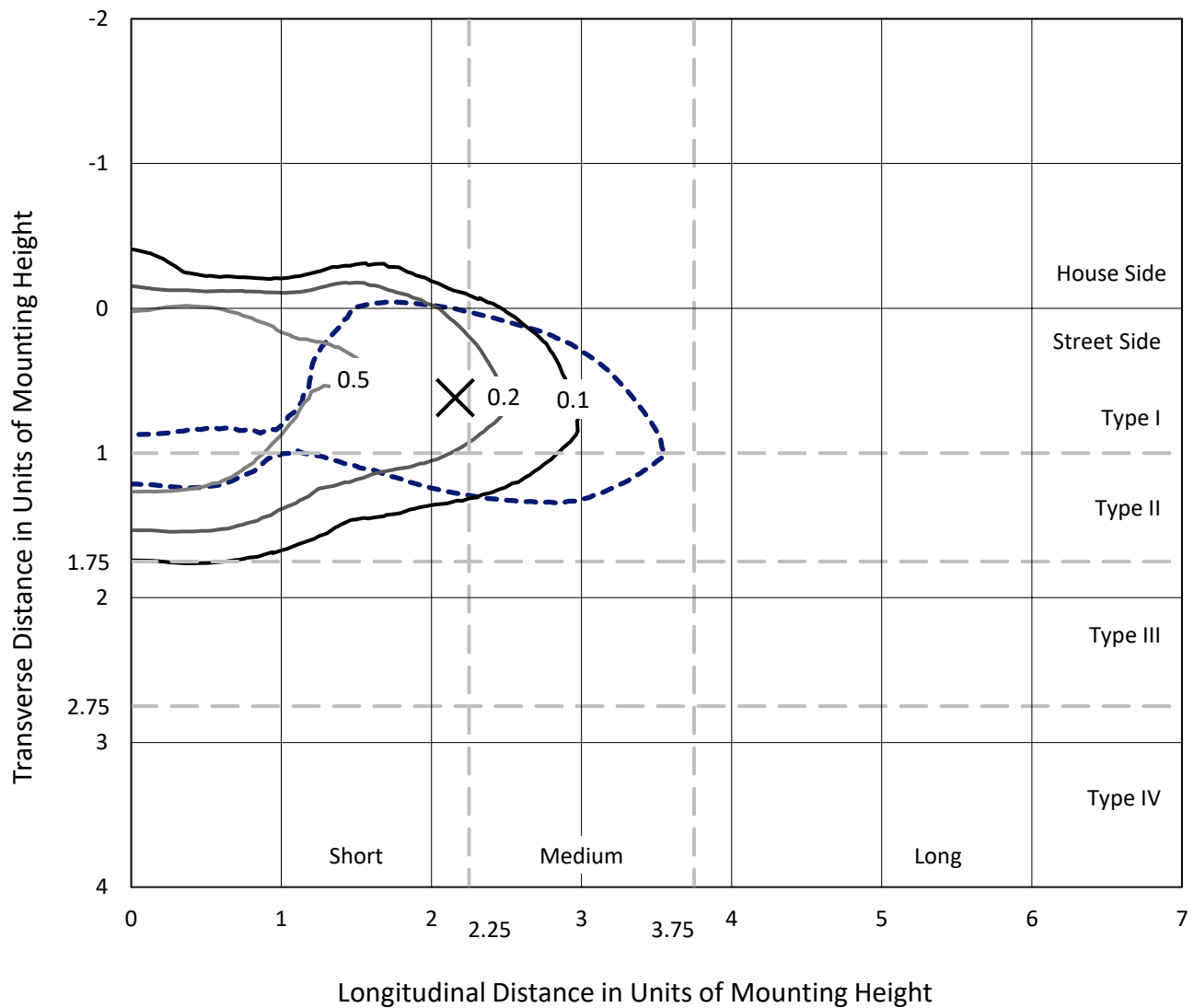


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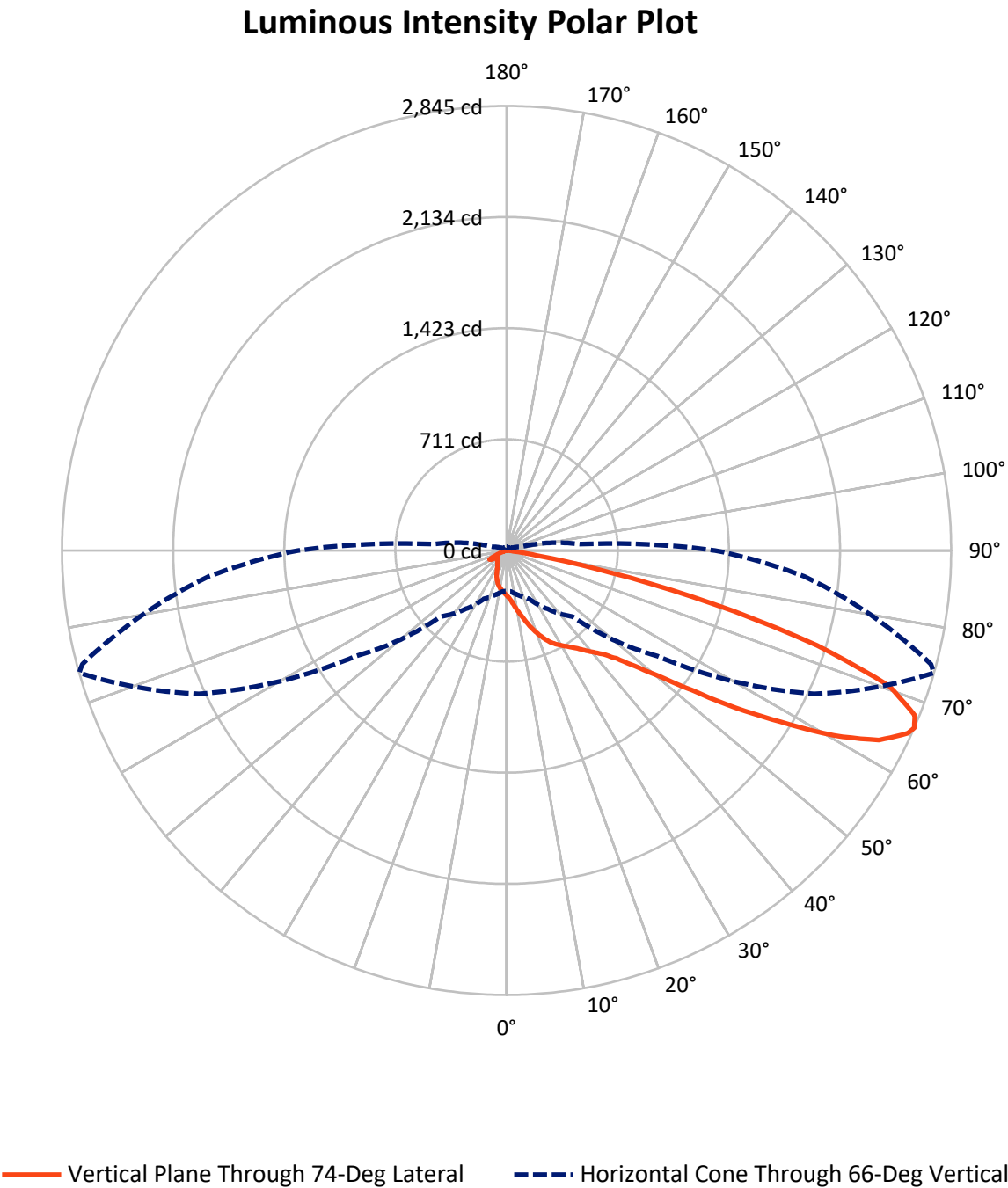
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.0	0.0	260.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	2392.0	0.0	2392.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	2652.0	0.0	2652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.3	1.1
10°-20°	90.6	3.4
20°-30°	172.9	6.5
30°-40°	303.0	11.4
40°-50°	519.6	19.6
50°-60°	675.7	25.5
60°-70°	611.7	23.1
70°-80°	236.0	8.9
80°-90°	14.2	0.5
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°	2652.0	100.0
0°-180°	2652.0	100.0

Coefficient of Utilization



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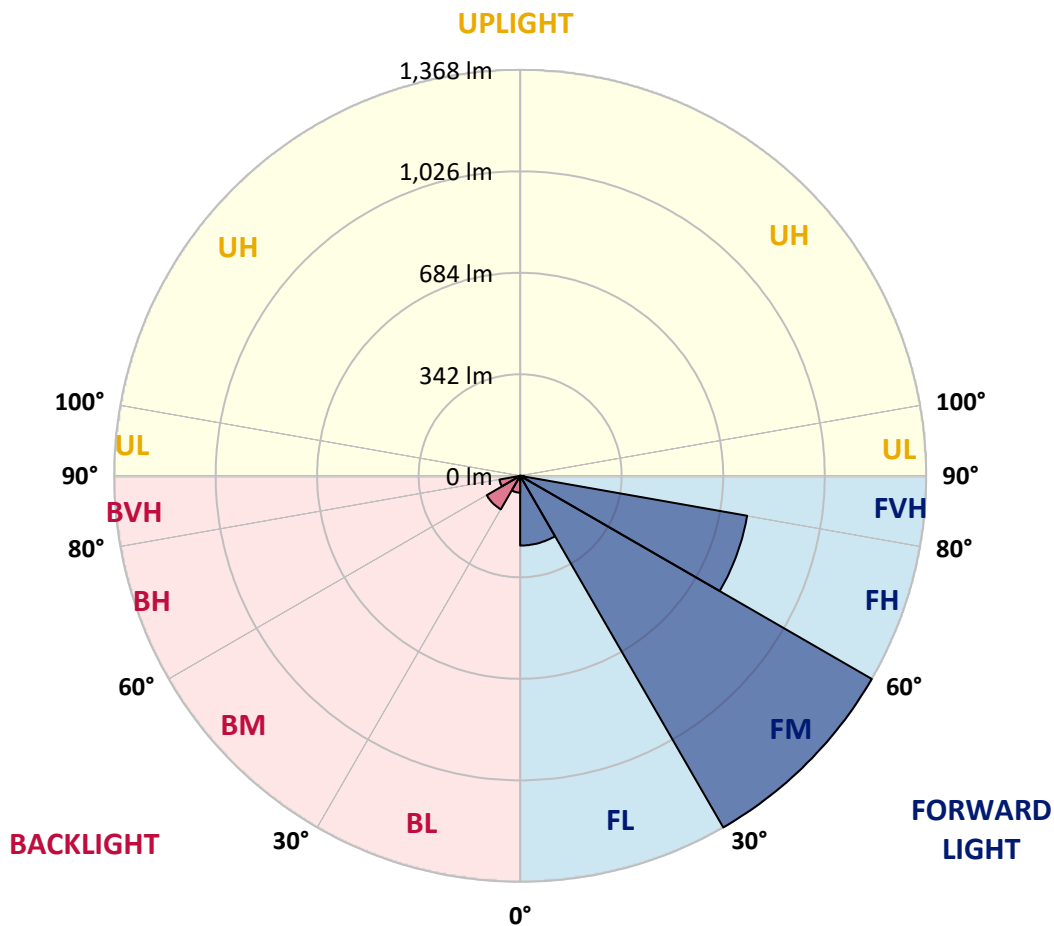
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.0	8.9			
FM	(30°-60°)	1368.0	51.6			
FH	(60°-80°)	776.7	29.3			G1/1800
FVH	(80°-90°)	12.3	0.5			G1/100
BL	(0°-30°)	56.7	2.1	B0/110		
BM	(30°-60°)	130.3	4.9	B0/220		
BH	(60°-80°)	71.1	2.7	B0/110		G0/110
BVH	(80°-90°)	1.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5
2.5°	347.6	344.7	339.5	339.0	334.7	329.5	320.4	310.9	304.2	303.3	295.2
5°	416.1	414.7	409.5	406.1	398.0	385.7	364.7	343.8	326.2	324.2	306.2
7.5°	434.2	435.2	436.1	439.5	436.6	430.9	415.2	385.7	358.1	353.8	322.3
10°	437.1	436.1	436.1	440.4	448.5	456.6	454.7	429.5	393.8	388.5	344.7
12.5°	468.0	469.5	466.1	464.2	462.8	467.1	481.4	470.4	431.4	427.1	371.9
15°	508.0	507.6	502.8	502.8	498.5	491.4	500.4	508.5	476.6	471.4	402.8
17.5°	537.1	539.0	538.5	541.4	539.9	530.4	525.7	542.3	523.3	516.6	438.0
20°	560.4	565.6	567.6	576.6	580.9	574.2	561.8	572.3	568.0	561.8	473.8
22.5°	585.2	589.5	592.8	608.5	620.4	619.0	603.3	600.9	611.4	605.6	509.0
25°	609.9	611.8	621.8	640.9	659.9	664.7	648.5	629.9	650.4	645.2	540.4
27.5°	637.1	638.0	649.9	673.3	699.9	709.9	697.1	662.8	680.4	680.4	569.0
30°	686.6	696.1	700.9	721.8	745.1	759.0	743.7	697.5	707.1	711.3	599.0
32.5°	793.2	794.7	793.2	802.3	807.0	815.1	797.5	736.6	734.2	739.0	628.5
35°	956.1	950.4	935.1	921.8	894.2	878.9	856.1	786.6	767.5	774.2	657.5
37.5°	1153.7	1145.6	1110.8	1069.9	1010.8	949.9	921.3	847.5	809.9	818.5	689.0
40°	1342.2	1337.0	1295.6	1245.1	1144.1	1039.9	979.4	898.9	857.0	860.4	720.9
42.5°	1497.4	1496.5	1461.7	1408.9	1279.4	1137.0	1048.0	949.4	906.6	911.8	754.2
45°	1615.0	1606.0	1580.3	1542.2	1410.3	1237.9	1130.8	1026.1	986.1	992.3	804.2
47.5°	1615.0	1616.5	1633.1	1629.3	1501.7	1332.7	1221.3	1122.7	1103.7	1109.4	886.6
50°	1483.6	1497.0	1571.2	1633.6	1549.3	1406.5	1318.9	1243.7	1263.2	1271.8	1030.4
52.5°	1223.7	1246.0	1375.1	1517.4	1514.1	1443.6	1419.8	1397.4	1485.1	1500.3	1242.7
55°	929.9	944.6	1112.7	1299.8	1360.8	1413.2	1507.9	1592.7	1778.8	1775.5	1458.4
57.5°	694.7	708.5	853.2	1060.8	1141.3	1281.3	1553.1	1816.0	2070.2	2083.1	1660.8
60°	510.9	521.4	644.7	815.1	931.3	1079.4	1535.1	2035.9	2405.9	2391.1	1839.3
62.5°	378.0	383.8	472.8	583.7	738.0	879.4	1421.3	2186.4	2674.0	2644.0	1938.8
65°	292.3	294.3	340.4	399.5	536.6	683.7	1251.8	2209.3	2822.0	2790.1	1936.9
66°	260.4	261.9	295.7	341.4	456.6	598.5	1177.5	2172.6	2845.4	2811.6	1913.1
67.5°	218.5	217.6	237.6	267.6	342.8	461.8	1045.6	2065.5	2817.8	2800.6	1836.9
70°	161.9	162.4	172.4	179.5	200.5	255.7	755.1	1791.7	2596.8	2595.9	1627.9
72.5°	120.0	121.4	129.0	130.5	125.2	138.6	435.2	1425.1	2077.4	2077.8	1217.0
75°	90.0	92.4	94.8	95.7	90.9	87.6	196.6	958.9	1366.5	1356.5	689.0
77.5°	68.6	69.5	71.4	70.0	69.0	60.5	81.9	467.6	674.7	614.7	223.3
80°	50.0	50.0	51.9	50.0	49.5	43.3	44.8	150.0	198.1	164.7	48.1
82.5°	31.4	30.9	32.4	31.9	30.9	27.6	26.2	41.9	45.7	40.9	23.3
85°	17.6	17.1	16.7	16.2	14.8	12.4	14.3	15.7	20.9	21.4	16.7
87.5°	6.2	6.2	5.7	5.2	4.3	4.3	5.2	5.2	7.6	7.6	8.6
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°	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5	289.5
2.5°	291.4	286.2	278.5	268.5	261.4	254.3	246.6	242.4	236.2	234.7	236.6
5°	296.6	287.1	268.1	247.1	229.0	212.8	197.6	188.5	179.5	176.2	177.6
7.5°	307.6	291.4	259.0	225.2	195.2	170.9	152.8	142.4	134.3	130.9	131.9
10°	323.8	299.0	250.4	200.5	161.9	136.2	120.9	114.3	109.5	107.6	108.1
12.5°	343.3	310.0	239.5	175.7	133.3	110.9	103.8	102.4	101.4	100.5	100.9
15°	365.2	319.5	226.6	151.4	110.9	98.6	96.2	95.7	95.2	95.2	95.2
17.5°	388.0	328.1	212.4	128.6	96.7	90.9	89.5	89.5	89.5	90.0	90.0
20°	409.5	334.7	195.7	108.1	88.6	83.8	82.8	82.8	83.3	83.8	83.8
22.5°	430.4	337.6	176.2	93.8	81.9	77.6	76.2	76.2	76.2	76.7	76.7
25°	448.5	337.6	156.6	84.8	76.2	71.9	70.0	69.5	70.0	70.0	70.0
27.5°	463.8	336.1	137.6	78.6	70.5	66.2	64.3	63.8	64.8	65.2	65.2
30°	479.9	334.2	122.4	72.8	65.7	61.4	59.5	59.5	60.9	62.8	62.8
32.5°	495.7	335.7	110.5	68.1	60.9	57.6	55.7	56.2	59.0	61.9	61.9
35°	512.3	338.5	103.3	64.8	57.6	54.3	52.9	54.3	57.1	60.0	60.0
37.5°	529.0	341.9	99.0	61.9	54.8	51.4	50.5	52.4	55.7	58.6	59.0
40°	546.6	344.7	94.3	59.0	52.9	49.0	48.6	50.5	54.8	57.6	58.1
42.5°	568.5	350.4	88.6	56.7	50.9	46.2	46.7	48.1	52.4	56.7	57.1
45°	611.4	368.5	82.8	54.3	48.6	44.8	43.8	44.8	49.5	54.3	55.2
47.5°	691.8	409.5	76.7	51.9	46.2	43.8	40.0	40.9	45.2	50.5	50.9
50°	846.1	496.6	73.3	49.5	44.3	40.5	36.2	36.2	39.5	44.3	44.3
52.5°	1086.5	652.8	75.2	47.6	41.9	37.1	32.9	32.4	34.3	37.6	37.6
55°	1346.0	824.2	82.4	45.7	39.0	35.2	30.5	28.1	29.5	31.4	31.4
57.5°	1551.7	910.4	101.9	44.8	35.7	33.8	27.6	24.3	25.7	27.6	27.6
60°	1642.2	859.9	123.8	45.7	33.3	31.4	24.8	21.4	23.8	25.7	26.2
62.5°	1568.9	708.0	132.8	43.3	30.0	28.1	24.3	20.0	22.9	24.3	24.8
65°	1410.3	538.0	103.8	37.6	27.6	24.3	21.9	19.0	21.4	22.9	22.9
66°	1335.1	469.0	88.6	34.8	26.7	22.9	20.9	19.0	20.9	21.9	22.4
67.5°	1218.4	370.0	65.7	30.5	24.8	20.9	19.5	18.1	20.0	20.9	20.9
70°	952.7	220.4	39.5	23.8	21.4	18.6	17.6	16.7	18.1	18.6	18.6
72.5°	596.6	104.7	25.2	17.6	18.1	17.6	14.8	15.7	16.2	16.7	16.7
75°	289.0	41.4	17.1	12.9	14.8	16.7	11.9	13.8	14.3	15.2	14.8
77.5°	80.5	20.0	11.0	9.5	12.9	12.9	9.0	11.0	12.9	16.2	14.8
80°	23.3	12.9	7.1	7.1	9.0	9.0	6.2	7.6	8.6	9.5	10.0
82.5°	16.2	8.6	4.8	5.2	5.2	5.7	3.8	3.8	4.8	4.8	5.2
85°	12.9	3.8	2.9	3.3	2.4	2.9	1.9	1.9	2.4	1.9	1.9
87.5°	5.2	1.9	1.9	1.9	1.4	1.4	1.0	0.5	0.5	0.5	0.5
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)