

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: P1210326

Luminaire Tested: **ARCH2-90-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-90-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7466 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.7
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

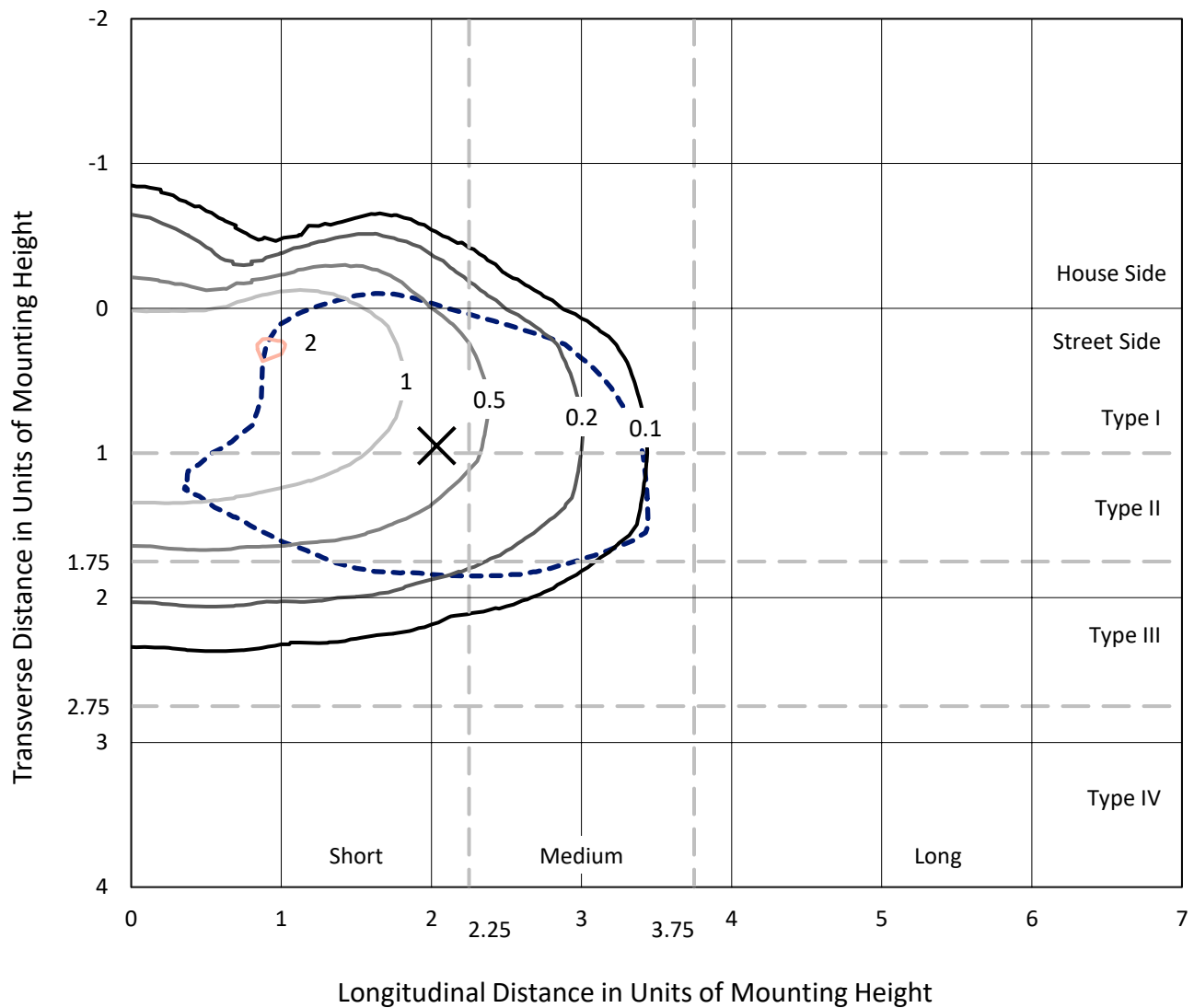


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Iso-Footcandle Lines of Horizontal Illumination

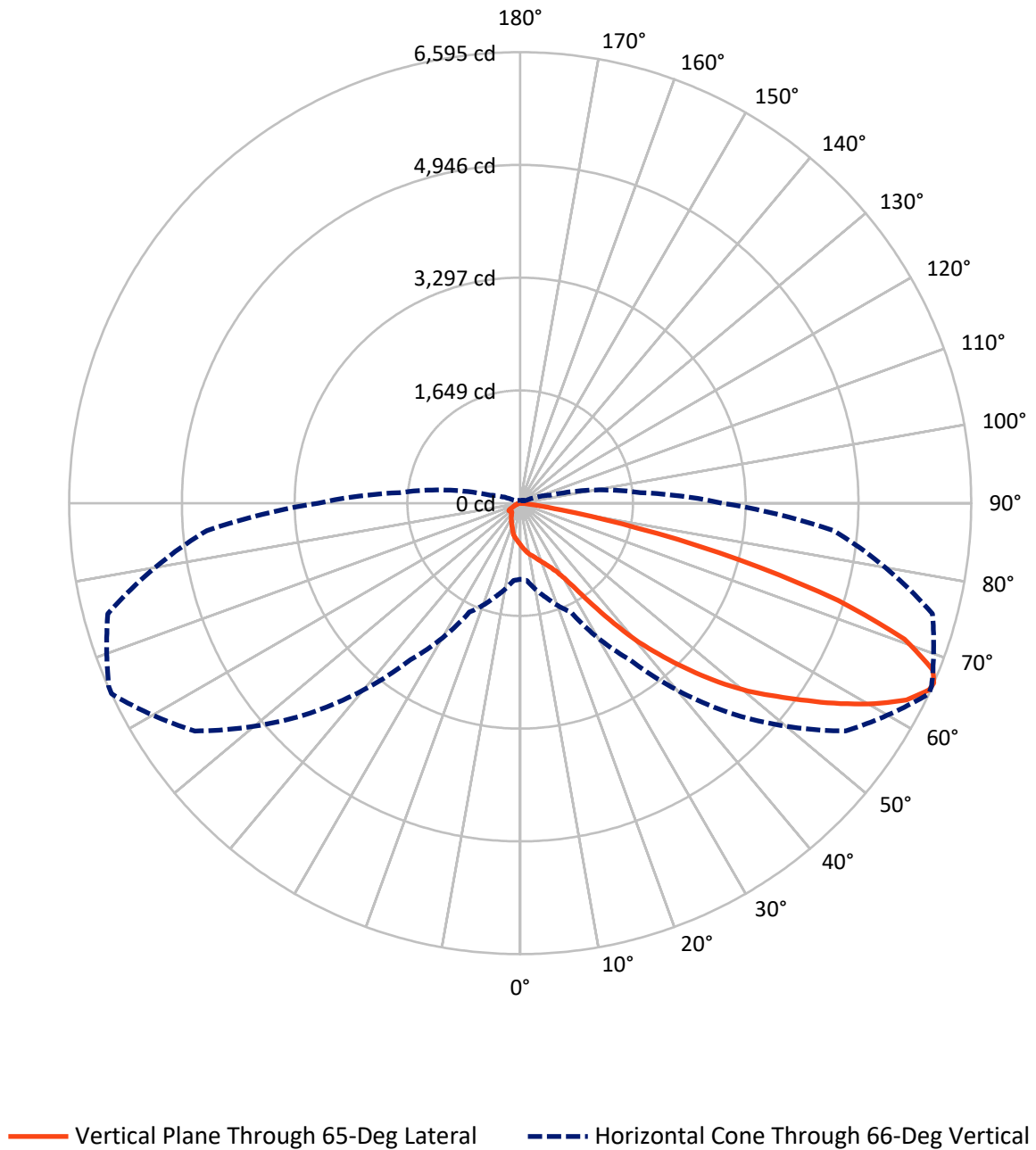
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	881.1	0.0	881.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6584.9	0.0	6584.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	7466.0	0.0	7466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	0.8
10°-20°	170.7	2.3
20°-30°	312.4	4.2
30°-40°	634.9	8.5
40°-50°	1340.7	18.0
50°-60°	2061.1	27.6
60°-70°	2074.6	27.8
70°-80°	775.2	10.4
80°-90°	38.7	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°	7466.0	100.0
0°-180°	7466.0	100.0

Coefficient of Utilization



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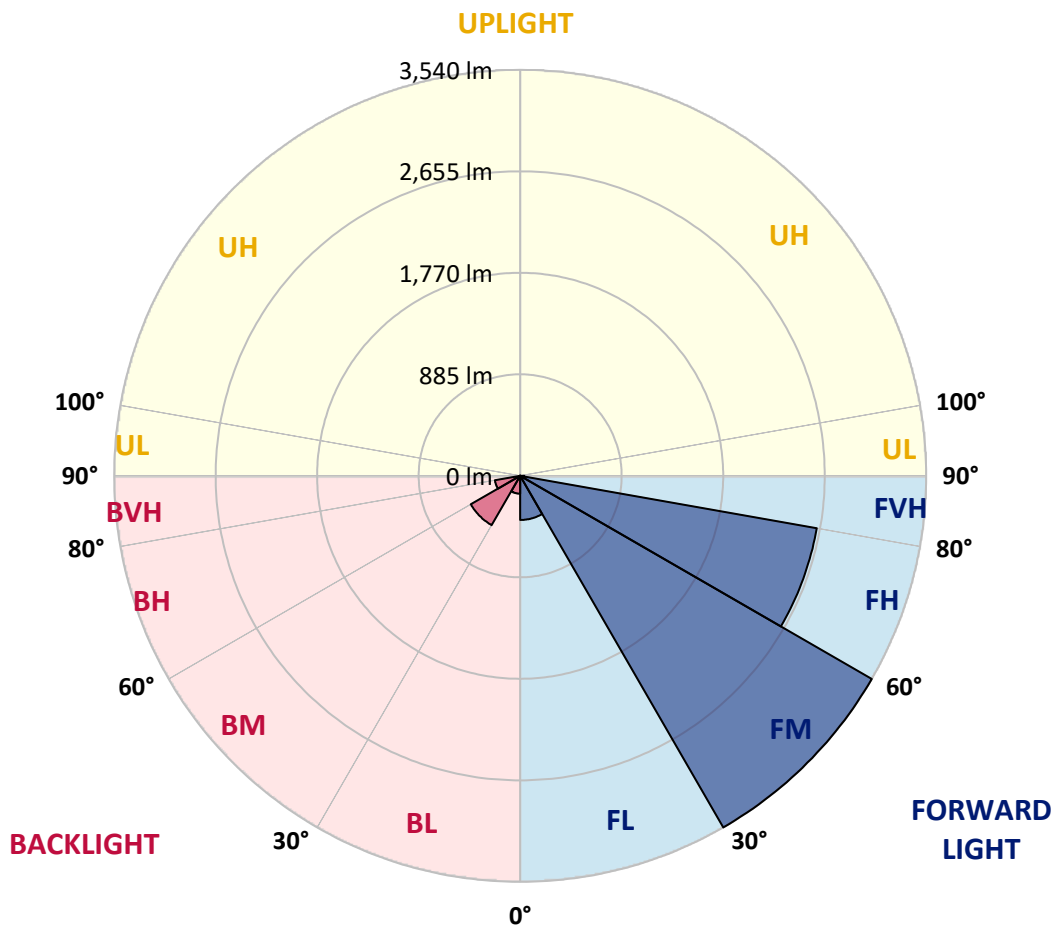
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.9	5.2			
FM	(30°-60°)	3539.9	47.4			
FH	(60°-80°)	2626.0	35.2			G2/5000
FVH	(80°-90°)	34.2	0.5			G1/100
BL	(0°-30°)	156.0	2.1	B1/500		
BM	(30°-60°)	496.8	6.7	B1/1000		
BH	(60°-80°)	223.8	3.0	B1/500		G1/500
BVH	(80°-90°)	4.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3
2.5°	693.6	695.0	692.3	686.8	681.4	674.7	663.8	646.2	643.5	631.3	617.8
5°	741.0	743.7	739.7	738.3	735.6	726.1	711.2	685.5	682.8	658.4	627.2
7.5°	757.3	761.4	758.6	758.6	758.6	754.6	747.8	724.8	720.7	689.6	642.1
10°	769.5	772.2	770.8	776.3	780.3	777.6	773.5	760.0	755.9	724.8	662.5
12.5°	788.4	789.8	791.2	793.9	800.6	803.3	802.0	789.8	787.1	765.4	688.2
15°	806.1	806.1	807.4	819.6	829.1	834.5	835.9	826.4	823.7	806.1	720.7
17.5°	822.3	823.7	827.7	841.3	857.5	868.4	875.1	871.1	867.0	853.5	758.6
20°	846.7	849.4	853.5	872.4	888.7	906.3	919.9	918.5	917.1	907.7	803.3
22.5°	888.7	891.4	898.2	915.8	932.0	953.7	976.8	975.4	971.3	964.6	856.2
25°	952.4	952.4	956.4	971.3	991.7	1017.4	1039.1	1043.1	1039.1	1035.0	922.6
27.5°	1032.3	1033.7	1033.7	1049.9	1068.9	1101.4	1128.5	1132.5	1132.5	1128.5	1012.0
30°	1143.4	1139.3	1136.6	1150.2	1170.5	1217.9	1265.3	1273.4	1269.4	1276.1	1138.0
32.5°	1334.4	1327.6	1304.6	1307.3	1319.5	1384.5	1464.5	1492.9	1491.5	1503.7	1341.2
35°	1598.6	1585.0	1551.2	1522.7	1521.3	1591.8	1713.7	1820.7	1819.4	1861.4	1650.0
37.5°	1896.6	1914.2	1850.5	1801.8	1786.9	1842.4	1999.6	2231.2	2243.4	2316.6	2055.1
40°	2294.9	2305.7	2224.4	2155.4	2084.9	2105.2	2312.5	2672.9	2694.5	2775.8	2460.2
42.5°	2641.7	2652.5	2605.1	2521.1	2431.7	2393.8	2628.2	3073.9	3091.5	3203.9	2877.4
45°	2877.4	2885.6	2901.8	2909.9	2808.3	2729.8	3014.3	3485.7	3507.4	3637.4	3285.2
47.5°	3061.7	3068.4	3101.0	3182.2	3161.9	3099.6	3407.1	3913.8	3919.2	4064.2	3682.1
50°	3147.0	3163.3	3243.2	3367.8	3457.2	3474.9	3833.9	4318.8	4333.7	4471.9	4057.4
52.5°	3052.2	3057.6	3259.5	3493.8	3674.0	3852.8	4261.9	4694.1	4737.5	4840.4	4394.7
55°	2732.5	2771.8	3077.9	3489.8	3844.7	4211.8	4719.8	5099.2	5138.5	5203.5	4691.4
57.5°	2361.3	2404.6	2777.2	3315.0	3917.8	4543.7	5143.9	5530.0	5557.1	5574.7	4963.7
60°	2040.2	2080.8	2464.2	2980.4	3844.7	4778.1	5538.1	5958.1	5981.1	5933.7	5100.5
62.5°	1646.0	1686.6	2072.7	2537.4	3557.5	4825.5	5830.7	6338.7	6348.2	6219.5	5016.5
65°	1240.9	1268.0	1590.4	1988.7	3054.9	4573.5	5897.1	6575.8	6566.3	6302.2	4764.5
66°	1112.2	1135.3	1419.7	1758.4	2793.4	4343.2	5807.7	6594.8	6585.3	6241.2	4599.3
67.5°	959.1	965.9	1200.3	1438.7	2336.9	3854.2	5535.4	6508.1	6516.2	6073.2	4297.2
70°	749.2	747.8	883.3	1001.1	1595.9	2742.0	4616.9	5962.1	6001.4	5439.2	3664.5
72.5°	479.6	463.3	541.9	612.3	929.3	1591.8	3366.5	4859.4	4925.8	4272.8	2729.8
75°	285.8	269.6	288.6	306.2	445.7	765.4	1979.2	3306.9	3370.5	2739.2	1624.3
77.5°	214.0	207.3	208.6	193.7	197.8	287.2	903.6	1747.6	1793.6	1121.7	616.4
80°	163.9	146.3	136.8	143.6	130.1	113.8	336.0	601.5	629.9	265.5	128.7
82.5°	109.7	94.8	88.1	96.2	82.6	63.7	81.3	116.5	113.8	71.8	50.1
85°	56.9	48.8	48.8	48.8	42.0	31.2	35.2	47.4	47.4	37.9	29.8
87.5°	16.3	14.9	17.6	16.3	12.2	12.2	13.5	16.3	16.3	14.9	13.5
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°	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3	608.3
2.5°	606.9	601.5	586.6	575.8	564.9	555.4	544.6	541.9	536.5	537.8	535.1
5°	611.0	596.1	570.3	546.0	527.0	510.7	490.4	482.3	471.4	467.4	464.7
7.5°	616.4	594.7	556.8	522.9	490.4	457.9	425.4	406.4	394.2	388.8	384.7
10°	628.6	600.1	550.0	497.2	441.6	395.6	363.1	349.5	341.4	340.0	338.7
12.5°	644.8	608.3	543.2	464.7	391.5	348.2	327.8	323.8	322.4	322.4	321.1
15°	669.2	621.8	532.4	426.7	352.2	322.4	312.9	306.2	303.5	303.5	303.5
17.5°	693.6	638.1	516.1	387.4	325.1	306.2	296.7	292.6	289.9	291.3	289.9
20°	724.8	657.0	494.5	353.6	307.5	292.6	283.1	279.1	277.7	277.7	277.7
22.5°	760.0	678.7	467.4	327.8	292.6	279.1	269.6	265.5	262.8	264.2	264.2
25°	807.4	705.8	438.9	302.1	277.7	265.5	254.7	249.3	249.3	250.6	252.0
27.5°	868.4	738.3	410.5	285.8	264.2	252.0	239.8	234.4	235.7	238.4	238.4
30°	957.8	783.0	382.0	268.2	249.3	235.7	224.9	219.5	222.2	227.6	227.6
32.5°	1085.1	856.2	357.6	247.9	227.6	212.7	201.9	197.8	204.6	215.4	215.4
35°	1312.7	990.3	342.7	227.6	204.6	187.0	173.4	169.3	178.8	192.4	192.4
37.5°	1617.5	1205.7	348.2	210.0	185.6	165.3	150.4	145.0	151.7	163.9	168.0
40°	1957.6	1465.8	395.6	195.1	168.0	147.7	132.8	127.3	131.4	136.8	138.2
42.5°	2297.6	1742.2	485.0	184.2	154.4	132.8	119.2	115.2	117.9	119.2	120.6
45°	2636.3	2015.8	597.4	177.5	142.2	120.6	107.0	107.0	108.4	108.4	108.4
47.5°	2957.4	2282.7	715.3	176.1	131.4	108.4	97.5	98.9	98.9	100.2	100.2
50°	3260.8	2521.1	834.5	180.2	121.9	97.5	89.4	89.4	89.4	90.8	89.4
52.5°	3514.1	2729.8	959.1	187.0	112.4	89.4	81.3	81.3	81.3	82.6	81.3
55°	3753.9	2919.4	1086.5	196.4	104.3	82.6	74.5	71.8	71.8	73.2	71.8
57.5°	3949.0	3045.4	1207.1	197.8	97.5	75.9	69.1	65.0	65.0	65.0	65.0
60°	3957.1	2972.3	1242.3	173.4	89.4	69.1	62.3	56.9	58.3	58.3	58.3
62.5°	3698.4	2587.5	998.4	130.1	79.9	62.3	56.9	51.5	51.5	51.5	51.5
65°	3190.4	2013.1	585.2	103.0	69.1	55.5	50.1	46.1	46.1	46.1	44.7
66°	2951.9	1765.2	448.4	93.5	65.0	54.2	48.8	44.7	43.4	42.0	42.0
67.5°	2563.1	1395.4	280.4	82.6	59.6	50.1	44.7	40.6	39.3	37.9	37.9
70°	1930.5	886.0	136.8	63.7	51.5	43.4	39.3	35.2	33.9	32.5	31.2
72.5°	1354.7	518.9	71.8	48.8	42.0	37.9	33.9	29.8	28.4	27.1	27.1
75°	765.4	250.6	47.4	35.2	33.9	31.2	28.4	24.4	23.0	23.0	23.0
77.5°	289.9	86.7	32.5	25.7	27.1	24.4	20.3	20.3	19.0	20.3	19.0
80°	75.9	37.9	20.3	19.0	20.3	17.6	14.9	16.3	16.3	16.3	16.3
82.5°	40.6	21.7	12.2	13.5	12.2	12.2	9.5	10.8	12.2	10.8	12.2
85°	28.4	10.8	6.8	6.8	5.4	5.4	4.1	5.4	6.8	5.4	5.4
87.5°	14.9	4.1	4.1	4.1	4.1	2.7	1.4	0.0	1.4	1.4	1.4
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)