

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: P1210042

Luminaire Tested: **ARCH1-60-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210042
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: ARCH1-60-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4908 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 60
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



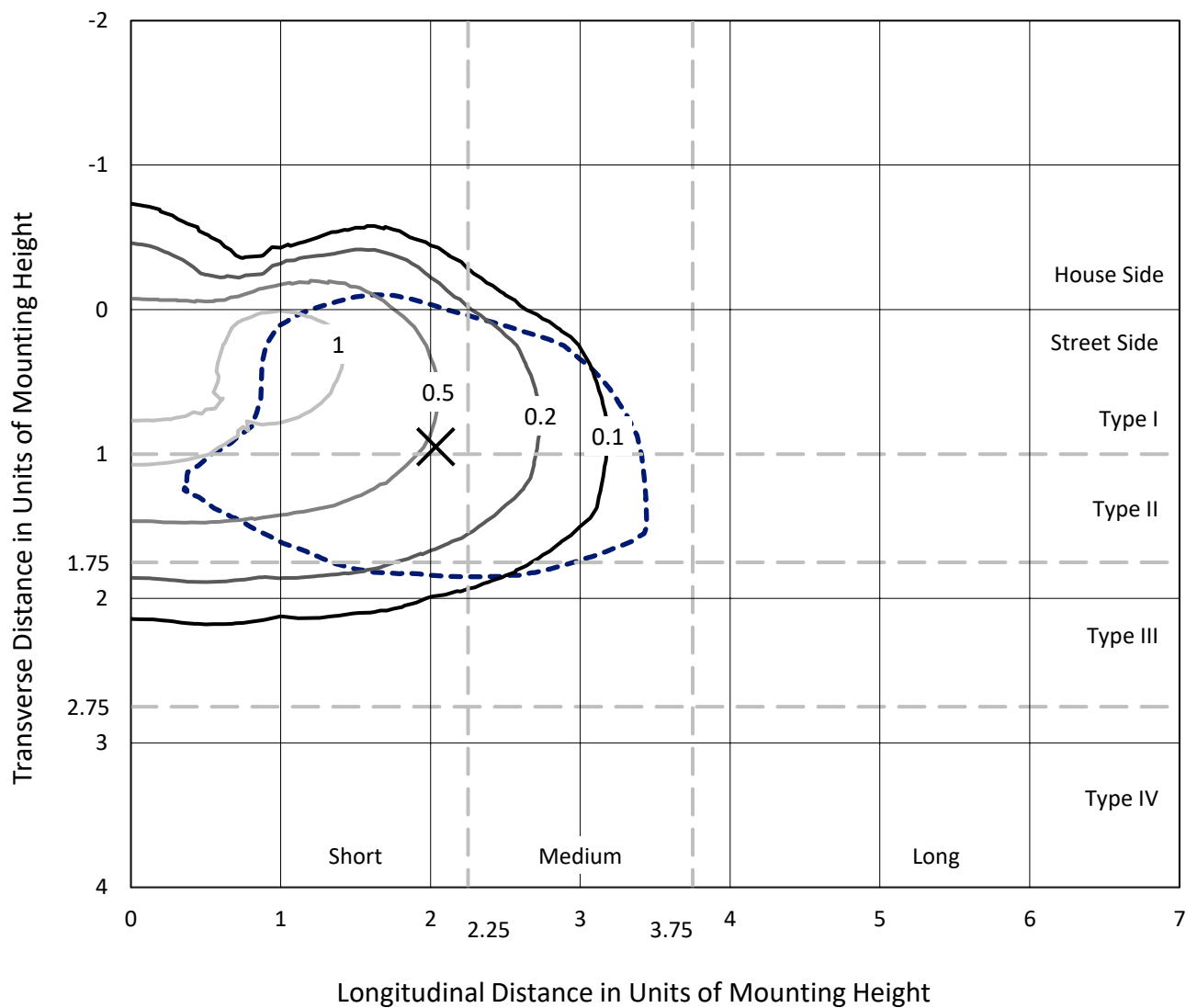
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Iso-Footcandle Lines of Horizontal Illumination

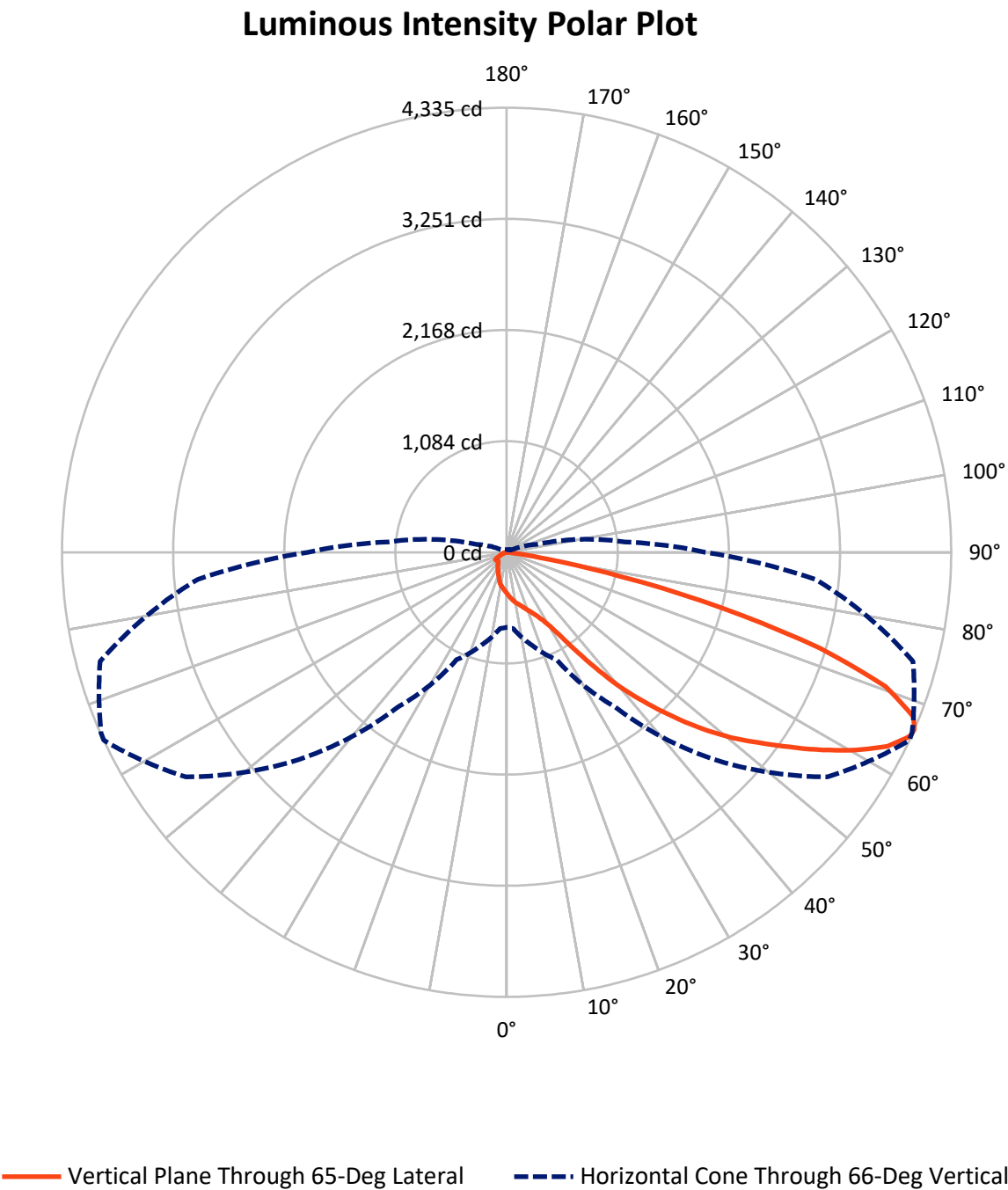
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.3	0.0	579.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4328.8	0.0	4328.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	4908.0	0.0	4908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.8
10°-20°	112.2	2.3
20°-30°	205.4	4.2
30°-40°	417.4	8.5
40°-50°	881.3	18.0
50°-60°	1354.9	27.6
60°-70°	1363.8	27.8
70°-80°	509.6	10.4
80°-90°	25.5	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°	4908.0	100.0
0°-180°	4908.0	100.0

Coefficient of Utilization



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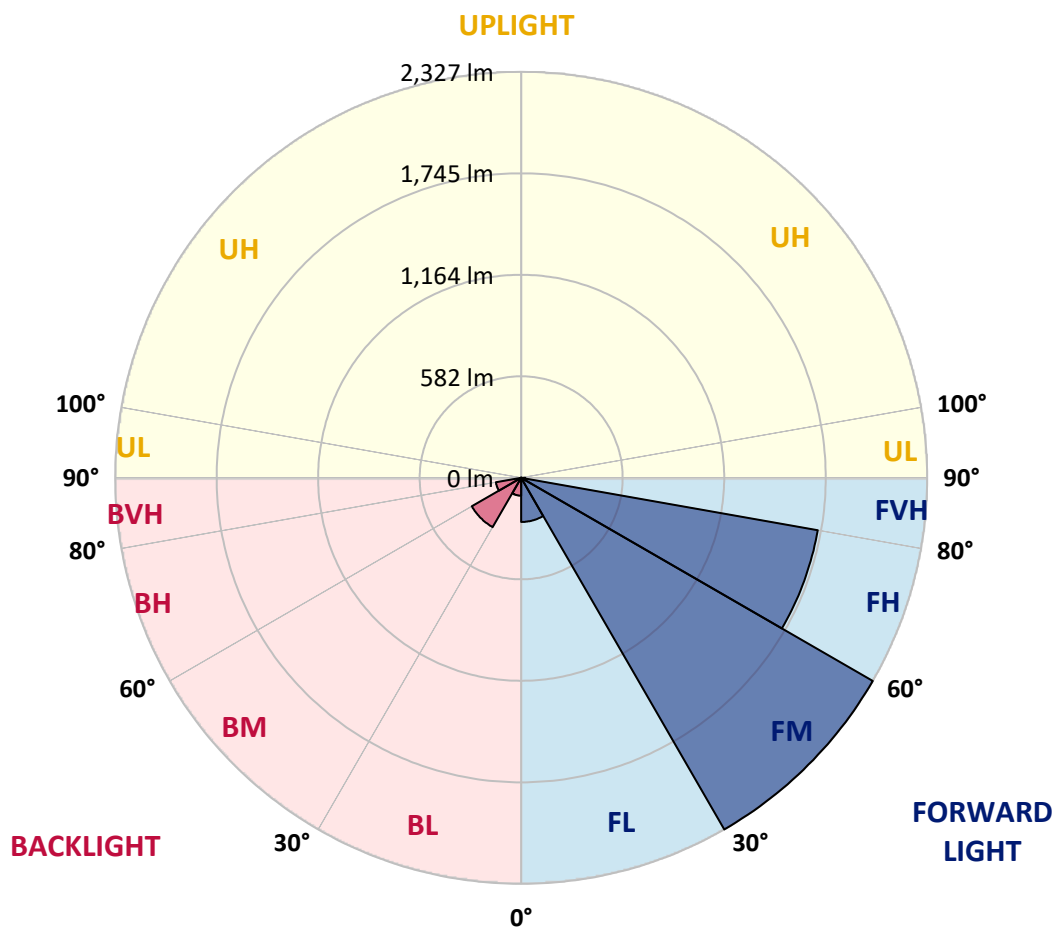
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.0	5.2			
FM	(30°-60°)	2327.0	47.4			
FH	(60°-80°)	1726.3	35.2			G1/1800
FVH	(80°-90°)	22.5	0.5			G1/100
BL	(0°-30°)	102.5	2.1	B0/110		
BM	(30°-60°)	326.6	6.7	B1/1000		
BH	(60°-80°)	147.1	3.0	B1/500		G1/500
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: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9
2.5°	456.0	456.9	455.1	451.5	448.0	443.5	436.4	424.8	423.0	415.0	406.1
5°	487.1	488.9	486.2	485.4	483.6	477.3	467.5	450.6	448.8	432.8	412.3
7.5°	497.8	500.5	498.7	498.7	498.7	496.0	491.6	476.5	473.8	453.3	422.1
10°	505.8	507.6	506.7	510.3	513.0	511.2	508.5	499.6	496.9	476.5	435.5
12.5°	518.3	519.2	520.1	521.9	526.3	528.1	527.2	519.2	517.4	503.2	452.4
15°	529.9	529.9	530.8	538.8	545.0	548.6	549.5	543.2	541.5	529.9	473.8
17.5°	540.6	541.5	544.1	553.0	563.7	570.9	575.3	572.6	570.0	561.1	498.7
20°	556.6	558.4	561.1	573.5	584.2	595.8	604.7	603.8	602.9	596.7	528.1
22.5°	584.2	586.0	590.4	602.0	612.7	627.0	642.1	641.2	638.5	634.1	562.8
25°	626.1	626.1	628.7	638.5	651.9	668.8	683.1	685.7	683.1	680.4	606.5
27.5°	678.6	679.5	679.5	690.2	702.7	724.0	741.8	744.5	744.5	741.8	665.3
30°	751.6	749.0	747.2	756.1	769.4	800.6	831.8	837.1	834.5	838.9	748.1
32.5°	877.2	872.8	857.6	859.4	867.4	910.2	962.7	981.4	980.5	988.5	881.7
35°	1050.9	1042.0	1019.7	1001.0	1000.1	1046.4	1126.6	1196.9	1196.0	1223.6	1084.7
37.5°	1246.8	1258.4	1216.5	1184.5	1174.7	1211.2	1314.5	1466.8	1474.8	1522.9	1351.0
40°	1508.6	1515.7	1462.3	1416.9	1370.6	1383.9	1520.2	1757.1	1771.3	1824.8	1617.3
42.5°	1736.6	1743.7	1712.6	1657.3	1598.6	1573.6	1727.7	2020.7	2032.3	2106.2	1891.6
45°	1891.6	1896.9	1907.6	1912.9	1846.1	1794.5	1981.5	2291.4	2305.7	2391.2	2159.6
47.5°	2012.7	2017.1	2038.5	2091.9	2078.6	2037.6	2239.8	2572.8	2576.4	2671.7	2420.6
50°	2068.8	2079.5	2132.0	2213.9	2272.7	2284.3	2520.3	2839.1	2848.9	2939.8	2667.2
52.5°	2006.4	2010.0	2142.7	2296.8	2415.2	2532.8	2801.7	3085.8	3114.3	3182.0	2889.0
55°	1796.3	1822.1	2023.4	2294.1	2527.4	2768.8	3102.7	3352.1	3377.9	3420.7	3084.0
57.5°	1552.3	1580.8	1825.7	2179.2	2575.5	2987.0	3381.5	3635.3	3653.1	3664.7	3263.0
60°	1341.2	1367.9	1619.9	1959.2	2527.4	3141.0	3640.6	3916.7	3931.8	3900.7	3353.0
62.5°	1082.0	1108.8	1362.6	1668.0	2338.6	3172.2	3833.0	4167.0	4173.2	4088.6	3297.8
65°	815.8	833.6	1045.5	1307.4	2008.2	3006.5	3876.6	4322.8	4316.6	4142.9	3132.1
66°	731.2	746.3	933.3	1156.0	1836.3	2855.2	3817.9	4335.3	4329.0	4102.8	3023.5
67.5°	630.5	635.0	789.0	945.8	1536.2	2533.7	3638.9	4278.3	4283.6	3992.4	2824.9
70°	492.5	491.6	580.6	658.1	1049.1	1802.5	3035.0	3919.4	3945.2	3575.6	2409.0
72.5°	315.3	304.6	356.2	402.5	610.9	1046.4	2213.1	3194.5	3238.1	2808.8	1794.5
75°	187.9	177.2	189.7	201.3	293.0	503.2	1301.1	2173.9	2215.7	1800.7	1067.8
77.5°	140.7	136.3	137.1	127.4	130.0	188.8	594.0	1148.8	1179.1	737.4	405.2
80°	107.8	96.2	89.9	94.4	85.5	74.8	220.9	395.4	414.1	174.6	84.6
82.5°	72.1	62.3	57.9	63.2	54.3	41.9	53.4	76.6	74.8	47.2	33.0
85°	37.4	32.1	32.1	32.1	27.6	20.5	23.2	31.2	31.2	24.9	19.6
87.5°	10.7	9.8	11.6	10.7	8.0	8.0	8.9	10.7	10.7	9.8	8.9
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°	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9	399.9
2.5°	399.0	395.4	385.6	378.5	371.4	365.1	358.0	356.2	352.7	353.6	351.8
5°	401.6	391.8	374.9	358.9	346.4	335.7	322.4	317.0	309.9	307.2	305.5
7.5°	405.2	391.0	366.0	343.8	322.4	301.0	279.6	267.2	259.2	255.6	252.9
10°	413.2	394.5	361.6	326.8	290.3	260.0	238.7	229.8	224.4	223.5	222.6
12.5°	423.9	399.9	357.1	305.5	257.4	228.9	215.5	212.8	212.0	212.0	211.1
15°	439.9	408.8	350.0	280.5	231.5	212.0	205.7	201.3	199.5	199.5	199.5
17.5°	456.0	419.5	339.3	254.7	213.7	201.3	195.0	192.4	190.6	191.5	190.6
20°	476.5	431.9	325.1	232.4	202.2	192.4	186.1	183.5	182.6	182.6	182.6
22.5°	499.6	446.2	307.2	215.5	192.4	183.5	177.2	174.6	172.8	173.7	173.7
25°	530.8	464.0	288.5	198.6	182.6	174.6	167.4	163.9	163.9	164.8	165.6
27.5°	570.9	485.4	269.8	187.9	173.7	165.6	157.6	154.1	155.0	156.7	156.7
30°	629.6	514.7	251.1	176.3	163.9	155.0	147.8	144.3	146.1	149.6	149.6
32.5°	713.3	562.8	235.1	163.0	149.6	139.8	132.7	130.0	134.5	141.6	141.6
35°	863.0	651.0	225.3	149.6	134.5	122.9	114.0	111.3	117.6	126.5	126.5
37.5°	1063.3	792.6	228.9	138.0	122.0	108.6	98.9	95.3	99.7	107.8	110.4
40°	1286.9	963.6	260.0	128.2	110.4	97.1	87.3	83.7	86.4	89.9	90.8
42.5°	1510.4	1145.3	318.8	121.1	101.5	87.3	78.4	75.7	77.5	78.4	79.3
45°	1733.0	1325.2	392.7	116.7	93.5	79.3	70.4	70.4	71.2	71.2	71.2
47.5°	1944.1	1500.6	470.2	115.8	86.4	71.2	64.1	65.0	65.0	65.9	65.9
50°	2143.6	1657.3	548.6	118.4	80.2	64.1	58.8	58.8	58.8	59.7	58.8
52.5°	2310.1	1794.5	630.5	122.9	73.9	58.8	53.4	53.4	53.4	54.3	53.4
55°	2467.8	1919.2	714.2	129.1	68.6	54.3	49.0	47.2	47.2	48.1	47.2
57.5°	2596.0	2002.0	793.5	130.0	64.1	49.9	45.4	42.7	42.7	42.7	42.7
60°	2601.3	1953.9	816.6	114.0	58.8	45.4	41.0	37.4	38.3	38.3	38.3
62.5°	2431.2	1701.0	656.3	85.5	52.5	41.0	37.4	33.8	33.8	33.8	33.8
65°	2097.3	1323.4	384.7	67.7	45.4	36.5	33.0	30.3	30.3	30.3	29.4
66°	1940.5	1160.4	294.8	61.4	42.7	35.6	32.1	29.4	28.5	27.6	27.6
67.5°	1684.9	917.3	184.3	54.3	39.2	33.0	29.4	26.7	25.8	24.9	24.9
70°	1269.1	582.4	89.9	41.9	33.8	28.5	25.8	23.2	22.3	21.4	20.5
72.5°	890.6	341.1	47.2	32.1	27.6	24.9	22.3	19.6	18.7	17.8	17.8
75°	503.2	164.8	31.2	23.2	22.3	20.5	18.7	16.0	15.1	15.1	15.1
77.5°	190.6	57.0	21.4	16.9	17.8	16.0	13.4	13.4	12.5	13.4	12.5
80°	49.9	24.9	13.4	12.5	13.4	11.6	9.8	10.7	10.7	10.7	10.7
82.5°	26.7	14.2	8.0	8.9	8.0	8.0	6.2	7.1	8.0	7.1	8.0
85°	18.7	7.1	4.5	4.5	3.6	3.6	2.7	3.6	4.5	3.6	3.6
87.5°	9.8	2.7	2.7	2.7	2.7	1.8	0.9	0.0	0.9	0.9	0.9
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)