

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: P1210698

Luminaire Tested: **ARCH3-40-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210698
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: ARCH3-40-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5253 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

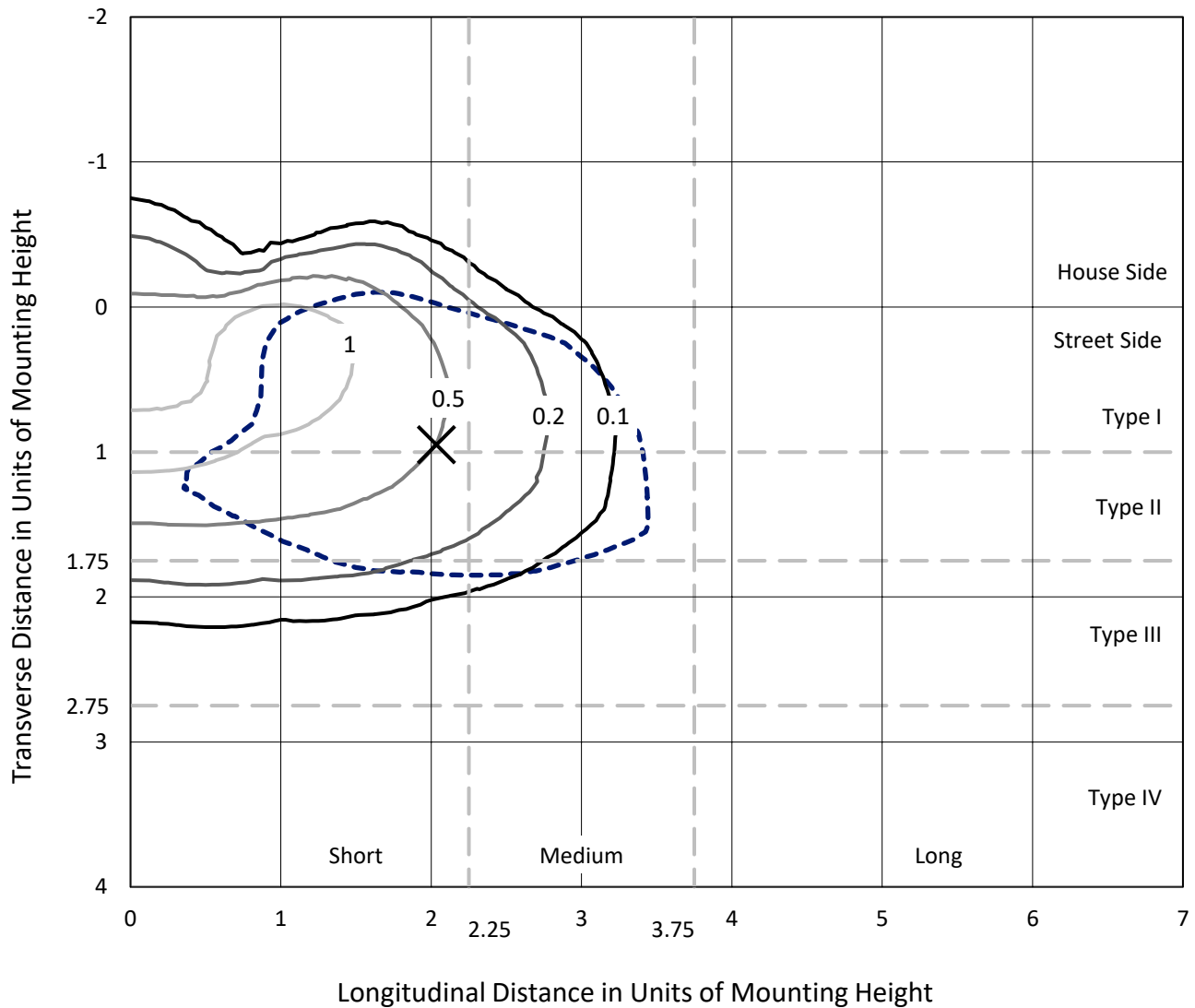
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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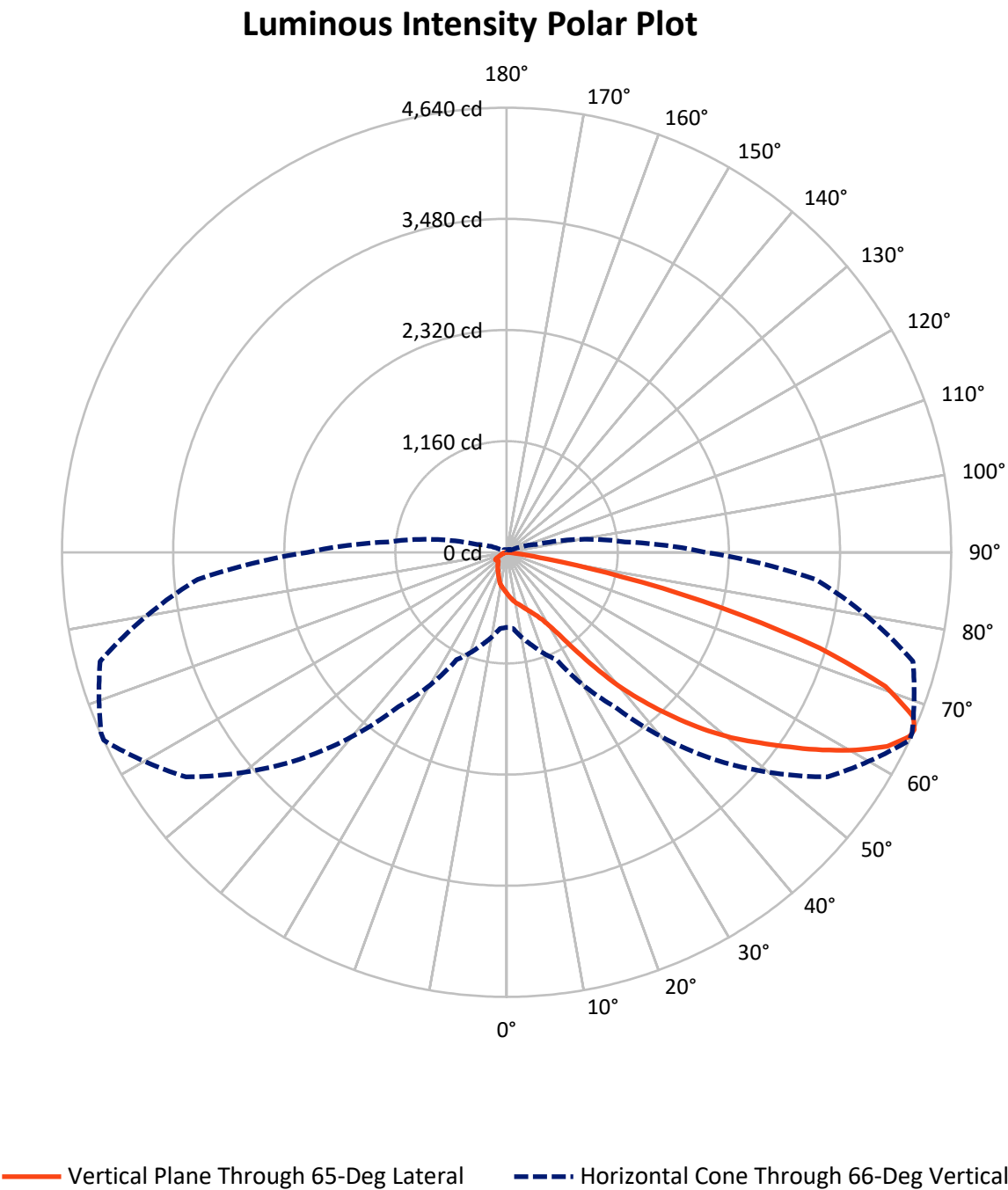
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	620.0	0.0	620.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4633.0	0.0	4633.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	5253.0	0.0	5253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	0.8
10°-20°	120.1	2.3
20°-30°	219.8	4.2
30°-40°	446.7	8.5
40°-50°	943.3	18.0
50°-60°	1450.2	27.6
60°-70°	1459.7	27.8
70°-80°	545.4	10.4
80°-90°	27.3	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°	5253.0	100.0
0°-180°	5253.0	100.0

Coefficient of Utilization



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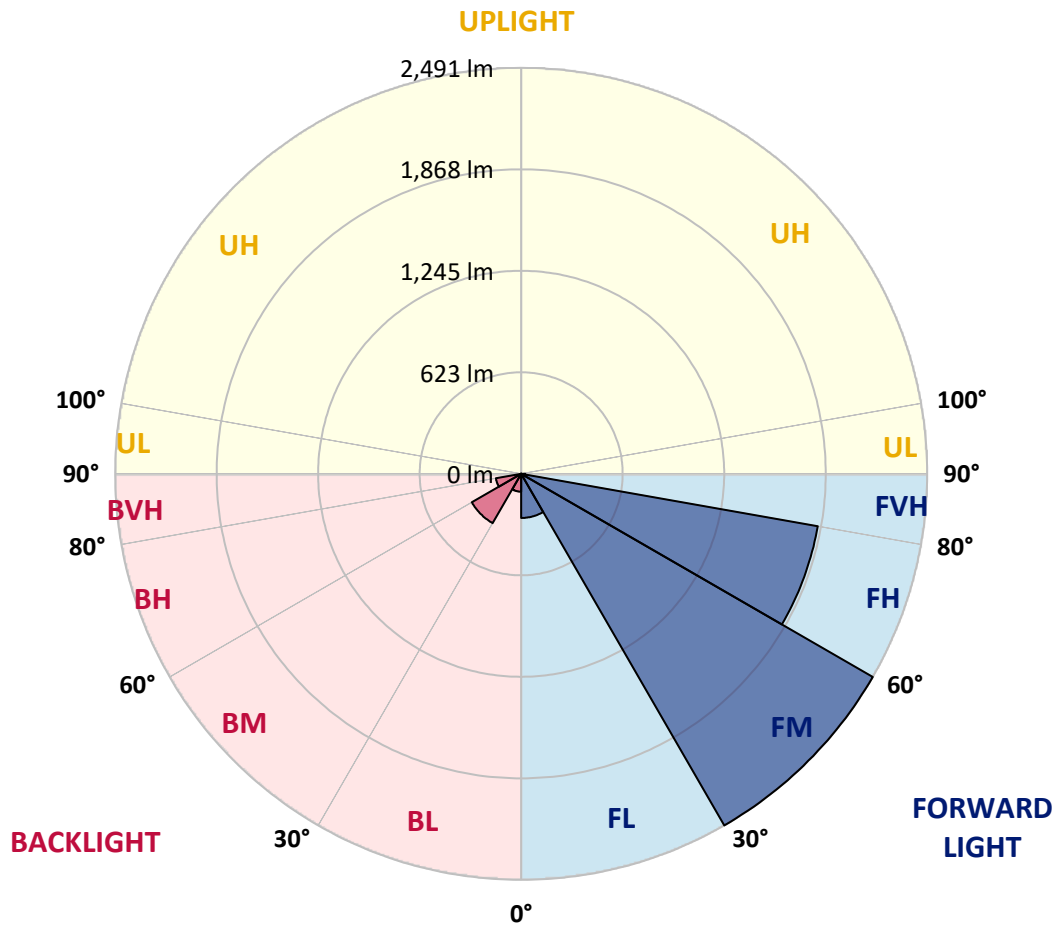
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.8	5.2			
FM	(30°-60°)	2490.6	47.4			
FH	(60°-80°)	1847.6	35.2			G2/5000
FVH	(80°-90°)	24.0	0.5			G1/100
BL	(0°-30°)	109.7	2.1	B0/110		
BM	(30°-60°)	349.5	6.7	B1/1000		
BH	(60°-80°)	157.5	3.0	B1/500		G1/500
BVH	(80°-90°)	3.2	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°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	488.0	489.0	487.1	483.3	479.4	474.7	467.1	454.7	452.8	444.2	434.6
5°	521.4	523.3	520.4	519.5	517.6	510.9	500.4	482.3	480.4	463.2	441.3
7.5°	532.8	535.7	533.8	533.8	533.8	530.9	526.1	509.9	507.1	485.2	451.8
10°	541.4	543.3	542.4	546.2	549.0	547.1	544.3	534.7	531.9	509.9	466.1
12.5°	554.7	555.7	556.6	558.6	563.3	565.2	564.3	555.7	553.8	538.5	484.2
15°	567.1	567.1	568.1	576.7	583.3	587.2	588.1	581.4	579.5	567.1	507.1
17.5°	578.6	579.5	582.4	591.9	603.4	611.0	615.7	612.9	610.0	600.5	533.8
20°	595.7	597.6	600.5	613.8	625.3	637.7	647.2	646.2	645.3	638.6	565.2
22.5°	625.3	627.2	631.9	644.3	655.8	671.0	687.2	686.3	683.4	678.7	602.4
25°	670.1	670.1	672.9	683.4	697.7	715.8	731.1	733.9	731.1	728.2	649.1
27.5°	726.3	727.3	727.3	738.7	752.0	774.9	794.0	796.8	796.8	794.0	712.0
30°	804.5	801.6	799.7	809.2	823.5	856.9	890.3	896.0	893.1	897.9	800.7
32.5°	938.9	934.1	917.9	919.8	928.4	974.1	1030.4	1050.4	1049.4	1058.0	943.6
35°	1124.7	1115.2	1091.4	1071.4	1070.4	1120.0	1205.8	1281.1	1280.1	1309.7	1161.0
37.5°	1334.4	1346.8	1302.0	1267.7	1257.2	1296.3	1406.9	1569.9	1578.4	1629.9	1446.0
40°	1614.7	1622.3	1565.1	1516.5	1466.9	1481.2	1627.1	1880.6	1895.8	1953.0	1731.0
42.5°	1858.7	1866.3	1832.9	1773.8	1710.9	1684.2	1849.1	2162.7	2175.1	2254.2	2024.5
45°	2024.5	2030.2	2041.7	2047.4	1975.9	1920.6	2120.8	2452.5	2467.7	2559.3	2311.4
47.5°	2154.2	2158.9	2181.8	2239.0	2224.7	2180.8	2397.2	2753.7	2757.5	2859.5	2590.7
50°	2214.2	2225.6	2281.9	2369.6	2432.5	2444.9	2697.5	3038.7	3049.2	3146.4	2854.7
52.5°	2147.5	2151.3	2293.3	2458.2	2585.0	2710.8	2998.7	3302.7	3333.2	3405.7	3092.1
55°	1922.5	1950.2	2165.6	2455.4	2705.1	2963.4	3320.8	3587.7	3615.4	3661.1	3300.8
57.5°	1661.4	1691.9	1954.0	2332.4	2756.6	3196.9	3619.2	3890.8	3909.9	3922.3	3492.4
60°	1435.5	1464.1	1733.8	2097.0	2705.1	3361.8	3896.5	4192.0	4208.2	4174.9	3588.7
62.5°	1158.1	1186.7	1458.3	1785.3	2503.0	3395.2	4102.4	4459.9	4466.5	4376.0	3529.6
65°	873.1	892.2	1119.0	1399.2	2149.4	3217.9	4149.1	4626.7	4620.0	4434.1	3352.3
66°	782.5	798.8	998.9	1237.2	1965.4	3055.9	4086.2	4640.0	4633.3	4391.2	3236.0
67.5°	674.8	679.6	844.5	1012.3	1644.2	2711.8	3894.6	4579.0	4584.7	4273.0	3023.4
70°	527.1	526.1	621.5	704.4	1122.8	1929.2	3248.4	4194.9	4222.5	3827.0	2578.3
72.5°	337.4	326.0	381.3	430.8	653.9	1120.0	2368.6	3419.0	3465.7	3006.3	1920.6
75°	201.1	189.7	203.0	215.4	313.6	538.5	1392.6	2326.7	2371.5	1927.3	1142.8
77.5°	150.6	145.8	146.8	136.3	139.2	202.1	635.8	1229.6	1262.0	789.2	433.7
80°	115.3	102.9	96.3	101.0	91.5	80.1	236.4	423.2	443.2	186.8	90.6
82.5°	77.2	66.7	62.0	67.7	58.1	44.8	57.2	82.0	80.1	50.5	35.3
85°	40.0	34.3	34.3	34.3	29.5	21.9	24.8	33.4	33.4	26.7	21.0
87.5°	11.4	10.5	12.4	11.4	8.6	8.6	9.5	11.4	11.4	10.5	9.5
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°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	427.0	423.2	412.7	405.1	397.5	390.8	383.2	381.3	377.5	378.4	376.5
5°	429.9	419.4	401.3	384.1	370.8	359.3	345.0	339.3	331.7	328.8	326.9
7.5°	433.7	418.4	391.8	367.9	345.0	322.2	299.3	285.9	277.4	273.6	270.7
10°	442.3	422.3	387.0	349.8	310.7	278.3	255.4	245.9	240.2	239.2	238.3
12.5°	453.7	428.0	382.2	326.9	275.5	245.0	230.7	227.8	226.9	226.9	225.9
15°	470.9	437.5	374.6	300.2	247.8	226.9	220.2	215.4	213.5	213.5	213.5
17.5°	488.0	448.9	363.2	272.6	228.8	215.4	208.7	205.9	204.0	204.9	204.0
20°	509.9	462.3	347.9	248.8	216.4	205.9	199.2	196.4	195.4	195.4	195.4
22.5°	534.7	477.5	328.8	230.7	205.9	196.4	189.7	186.8	184.9	185.9	185.9
25°	568.1	496.6	308.8	212.6	195.4	186.8	179.2	175.4	175.4	176.3	177.3
27.5°	611.0	519.5	288.8	201.1	185.9	177.3	168.7	164.9	165.9	167.8	167.8
30°	673.9	550.9	268.8	188.7	175.4	165.9	158.2	154.4	156.3	160.1	160.1
32.5°	763.5	602.4	251.6	174.4	160.1	149.6	142.0	139.2	143.9	151.6	151.6
35°	923.6	696.8	241.2	160.1	143.9	131.5	122.0	119.1	125.8	135.3	135.3
37.5°	1138.1	848.3	245.0	147.7	130.6	116.3	105.8	102.0	106.8	115.3	118.2
40°	1377.3	1031.3	278.3	137.3	118.2	103.9	93.4	89.6	92.5	96.3	97.2
42.5°	1616.6	1225.8	341.2	129.6	108.7	93.4	83.9	81.0	82.9	83.9	84.8
45°	1854.9	1418.3	420.3	124.9	100.1	84.8	75.3	75.3	76.3	76.3	76.3
47.5°	2080.8	1606.1	503.3	123.9	92.5	76.3	68.6	69.6	69.6	70.5	70.5
50°	2294.3	1773.8	587.2	126.8	85.8	68.6	62.9	62.9	62.9	63.9	62.9
52.5°	2472.5	1920.6	674.8	131.5	79.1	62.9	57.2	57.2	57.2	58.1	57.2
55°	2641.2	2054.1	764.4	138.2	73.4	58.1	52.4	50.5	50.5	51.5	50.5
57.5°	2778.5	2142.7	849.3	139.2	68.6	53.4	48.6	45.8	45.8	45.8	45.8
60°	2784.2	2091.2	874.1	122.0	62.9	48.6	43.8	40.0	41.0	41.0	41.0
62.5°	2602.1	1820.5	702.5	91.5	56.2	43.8	40.0	36.2	36.2	36.2	36.2
65°	2244.7	1416.4	411.8	72.4	48.6	39.1	35.3	32.4	32.4	32.4	31.5
66°	2076.9	1242.0	315.5	65.8	45.8	38.1	34.3	31.5	30.5	29.5	29.5
67.5°	1803.4	981.8	197.3	58.1	41.9	35.3	31.5	28.6	27.6	26.7	26.7
70°	1358.3	623.4	96.3	44.8	36.2	30.5	27.6	24.8	23.8	22.9	21.9
72.5°	953.2	365.1	50.5	34.3	29.5	26.7	23.8	21.0	20.0	19.1	19.1
75°	538.5	176.3	33.4	24.8	23.8	21.9	20.0	17.2	16.2	16.2	16.2
77.5°	204.0	61.0	22.9	18.1	19.1	17.2	14.3	14.3	13.3	14.3	13.3
80°	53.4	26.7	14.3	13.3	14.3	12.4	10.5	11.4	11.4	11.4	11.4
82.5°	28.6	15.3	8.6	9.5	8.6	8.6	6.7	7.6	8.6	7.6	8.6
85°	20.0	7.6	4.8	4.8	3.8	3.8	2.9	3.8	4.8	3.8	3.8
87.5°	10.5	2.9	2.9	2.9	2.9	1.9	1.0	0.0	1.0	1.0	1.0
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)