

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: P1209994

Luminaire Tested: **ARCH1-40-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209994
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: ARCH1-40-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA 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: 4234 lumens
Efficiency: N/A
Efficacy: 98.5 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): 43
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

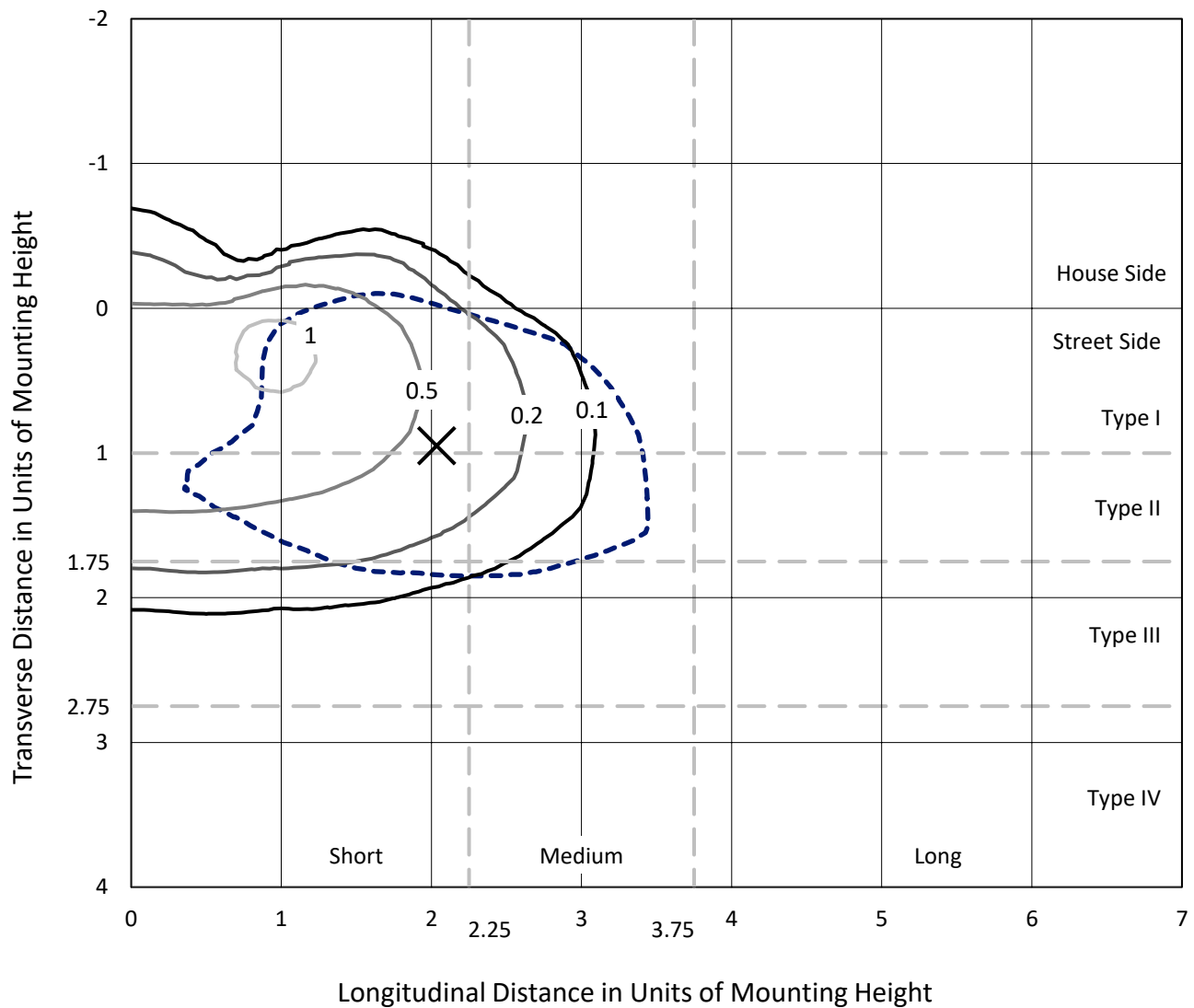


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Iso-Footcandle Lines of Horizontal Illumination

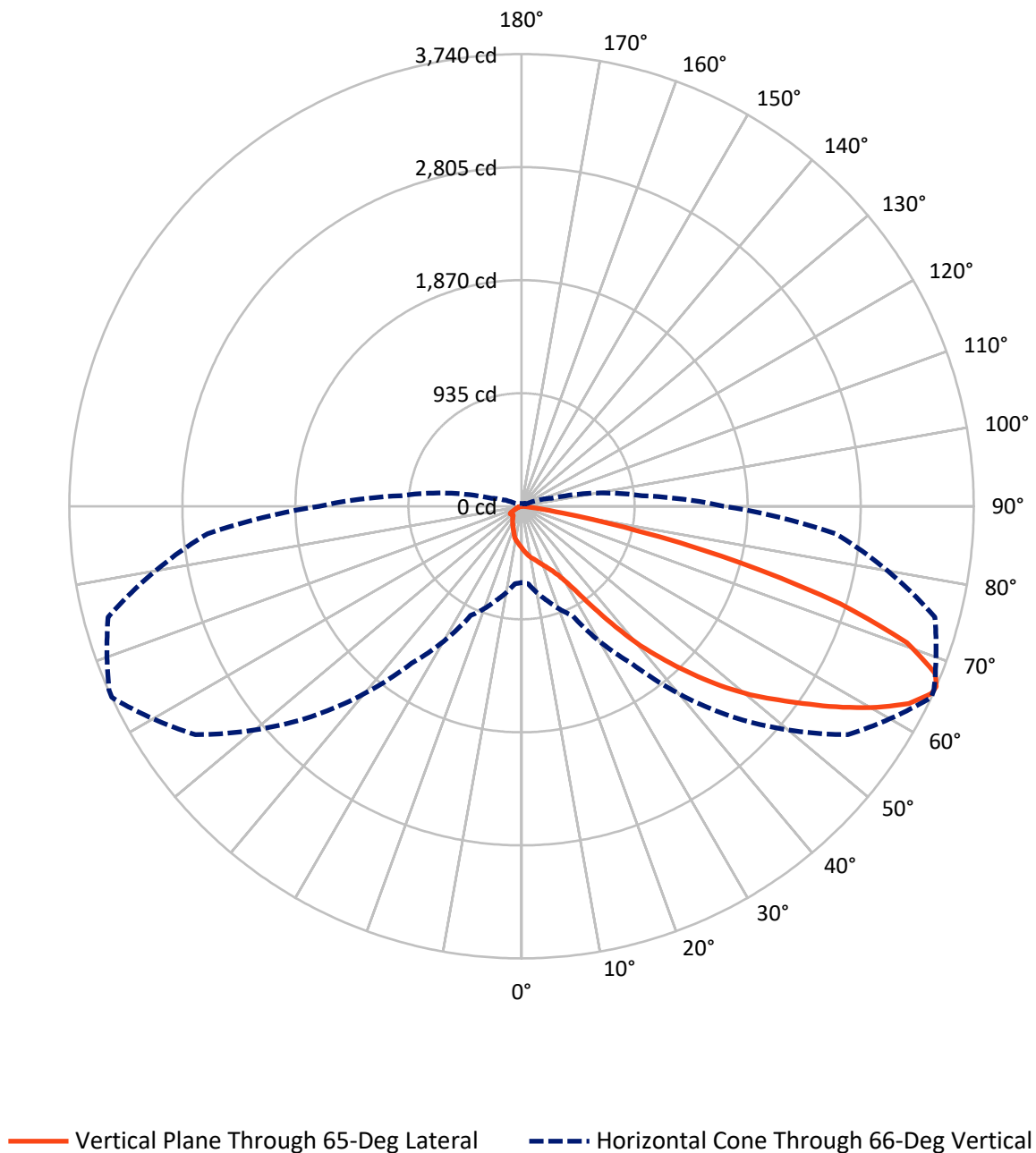
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	499.7	0.0	499.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3734.3	0.0	3734.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	4234.0	0.0	4234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	0.8
10°-20°	96.8	2.3
20°-30°	177.2	4.2
30°-40°	360.0	8.5
40°-50°	760.3	18.0
50°-60°	1168.8	27.6
60°-70°	1176.5	27.8
70°-80°	439.6	10.4
80°-90°	22.0	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°	4234.0	100.0
0°-180°	4234.0	100.0

Coefficient of Utilization



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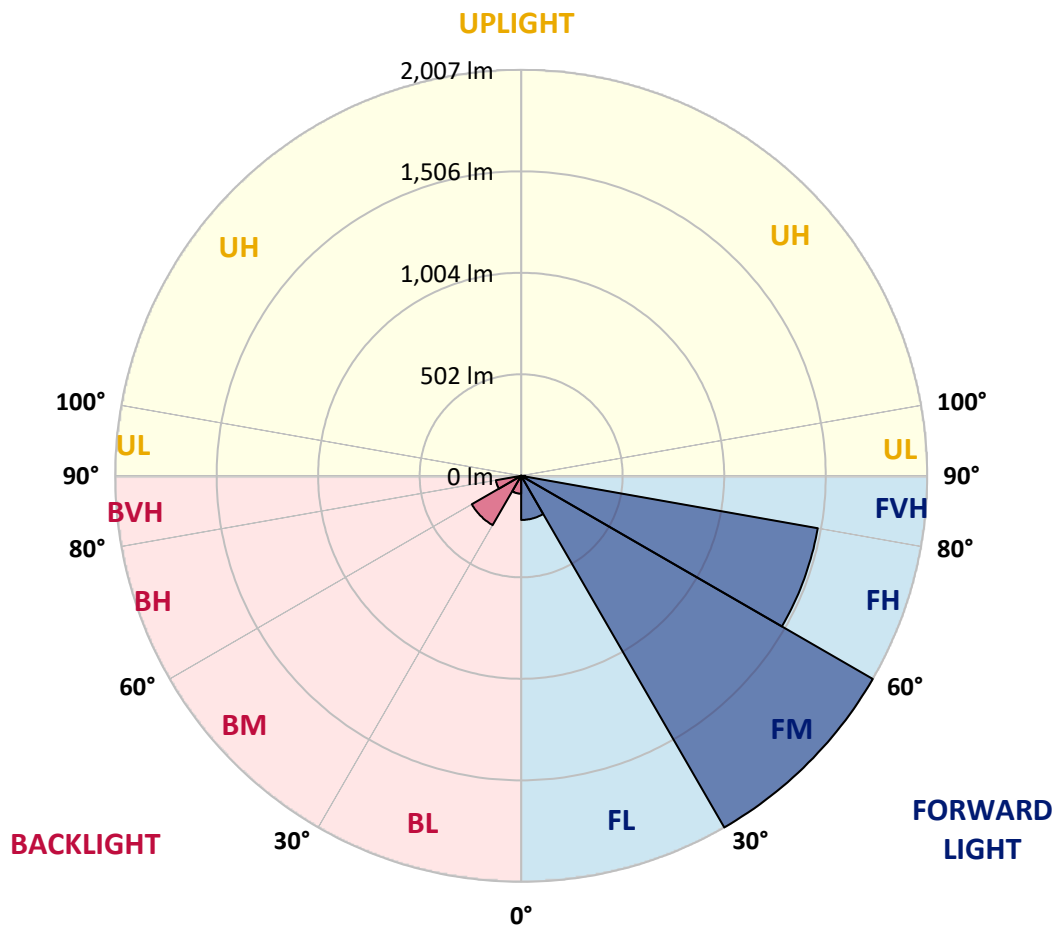
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.3	5.2			
FM	(30°-60°)	2007.5	47.4			
FH	(60°-80°)	1489.2	35.2			G1/1800
FVH	(80°-90°)	19.4	0.5			G1/100
BL	(0°-30°)	88.4	2.1	B0/110		
BM	(30°-60°)	281.7	6.7	B1/1000		
BH	(60°-80°)	126.9	3.0	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	393.4	394.1	392.6	389.5	386.4	382.6	376.5	366.5	364.9	358.0	350.3
5°	420.2	421.8	419.5	418.7	417.2	411.8	403.3	388.7	387.2	373.4	355.7
7.5°	429.5	431.8	430.2	430.2	430.2	427.9	424.1	411.0	408.7	391.0	364.2
10°	436.4	437.9	437.1	440.2	442.5	441.0	438.7	431.0	428.7	411.0	375.7
12.5°	447.1	447.9	448.7	450.2	454.0	455.6	454.8	447.9	446.4	434.1	390.3
15°	457.1	457.1	457.9	464.8	470.2	473.3	474.0	468.6	467.1	457.1	408.7
17.5°	466.3	467.1	469.4	477.1	486.3	492.5	496.3	494.0	491.7	484.0	430.2
20°	480.2	481.7	484.0	494.8	504.0	514.0	521.7	520.9	520.1	514.7	455.6
22.5°	504.0	505.5	509.4	519.3	528.6	540.9	553.9	553.2	550.8	547.0	485.5
25°	540.1	540.1	542.4	550.8	562.4	577.0	589.3	591.6	589.3	587.0	523.2
27.5°	585.4	586.2	586.2	595.4	606.2	624.6	640.0	642.3	642.3	640.0	573.9
30°	648.4	646.1	644.6	652.3	663.8	690.7	717.6	722.2	719.9	723.7	645.3
32.5°	756.7	752.9	739.8	741.4	748.3	785.2	830.5	846.6	845.9	852.8	760.6
35°	906.6	898.9	879.7	863.5	862.8	902.7	971.9	1032.6	1031.8	1055.6	935.7
37.5°	1075.6	1085.6	1049.5	1021.8	1013.3	1044.8	1134.0	1265.3	1272.3	1313.7	1165.5
40°	1301.4	1307.6	1261.5	1222.3	1182.4	1193.9	1311.4	1515.8	1528.1	1574.2	1395.2
42.5°	1498.1	1504.3	1477.4	1429.7	1379.0	1357.5	1490.4	1743.2	1753.2	1817.0	1631.8
45°	1631.8	1636.4	1645.6	1650.2	1592.6	1548.1	1709.4	1976.8	1989.0	2062.8	1863.0
47.5°	1736.3	1740.1	1758.6	1804.7	1793.1	1757.8	1932.2	2219.5	2222.6	2304.8	2088.1
50°	1784.7	1793.9	1839.2	1909.9	1960.6	1970.6	2174.2	2449.2	2457.7	2536.0	2301.0
52.5°	1730.9	1734.0	1848.5	1981.4	2083.5	2185.0	2417.0	2662.0	2686.6	2745.0	2492.3
55°	1549.6	1571.9	1745.5	1979.1	2180.3	2388.5	2676.6	2891.8	2914.0	2950.9	2660.5
57.5°	1339.1	1363.7	1574.9	1879.9	2221.8	2576.8	2917.1	3136.1	3151.4	3161.4	2814.9
60°	1157.0	1180.1	1397.5	1690.2	2180.3	2709.7	3140.7	3378.8	3391.9	3365.0	2892.5
62.5°	933.4	956.5	1175.4	1439.0	2017.5	2736.6	3306.6	3594.7	3600.1	3527.1	2844.9
65°	703.7	719.1	901.9	1127.8	1732.4	2593.7	3344.3	3729.2	3723.8	3574.0	2702.0
66°	630.7	643.8	805.1	997.2	1584.2	2463.1	3293.6	3739.9	3734.5	3539.4	2608.3
67.5°	543.9	547.8	680.7	815.9	1325.3	2185.7	3139.1	3690.8	3695.4	3444.1	2436.9
70°	424.9	424.1	500.9	567.7	905.0	1555.0	2618.3	3381.1	3403.4	3084.6	2078.2
72.5°	272.0	262.7	307.3	347.3	527.0	902.7	1909.1	2755.8	2793.4	2423.1	1548.1
75°	162.1	152.9	163.6	173.6	252.8	434.1	1122.4	1875.3	1911.4	1553.4	921.2
77.5°	121.4	117.5	118.3	109.9	112.2	162.9	512.4	991.1	1017.2	636.1	349.6
80°	93.0	83.0	77.6	81.4	73.8	64.5	190.5	341.1	357.2	150.6	73.0
82.5°	62.2	53.8	49.9	54.5	46.9	36.1	46.1	66.1	64.5	40.7	28.4
85°	32.3	27.7	27.7	27.7	23.8	17.7	20.0	26.9	26.9	21.5	16.9
87.5°	9.2	8.5	10.0	9.2	6.9	6.9	7.7	9.2	9.2	8.5	7.7
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°	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0
2.5°	344.2	341.1	332.7	326.5	320.4	315.0	308.8	307.3	304.2	305.0	303.5
5°	346.5	338.0	323.4	309.6	298.9	289.6	278.1	273.5	267.4	265.1	263.5
7.5°	349.6	337.3	315.8	296.6	278.1	259.7	241.2	230.5	223.6	220.5	218.2
10°	356.5	340.3	311.9	282.0	250.5	224.3	205.9	198.2	193.6	192.8	192.1
12.5°	365.7	345.0	308.1	263.5	222.0	197.4	185.9	183.6	182.8	182.8	182.1
15°	379.5	352.6	301.9	242.0	199.7	182.8	177.5	173.6	172.1	172.1	172.1
17.5°	393.4	361.9	292.7	219.7	184.4	173.6	168.3	165.9	164.4	165.2	164.4
20°	411.0	372.6	280.4	200.5	174.4	165.9	160.6	158.3	157.5	157.5	157.5
22.5°	431.0	384.9	265.1	185.9	165.9	158.3	152.9	150.6	149.0	149.8	149.8
25°	457.9	400.3	248.9	171.3	157.5	150.6	144.4	141.4	141.4	142.1	142.9
27.5°	492.5	418.7	232.8	162.1	149.8	142.9	136.0	132.9	133.7	135.2	135.2
30°	543.2	444.1	216.7	152.1	141.4	133.7	127.5	124.5	126.0	129.1	129.1
32.5°	615.4	485.5	202.8	140.6	129.1	120.6	114.5	112.2	116.0	122.2	122.2
35°	744.5	561.6	194.4	129.1	116.0	106.0	98.3	96.0	101.4	109.1	109.1
37.5°	917.3	683.8	197.4	119.1	105.3	93.7	85.3	82.2	86.0	93.0	95.3
40°	1110.1	831.3	224.3	110.6	95.3	83.7	75.3	72.2	74.5	77.6	78.4
42.5°	1303.0	988.0	275.0	104.5	87.6	75.3	67.6	65.3	66.8	67.6	68.4
45°	1495.0	1143.2	338.8	100.6	80.7	68.4	60.7	60.7	61.5	61.5	61.5
47.5°	1677.1	1294.5	405.6	99.9	74.5	61.5	55.3	56.1	56.1	56.9	56.9
50°	1849.2	1429.7	473.3	102.2	69.1	55.3	50.7	50.7	50.7	51.5	50.7
52.5°	1992.9	1548.1	543.9	106.0	63.8	50.7	46.1	46.1	46.1	46.9	46.1
55°	2128.9	1655.6	616.2	111.4	59.2	46.9	42.3	40.7	40.7	41.5	40.7
57.5°	2239.5	1727.1	684.5	112.2	55.3	43.0	39.2	36.9	36.9	36.9	36.9
60°	2244.1	1685.6	704.5	98.3	50.7	39.2	35.3	32.3	33.0	33.0	33.0
62.5°	2097.4	1467.4	566.2	73.8	45.3	35.3	32.3	29.2	29.2	29.2	29.2
65°	1809.3	1141.6	331.9	58.4	39.2	31.5	28.4	26.1	26.1	26.1	25.4
66°	1674.1	1001.1	254.3	53.0	36.9	30.7	27.7	25.4	24.6	23.8	23.8
67.5°	1453.6	791.3	159.0	46.9	33.8	28.4	25.4	23.0	22.3	21.5	21.5
70°	1094.8	502.4	77.6	36.1	29.2	24.6	22.3	20.0	19.2	18.4	17.7
72.5°	768.3	294.2	40.7	27.7	23.8	21.5	19.2	16.9	16.1	15.4	15.4
75°	434.1	142.1	26.9	20.0	19.2	17.7	16.1	13.8	13.1	13.1	13.1
77.5°	164.4	49.2	18.4	14.6	15.4	13.8	11.5	11.5	10.8	11.5	10.8
80°	43.0	21.5	11.5	10.8	11.5	10.0	8.5	9.2	9.2	9.2	9.2
82.5°	23.0	12.3	6.9	7.7	6.9	6.9	5.4	6.1	6.9	6.1	6.9
85°	16.1	6.1	3.8	3.8	3.1	3.1	2.3	3.1	3.8	3.1	3.1
87.5°	8.5	2.3	2.3	2.3	2.3	1.5	0.8	0.0	0.8	0.8	0.8
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)