

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: P1210374

Luminaire Tested: **ARCH3-100-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210374
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: ARCH3-100-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 805mA 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: 11432 lumens
Efficiency: N/A
Efficacy: 111.4 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): 102.6
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



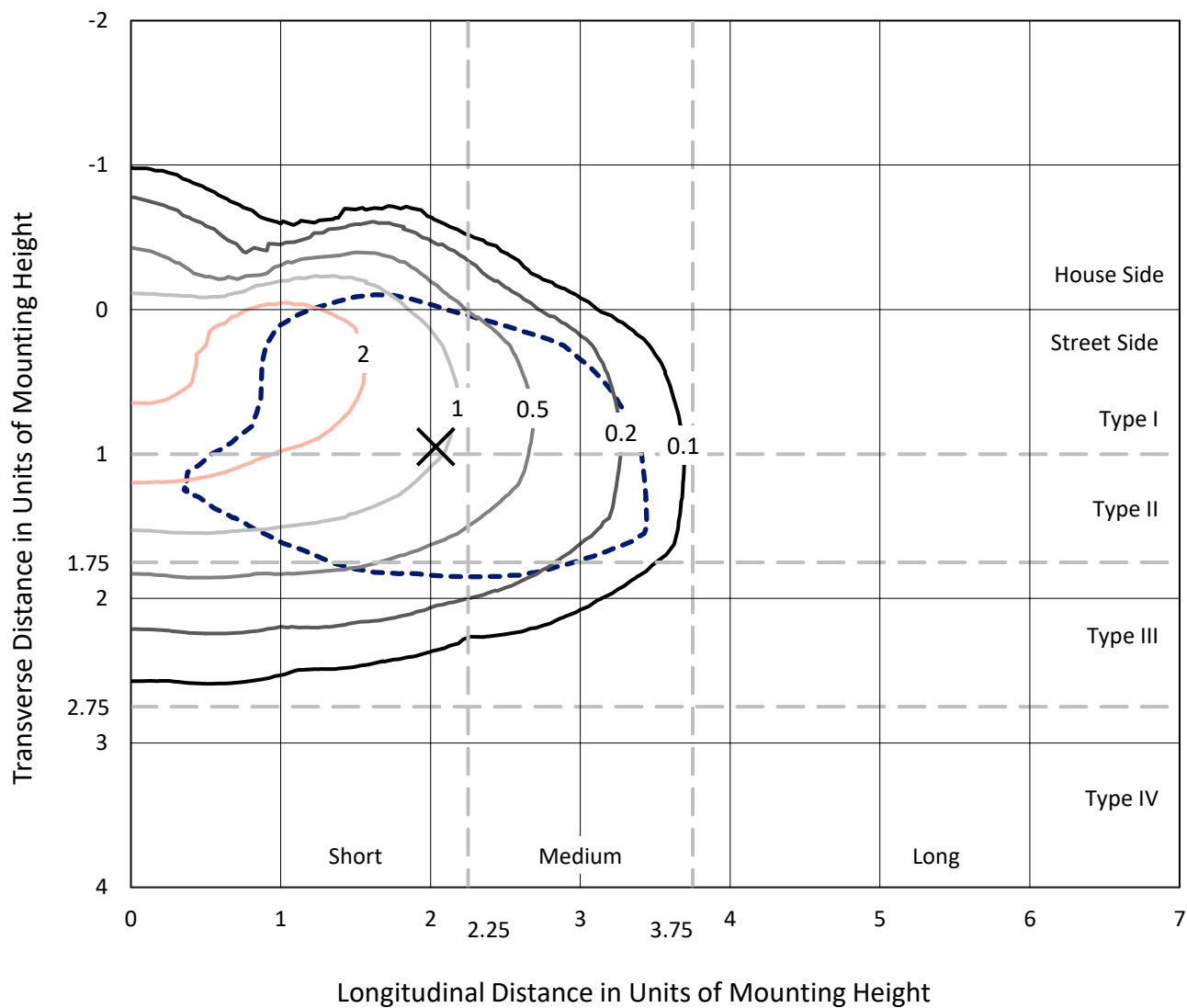
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

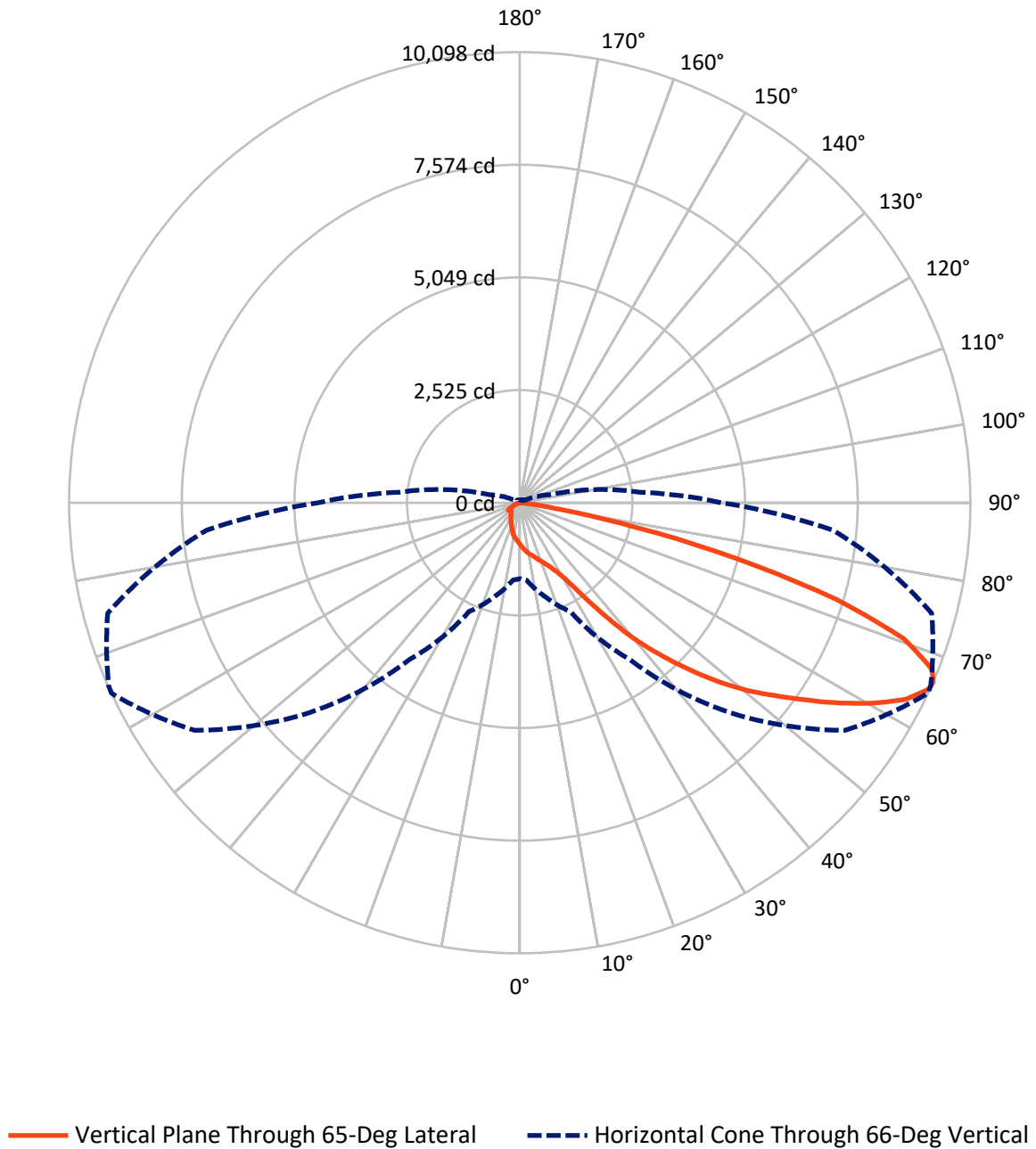
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1349.2	0.0	1349.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10082.8	0.0	10082.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	11432.0	0.0	11432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	0.8
10°-20°	261.4	2.3
20°-30°	478.4	4.2
30°-40°	972.1	8.5
40°-50°	2052.9	18.0
50°-60°	3155.9	27.6
60°-70°	3176.7	27.8
70°-80°	1187.0	10.4
80°-90°	59.3	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°	11432.0	100.0
0°-180°	11432.0	100.0

Coefficient of Utilization



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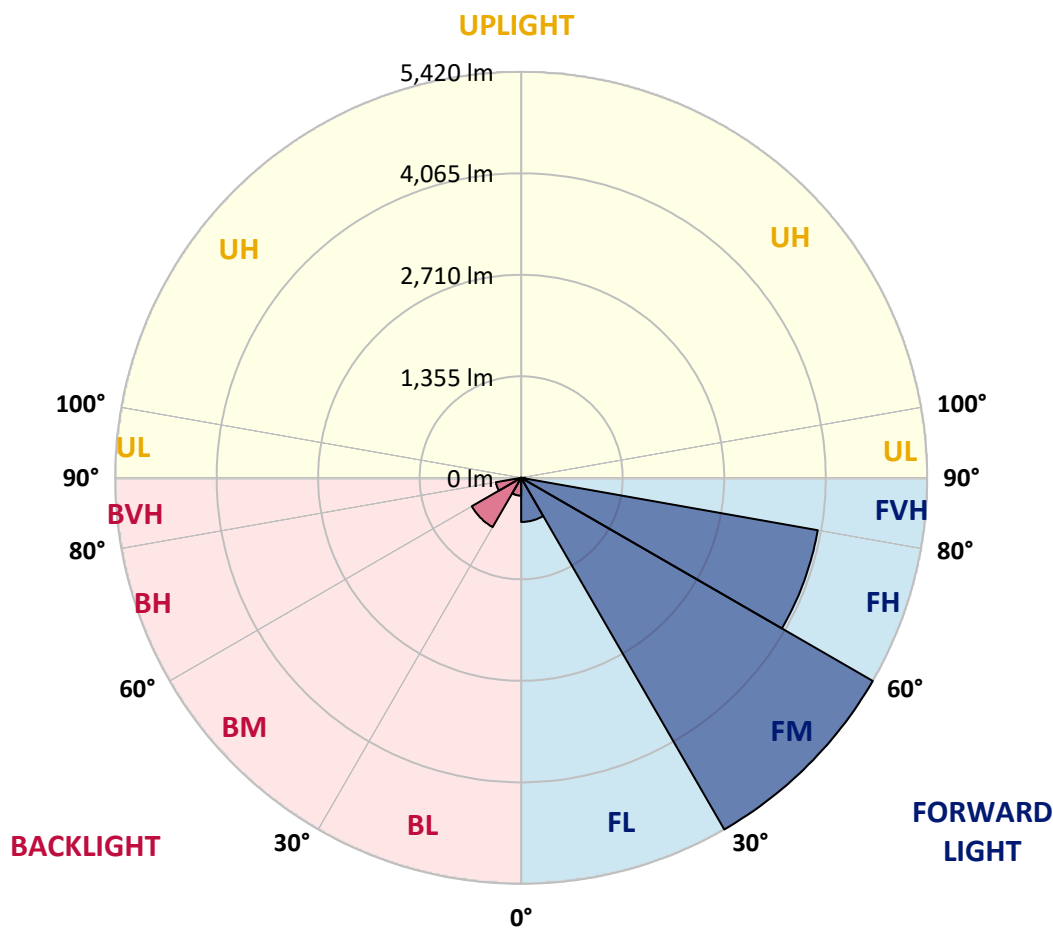
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.3	5.2			
FM	(30°-60°)	5420.3	47.4			
FH	(60°-80°)	4020.9	35.2			G2/5000
FVH	(80°-90°)	52.3	0.5			G1/100
BL	(0°-30°)	238.8	2.1	B1/500		
BM	(30°-60°)	760.7	6.7	B1/1000		
BH	(60°-80°)	342.7	3.0	B1/500		G1/500
BVH	(80°-90°)	7.0	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	1062.1	1064.1	1060.0	1051.7	1043.4	1033.0	1016.4	989.5	985.3	966.7	945.9
5°	1134.7	1138.8	1132.6	1130.5	1126.4	1111.9	1089.0	1049.6	1045.5	1008.1	960.4
7.5°	1159.6	1165.8	1161.6	1161.6	1161.6	1155.4	1145.0	1109.8	1103.6	1055.8	983.2
10°	1178.2	1182.4	1180.3	1188.6	1194.8	1190.7	1184.5	1163.7	1157.5	1109.8	1014.4
12.5°	1207.3	1209.4	1211.4	1215.6	1225.9	1230.1	1228.0	1209.4	1205.2	1172.0	1053.8
15°	1234.2	1234.2	1236.3	1255.0	1269.5	1277.8	1279.9	1265.4	1261.2	1234.2	1103.6
17.5°	1259.1	1261.2	1267.4	1288.2	1313.1	1329.7	1340.0	1333.8	1327.6	1306.8	1161.6
20°	1296.5	1300.6	1306.8	1335.9	1360.8	1387.7	1408.5	1406.4	1404.3	1389.8	1230.1
22.5°	1360.8	1364.9	1375.3	1402.3	1427.2	1460.3	1495.6	1493.5	1487.3	1476.9	1311.0
25°	1458.3	1458.3	1464.5	1487.3	1518.4	1557.8	1591.0	1597.3	1591.0	1584.8	1412.6
27.5°	1580.7	1582.7	1582.7	1607.6	1636.7	1686.5	1727.9	1734.2	1734.2	1727.9	1549.5
30°	1750.8	1744.5	1740.4	1761.1	1792.2	1864.8	1937.4	1949.9	1943.7	1954.0	1742.5
32.5°	2043.2	2032.9	1997.6	2001.8	2020.4	2120.0	2242.4	2285.9	2283.9	2302.5	2053.6
35°	2447.7	2427.0	2375.1	2331.6	2329.5	2437.4	2624.1	2787.9	2785.9	2850.2	2526.6
37.5°	2904.1	2931.1	2833.6	2758.9	2736.1	2821.1	3061.8	3416.5	3435.1	3547.2	3146.8
40°	3514.0	3530.6	3406.1	3300.3	3192.4	3223.6	3540.9	4092.7	4125.9	4250.4	3767.0
42.5°	4045.0	4061.6	3989.0	3860.4	3723.5	3665.4	4024.3	4706.7	4733.7	4905.9	4405.9
45°	4405.9	4418.4	4443.3	4455.7	4300.1	4179.8	4615.4	5337.3	5370.5	5569.6	5030.3
47.5°	4688.0	4698.4	4748.2	4872.7	4841.5	4746.1	5217.0	5992.8	6001.1	6223.1	5638.1
50°	4818.7	4843.6	4966.0	5156.9	5293.8	5320.7	5870.4	6613.1	6635.9	6847.5	6212.7
52.5°	4673.5	4681.8	4990.9	5349.8	5625.7	5899.5	6525.9	7187.6	7254.0	7411.7	6729.2
55°	4184.0	4244.1	4712.9	5343.5	5887.0	6449.2	7227.1	7807.9	7868.0	7967.6	7183.5
57.5°	3615.6	3682.0	4252.4	5076.0	5999.0	6957.4	7876.3	8467.5	8509.0	8536.0	7600.4
60°	3124.0	3186.2	3773.3	4563.6	5887.0	7316.3	8480.0	9123.0	9158.3	9085.7	7810.0
62.5°	2520.3	2582.6	3173.8	3885.3	5447.3	7388.9	8928.0	9705.9	9720.4	9523.4	7681.3
65°	1900.1	1941.6	2435.3	3045.2	4677.7	7003.0	9029.7	10068.9	10054.4	9649.9	7295.5
66°	1703.0	1738.3	2173.9	2692.5	4277.3	6650.4	8892.8	10098.0	10083.5	9556.6	7042.4
67.5°	1468.6	1479.0	1837.9	2203.0	3578.3	5901.5	8475.8	9965.2	9977.7	9299.3	6579.9
70°	1147.1	1145.0	1352.5	1532.9	2443.6	4198.5	7069.4	9129.2	9189.4	8328.5	5611.1
72.5°	734.3	709.4	829.7	937.6	1423.0	2437.4	5154.8	7440.7	7542.4	6542.5	4179.8
75°	437.7	412.8	441.8	468.8	682.5	1172.0	3030.6	5063.5	5161.0	4194.4	2487.2
77.5°	327.7	317.4	319.5	296.6	302.9	439.8	1383.6	2675.9	2746.4	1717.6	943.8
80°	251.0	224.0	209.5	219.9	199.1	174.2	514.4	921.0	964.6	406.6	197.1
82.5°	168.0	145.2	134.8	147.3	126.5	97.5	124.5	178.4	174.2	109.9	76.8
85°	87.1	74.7	74.7	74.7	64.3	47.7	53.9	72.6	72.6	58.1	45.6
87.5°	24.9	22.8	27.0	24.9	18.7	18.7	20.7	24.9	24.9	22.8	20.7
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°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	929.3	921.0	898.2	881.6	865.0	850.5	833.9	829.7	821.4	823.5	819.4
5°	935.5	912.7	873.3	836.0	806.9	782.0	750.9	738.5	721.9	715.7	711.5
7.5°	943.8	910.6	852.6	800.7	750.9	701.1	651.3	622.3	603.6	595.3	589.1
10°	962.5	918.9	842.2	761.3	676.2	605.7	555.9	535.2	522.7	520.7	518.6
12.5°	987.4	931.4	831.8	711.5	599.5	533.1	502.0	495.8	493.7	493.7	491.6
15°	1024.7	952.1	815.2	653.4	539.3	493.7	479.2	468.8	464.7	464.7	464.7
17.5°	1062.1	977.0	790.3	593.3	497.8	468.8	454.3	448.1	443.9	446.0	443.9
20°	1109.8	1006.1	757.1	541.4	470.9	448.1	433.5	427.3	425.2	425.2	425.2
22.5°	1163.7	1039.3	715.7	502.0	448.1	427.3	412.8	406.6	402.4	404.5	404.5
25°	1236.3	1080.7	672.1	462.6	425.2	406.6	390.0	381.7	381.7	383.8	385.8
27.5°	1329.7	1130.5	628.5	437.7	404.5	385.8	367.2	358.9	360.9	365.1	365.1
30°	1466.6	1199.0	585.0	410.7	381.7	360.9	344.3	336.0	340.2	348.5	348.5
32.5°	1661.6	1311.0	547.6	379.6	348.5	325.7	309.1	302.9	313.2	329.8	329.8
35°	2010.1	1516.4	524.8	348.5	313.2	286.3	265.5	259.3	273.8	294.6	294.6
37.5°	2476.8	1846.2	533.1	321.5	284.2	253.1	230.3	222.0	232.3	251.0	257.2
40°	2997.4	2244.5	605.7	298.7	257.2	226.1	203.3	195.0	201.2	209.5	211.6
42.5°	3518.1	2667.6	742.6	282.1	236.5	203.3	182.5	176.3	180.5	182.5	184.6
45°	4036.7	3086.6	914.8	271.7	217.8	184.6	163.9	163.9	165.9	165.9	165.9
47.5°	4528.3	3495.3	1095.3	269.7	201.2	165.9	149.4	151.4	151.4	153.5	153.5
50°	4993.0	3860.4	1277.8	275.9	186.7	149.4	136.9	136.9	136.9	139.0	136.9
52.5°	5380.9	4179.8	1468.6	286.3	172.2	136.9	124.5	124.5	124.5	126.5	124.5
55°	5748.0	4470.2	1663.6	300.8	159.7	126.5	114.1	109.9	109.9	112.0	109.9
57.5°	6046.8	4663.2	1848.3	302.9	149.4	116.2	105.8	99.6	99.6	99.6	99.6
60°	6059.2	4551.1	1902.2	265.5	136.9	105.8	95.4	87.1	89.2	89.2	89.2
62.5°	5663.0	3962.0	1528.8	199.1	122.4	95.4	87.1	78.8	78.8	78.8	78.8
65°	4885.1	3082.5	896.1	157.7	105.8	85.0	76.8	70.5	70.5	70.5	68.5
66°	4520.0	2702.9	686.6	143.1	99.6	83.0	74.7	68.5	66.4	64.3	64.3
67.5°	3924.7	2136.6	429.4	126.5	91.3	76.8	68.5	62.2	60.2	58.1	58.1
70°	2956.0	1356.6	209.5	97.5	78.8	66.4	60.2	53.9	51.9	49.8	47.7
72.5°	2074.4	794.5	109.9	74.7	64.3	58.1	51.9	45.6	43.6	41.5	41.5
75°	1172.0	383.8	72.6	53.9	51.9	47.7	43.6	37.3	35.3	35.3	35.3
77.5°	443.9	132.8	49.8	39.4	41.5	37.3	31.1	31.1	29.0	31.1	29.0
80°	116.2	58.1	31.1	29.0	31.1	27.0	22.8	24.9	24.9	24.9	24.9
82.5°	62.2	33.2	18.7	20.7	18.7	18.7	14.5	16.6	18.7	16.6	18.7
85°	43.6	16.6	10.4	10.4	8.3	8.3	6.2	8.3	10.4	8.3	8.3
87.5°	22.8	6.2	6.2	6.2	6.2	4.1	2.1	0.0	2.1	2.1	2.1
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)