

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: P1210872

Luminaire Tested: **ARCH4-100-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11775 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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

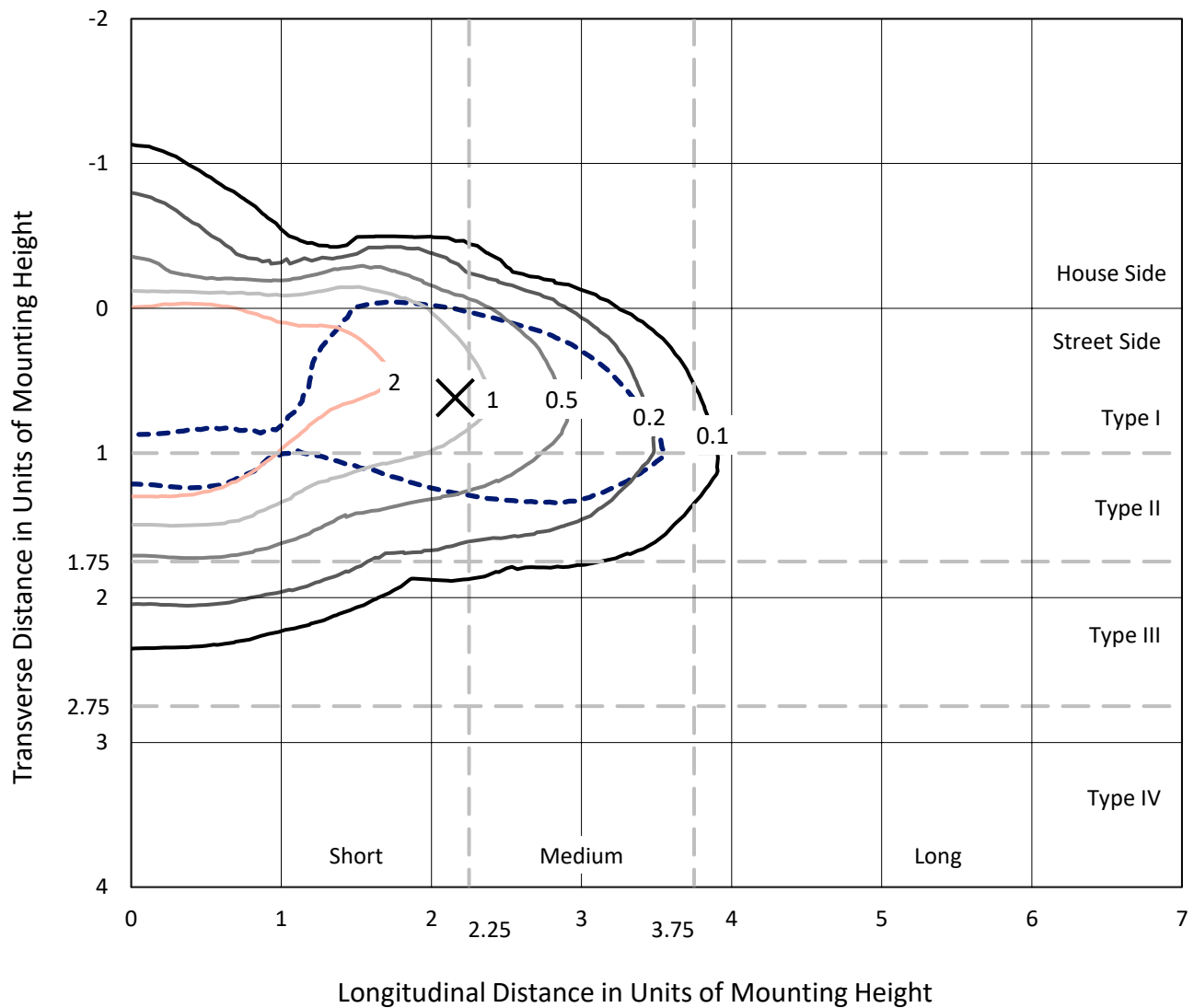


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Iso-Footcandle Lines of Horizontal Illumination

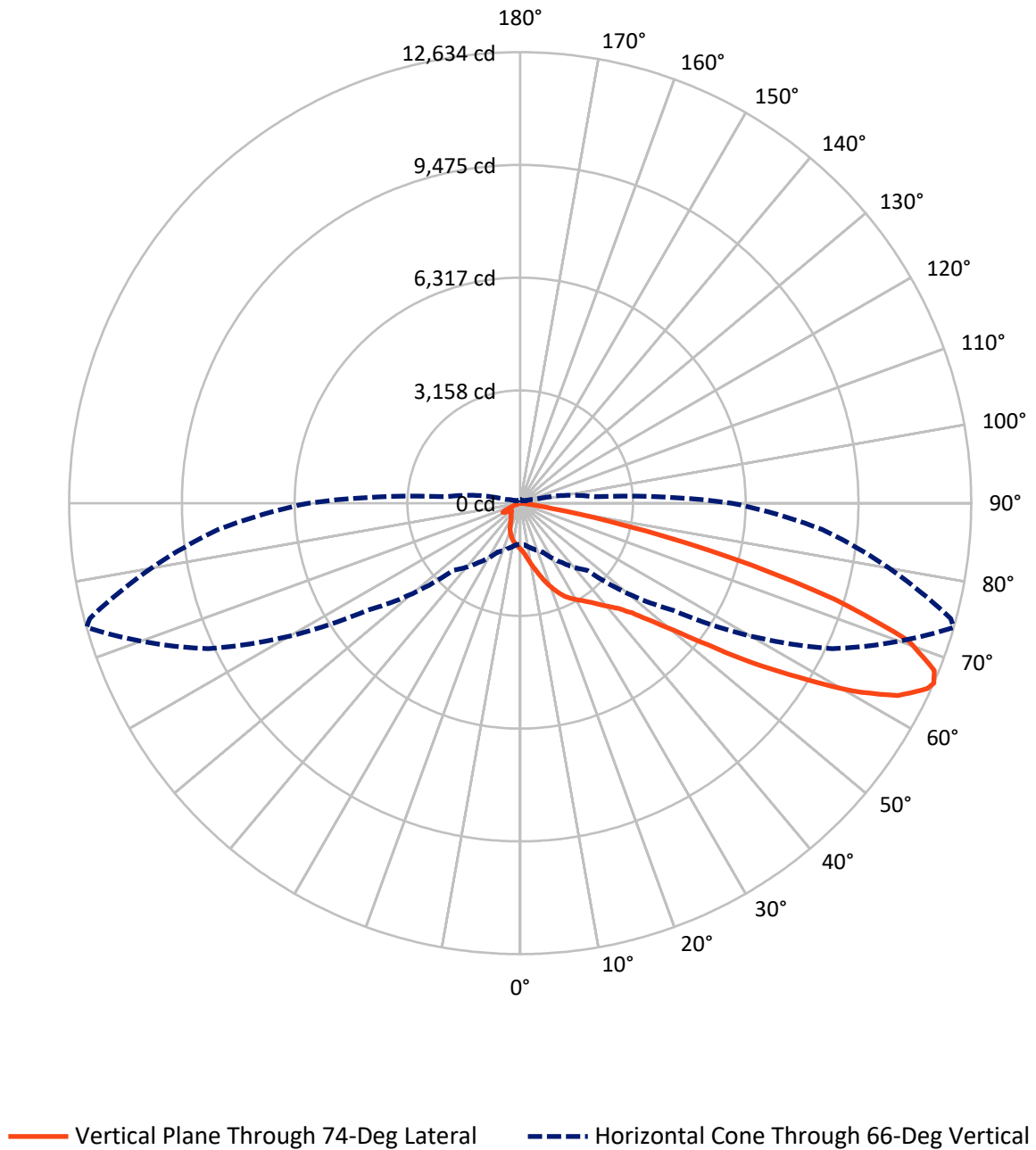
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1154.3	0.0	1154.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10620.7	0.0	10620.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	11775.0	0.0	11775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.1
10°-20°	402.2	3.4
20°-30°	767.6	6.5
30°-40°	1345.4	11.4
40°-50°	2306.9	19.6
50°-60°	3000.4	25.5
60°-70°	2716.1	23.1
70°-80°	1048.0	8.9
80°-90°	63.1	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°	11775.0	100.0
0°-180°	11775.0	100.0

Coefficient of Utilization



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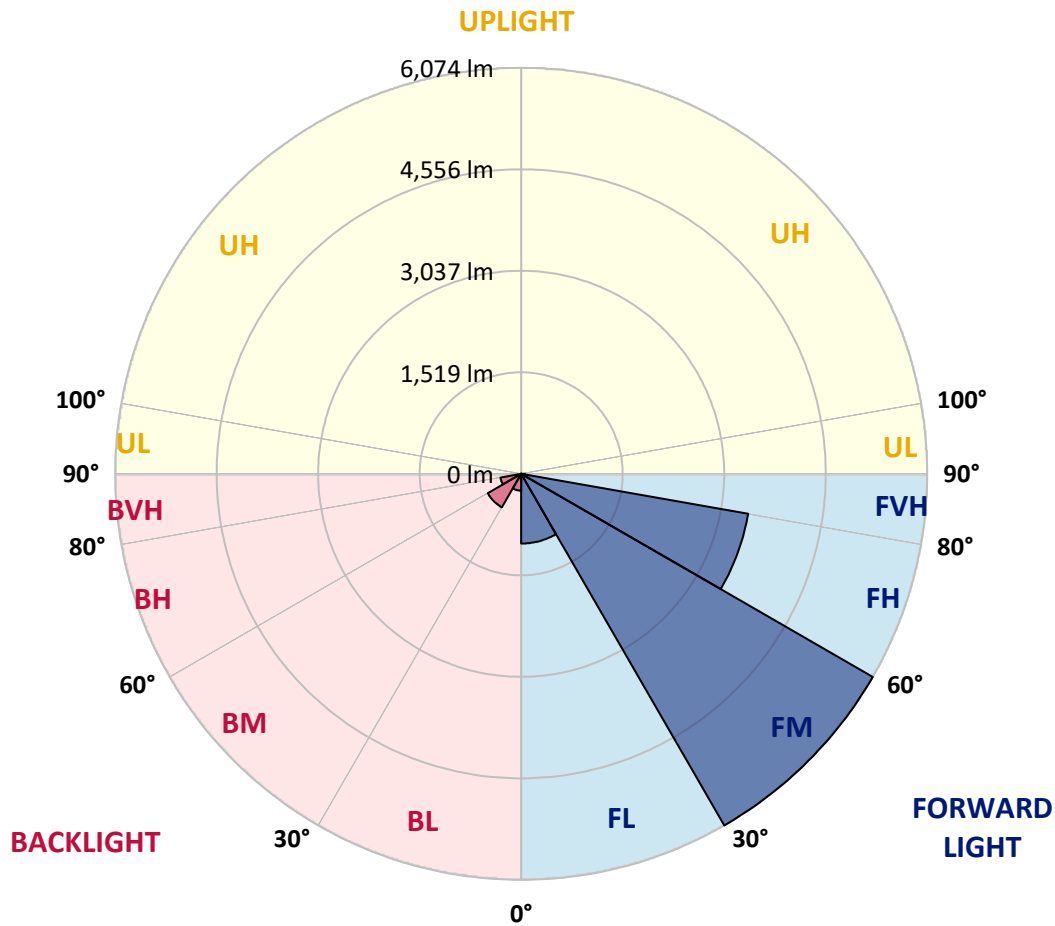
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.4	8.9			
FM	(30°-60°)	6074.1	51.6			
FH	(60°-80°)	3448.5	29.3			G2/5000
FVH	(80°-90°)	54.6	0.5			G1/100
BL	(0°-30°)	251.8	2.1	B1/500		
BM	(30°-60°)	578.5	4.9	B1/1000		
BH	(60°-80°)	315.6	2.7	B1/500		G1/500
BVH	(80°-90°)	8.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1543.3	1530.6	1507.3	1505.2	1486.2	1462.9	1422.8	1380.5	1350.9	1346.7	1310.7
5°	1847.7	1841.3	1818.1	1803.3	1767.3	1712.4	1619.4	1526.3	1448.1	1439.7	1359.3
7.5°	1928.0	1932.2	1936.5	1951.3	1938.6	1913.2	1843.5	1712.4	1589.8	1570.7	1431.2
10°	1940.7	1936.5	1936.5	1955.5	1991.4	2027.4	2018.9	1906.9	1748.3	1725.1	1530.6
12.5°	2078.1	2084.5	2069.7	2061.2	2054.9	2073.9	2137.3	2088.7	1915.3	1896.3	1651.1
15°	2255.7	2253.6	2232.4	2232.4	2213.4	2181.7	2221.9	2257.8	2116.2	2092.9	1788.5
17.5°	2384.6	2393.1	2391.0	2403.7	2397.3	2355.1	2333.9	2407.9	2323.3	2293.7	1944.9
20°	2488.2	2511.5	2519.9	2560.1	2579.1	2549.5	2494.6	2541.1	2522.1	2494.6	2103.5
22.5°	2598.2	2617.2	2632.0	2701.8	2754.6	2748.3	2678.5	2667.9	2714.4	2689.1	2259.9
25°	2708.1	2716.6	2761.0	2845.5	2930.1	2951.2	2879.3	2796.9	2887.8	2864.5	2399.4
27.5°	2828.6	2832.8	2885.7	2989.3	3107.7	3152.1	3095.0	2942.8	3021.0	3021.0	2526.3
30°	3048.5	3090.7	3111.9	3204.9	3308.5	3369.8	3302.1	3097.1	3139.4	3158.4	2659.5
32.5°	3522.0	3528.4	3522.0	3562.2	3583.3	3619.3	3541.0	3270.4	3259.9	3281.0	2790.5
35°	4245.0	4219.6	4152.0	4092.8	3970.2	3902.5	3801.1	3492.4	3407.9	3437.4	2919.5
37.5°	5122.3	5086.4	4932.1	4750.3	4488.1	4217.5	4090.7	3763.0	3596.0	3634.1	3059.0
40°	5959.5	5936.3	5752.3	5528.2	5080.1	4617.1	4348.6	3991.3	3805.3	3820.1	3200.7
42.5°	6648.7	6644.5	6490.1	6255.5	5680.5	5048.4	4653.0	4215.4	4025.2	4048.4	3348.7
45°	7170.9	7130.7	7016.5	6847.4	6261.8	5496.5	5020.9	4555.8	4378.2	4405.7	3570.6
47.5°	7170.9	7177.2	7251.2	7234.3	6667.7	5917.2	5422.5	4984.9	4900.4	4925.7	3936.4
50°	6587.4	6646.6	6976.4	7253.3	6879.1	6244.9	5855.9	5521.9	5608.6	5646.6	4574.8
52.5°	5433.1	5532.5	6105.4	6737.5	6722.7	6409.8	6304.1	6204.7	6593.7	6661.4	5517.7
55°	4128.7	4194.3	4940.5	5771.4	6042.0	6274.5	6695.2	7071.5	7898.1	7883.3	6475.3
57.5°	3084.4	3145.7	3788.4	4710.1	5067.4	5688.9	6896.0	8063.0	9191.9	9249.0	7373.8
60°	2268.4	2314.9	2862.4	3619.3	4135.1	4792.6	6815.7	9039.7	10682.3	10616.8	8166.6
62.5°	1678.6	1703.9	2099.3	2591.8	3276.8	3904.7	6310.4	9707.7	11872.5	11739.3	8608.4
65°	1298.0	1306.5	1511.5	1773.7	2382.5	3035.8	5557.8	9809.2	12530.0	12388.3	8600.0
66°	1156.4	1162.7	1312.8	1515.8	2027.4	2657.4	5228.0	9646.4	12633.6	12483.5	8494.3
67.5°	970.3	966.1	1054.9	1188.1	1522.1	2050.6	4642.5	9170.8	12511.0	12434.8	8156.0
70°	718.8	720.9	765.3	797.0	890.0	1135.2	3352.9	7955.2	11530.0	11525.8	7227.9
72.5°	532.7	539.1	572.9	579.2	556.0	615.2	1932.2	6327.4	9223.6	9225.7	5403.5
75°	399.6	410.1	420.7	424.9	403.8	389.0	873.1	4257.7	6067.3	6022.9	3059.0
77.5°	304.4	308.7	317.1	310.8	306.5	268.5	363.6	2076.0	2995.6	2729.2	991.5
80°	222.0	222.0	230.4	222.0	219.9	192.4	198.7	665.9	879.4	731.5	213.5
82.5°	139.5	137.4	143.8	141.6	137.4	122.6	116.3	186.0	202.9	181.8	103.6
85°	78.2	76.1	74.0	71.9	65.5	55.0	63.4	69.8	93.0	95.1	74.0
87.5°	27.5	27.5	25.4	23.3	19.0	19.0	23.3	23.3	33.8	33.8	38.1
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°	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3	1285.3
2.5°	1293.8	1270.5	1236.7	1192.3	1160.6	1128.9	1095.1	1076.1	1048.6	1042.2	1050.7
5°	1317.1	1274.8	1190.2	1097.2	1016.9	945.0	877.3	837.2	797.0	782.2	788.5
7.5°	1365.7	1293.8	1150.0	999.9	866.8	758.9	678.6	632.1	596.2	581.4	585.6
10°	1437.6	1327.6	1112.0	890.0	718.8	604.6	537.0	507.4	486.2	477.8	479.9
12.5°	1524.2	1376.2	1063.4	780.1	591.9	492.6	460.9	454.5	450.3	446.1	448.2
15°	1621.5	1418.5	1006.3	672.3	492.6	437.6	427.0	424.9	422.8	422.8	422.8
17.5°	1723.0	1456.6	942.9	570.8	429.2	403.8	397.4	397.4	397.4	399.6	399.6
20°	1818.1	1486.2	868.9	479.9	393.2	372.1	367.8	367.8	370.0	372.1	372.1
22.5°	1911.1	1498.9	782.2	416.5	363.6	344.6	338.2	338.2	338.2	340.4	340.4
25°	1991.4	1498.9	695.5	376.3	338.2	319.2	310.8	308.7	310.8	310.8	310.8
27.5°	2059.1	1492.5	611.0	348.8	312.9	293.9	285.4	283.3	287.5	289.6	289.6
30°	2131.0	1484.1	543.3	323.4	291.7	272.7	264.3	264.3	270.6	279.1	279.1
32.5°	2200.7	1490.4	490.5	302.3	270.6	255.8	247.3	249.5	262.1	274.8	274.8
35°	2274.7	1503.1	458.7	287.5	255.8	241.0	234.7	241.0	253.7	266.4	266.4
37.5°	2348.7	1517.9	439.7	274.8	243.1	228.3	224.1	232.5	247.3	260.0	262.1
40°	2426.9	1530.6	418.6	262.1	234.7	217.7	215.6	224.1	243.1	255.8	257.9
42.5°	2524.2	1555.9	393.2	251.6	226.2	205.1	207.2	213.5	232.5	251.6	253.7
45°	2714.4	1636.3	367.8	241.0	215.6	198.7	194.5	198.7	219.9	241.0	245.2
47.5°	3071.7	1818.1	340.4	230.4	205.1	194.5	177.6	181.8	200.8	224.1	226.2
50°	3756.7	2205.0	325.6	219.9	196.6	179.7	160.7	160.7	175.5	196.6	196.6
52.5°	4824.3	2898.4	334.0	211.4	186.0	164.9	145.9	143.8	152.2	167.0	167.0
55°	5976.4	3659.4	365.7	202.9	173.4	156.4	135.3	124.7	131.1	139.5	139.5
57.5°	6889.7	4042.1	452.4	198.7	158.6	150.1	122.6	107.8	114.2	122.6	122.6
60°	7291.4	3818.0	549.7	202.9	148.0	139.5	109.9	95.1	105.7	114.2	116.3
62.5°	6965.8	3143.6	589.8	192.4	133.2	124.7	107.8	88.8	101.5	107.8	109.9
65°	6261.8	2388.9	460.9	167.0	122.6	107.8	97.2	84.6	95.1	101.5	101.5
66°	5927.8	2082.3	393.2	154.3	118.4	101.5	93.0	84.6	93.0	97.2	99.4
67.5°	5409.9	1642.6	291.7	135.3	109.9	93.0	86.7	80.3	88.8	93.0	93.0
70°	4230.2	978.8	175.5	105.7	95.1	82.4	78.2	74.0	80.3	82.4	82.4
72.5°	2648.9	465.1	112.0	78.2	80.3	78.2	65.5	69.8	71.9	74.0	74.0
75°	1283.2	183.9	76.1	57.1	65.5	74.0	52.9	61.3	63.4	67.6	65.5
77.5°	357.3	88.8	48.6	42.3	57.1	57.1	40.2	48.6	57.1	71.9	65.5
80°	103.6	57.1	31.7	31.7	40.2	40.2	27.5	33.8	38.1	42.3	44.4
82.5°	71.9	38.1	21.1	23.3	23.3	25.4	16.9	16.9	21.1	21.1	23.3
85°	57.1	16.9	12.7	14.8	10.6	12.7	8.5	8.5	10.6	8.5	8.5
87.5°	23.3	8.5	8.5	8.5	6.3	6.3	4.2	2.1	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)