

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: P1210996

Luminaire Tested: **ARCH4-140-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210996
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: ARCH4-140-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA 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: 14193 lumens
Efficiency: N/A
Efficacy: 100.4 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): 141.3
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

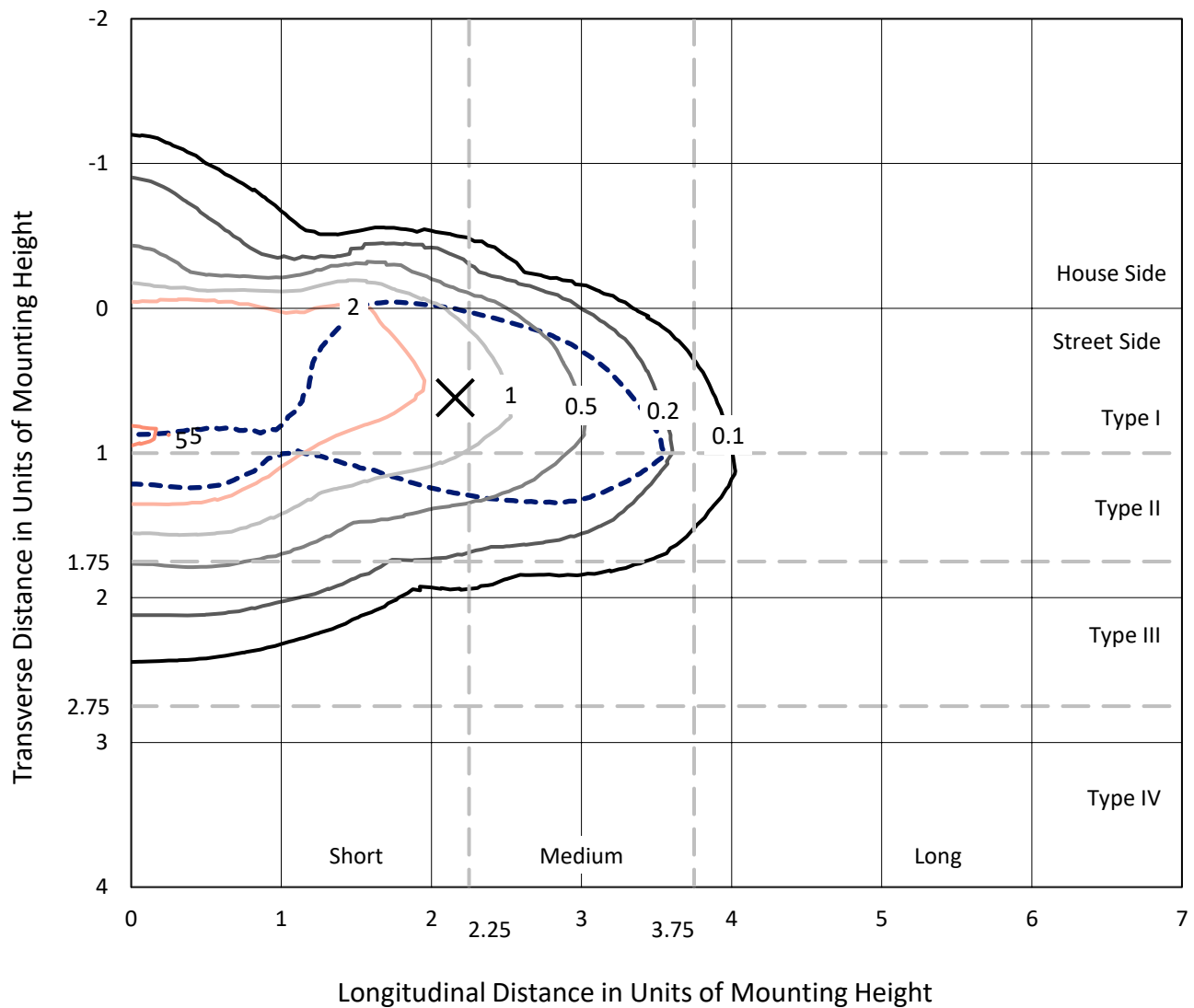


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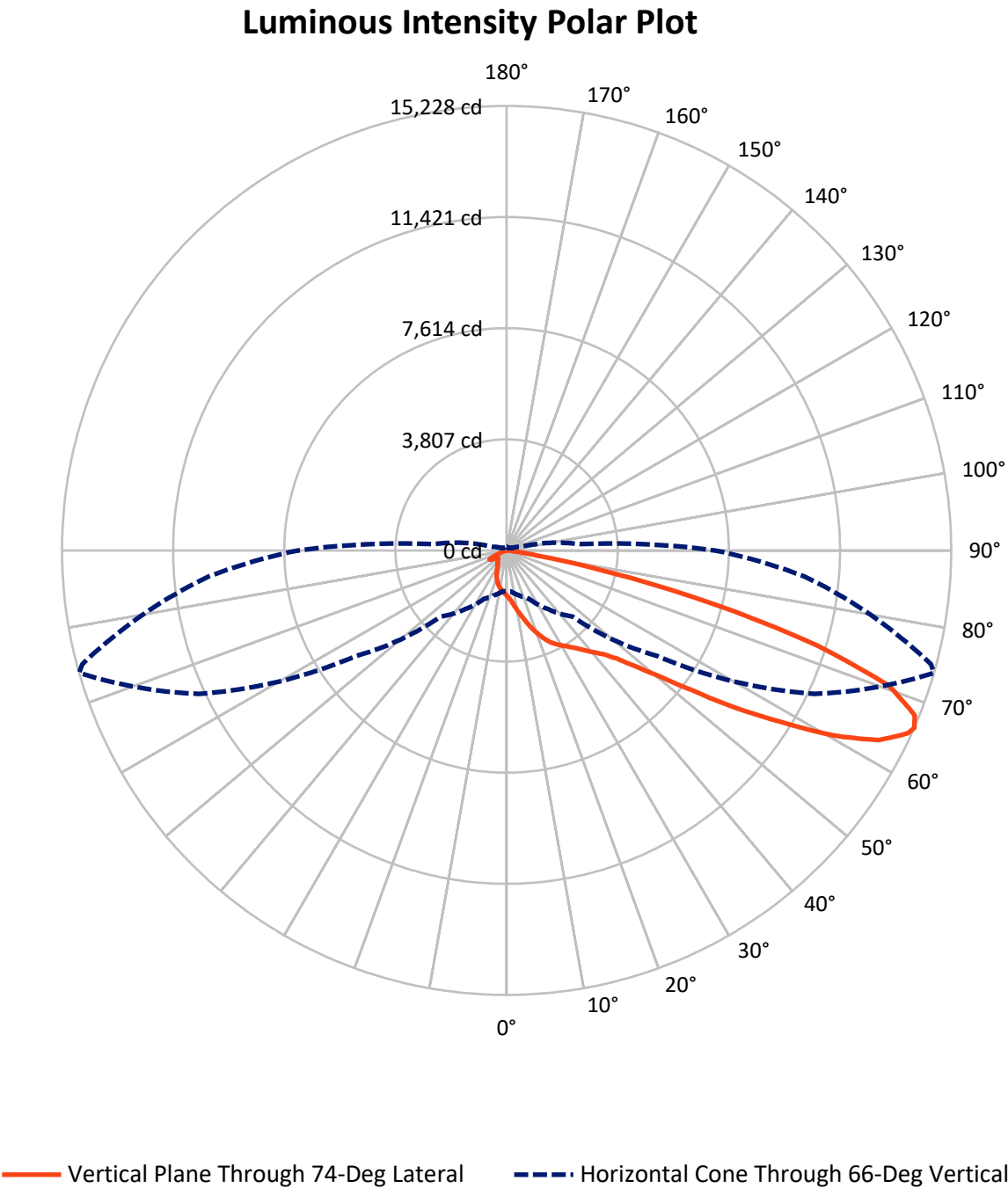
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.4	0.0	1391.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12801.6	0.0	12801.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	14193.0	0.0	14193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.1
10°-20°	484.8	3.4
20°-30°	925.2	6.5
30°-40°	1621.6	11.4
40°-50°	2780.7	19.6
50°-60°	3616.5	25.5
60°-70°	3273.8	23.1
70°-80°	1263.2	8.9
80°-90°	76.0	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°	14193.0	100.0
0°-180°	14193.0	100.0

Coefficient of Utilization



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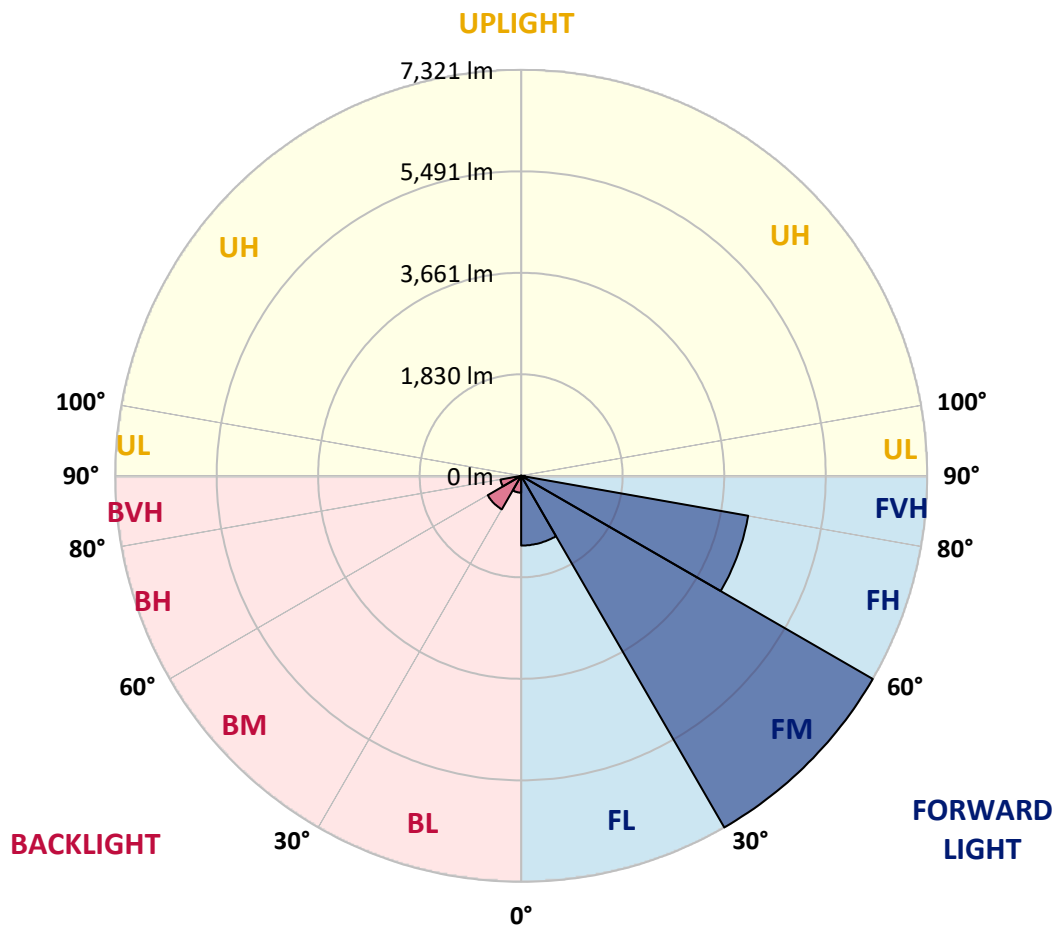
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.7	8.9			
FM	(30°-60°)	7321.5	51.6			
FH	(60°-80°)	4156.6	29.3			G2/5000
FVH	(80°-90°)	65.8	0.5			G1/100
BL	(0°-30°)	303.5	2.1	B1/500		
BM	(30°-60°)	697.3	4.9	B1/1000		
BH	(60°-80°)	380.4	2.7	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
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°	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3
2.5°	1860.2	1844.9	1816.8	1814.3	1791.4	1763.3	1714.9	1664.0	1628.3	1623.2	1579.9
5°	2227.1	2219.5	2191.4	2173.6	2130.3	2064.0	1951.9	1839.8	1745.5	1735.3	1638.5
7.5°	2323.9	2329.0	2334.1	2352.0	2336.7	2306.1	2222.0	2064.0	1916.2	1893.3	1725.1
10°	2339.2	2334.1	2334.1	2357.1	2400.4	2443.7	2433.5	2298.5	2107.3	2079.3	1844.9
12.5°	2504.9	2512.5	2494.7	2484.5	2476.8	2499.8	2576.2	2517.6	2308.6	2285.7	1990.1
15°	2718.9	2716.4	2690.9	2690.9	2667.9	2629.7	2678.1	2721.4	2550.7	2522.7	2155.8
17.5°	2874.3	2884.5	2882.0	2897.3	2889.6	2838.7	2813.2	2902.4	2800.4	2764.8	2344.3
20°	2999.2	3027.2	3037.4	3085.8	3108.8	3073.1	3006.8	3062.9	3040.0	3006.8	2535.4
22.5°	3131.7	3154.6	3172.5	3256.6	3320.3	3312.6	3228.5	3215.8	3271.9	3241.3	2724.0
25°	3264.2	3274.4	3327.9	3429.8	3531.8	3557.2	3470.6	3371.2	3480.8	3452.8	2892.2
27.5°	3409.5	3414.6	3478.3	3603.1	3745.8	3799.3	3730.5	3547.1	3641.3	3641.3	3045.1
30°	3674.5	3725.4	3750.9	3863.0	3987.9	4061.8	3980.2	3733.1	3784.0	3807.0	3205.6
32.5°	4245.3	4252.9	4245.3	4293.7	4319.2	4362.5	4268.2	3942.0	3929.3	3954.8	3363.6
35°	5116.7	5086.2	5004.6	4933.3	4785.5	4703.9	4581.6	4209.6	4107.7	4143.3	3519.0
37.5°	6174.2	6130.9	5944.9	5725.7	5409.8	5083.6	4930.7	4535.7	4334.4	4380.3	3687.2
40°	7183.3	7155.3	6933.6	6663.5	6123.3	5565.2	5241.6	4810.9	4586.7	4604.5	3857.9
42.5°	8014.0	8008.9	7822.9	7540.0	6846.9	6085.0	5608.5	5081.1	4851.7	4879.7	4036.3
45°	8643.4	8595.0	8457.4	8253.5	7547.7	6625.2	6051.9	5491.3	5277.3	5310.4	4303.9
47.5°	8643.4	8651.0	8740.2	8719.8	8036.9	7132.3	6536.1	6008.6	5906.7	5937.2	4744.7
50°	7940.1	8011.5	8409.0	8742.8	8291.8	7527.3	7058.4	6655.8	6760.3	6806.2	5514.2
52.5°	6548.8	6668.6	7359.1	8121.0	8103.2	7726.1	7598.6	7478.9	7947.7	8029.3	6650.7
55°	4976.6	5055.6	5955.1	6956.5	7282.7	7563.0	8070.1	8523.6	9520.0	9502.1	7805.1
57.5°	3717.8	3791.7	4566.3	5677.3	6108.0	6857.1	8312.1	9718.7	11079.5	11148.3	8888.0
60°	2734.2	2790.2	3450.2	4362.5	4984.2	5776.7	8215.3	10896.0	12875.9	12796.9	9843.6
62.5°	2023.2	2053.8	2530.3	3124.1	3949.7	4706.5	7606.3	11701.2	14310.5	14150.0	10376.2
65°	1564.6	1574.8	1821.9	2137.9	2871.8	3659.2	6699.1	11823.5	15103.0	14932.3	10366.0
66°	1393.9	1401.5	1582.4	1827.0	2443.7	3203.1	6301.6	11627.3	15227.9	15047.0	10238.6
67.5°	1169.6	1164.5	1271.5	1432.1	1834.7	2471.7	5595.8	11054.0	15080.1	14988.3	9830.8
70°	866.4	868.9	922.4	960.7	1072.8	1368.4	4041.4	9588.8	13897.7	13892.6	8712.2
72.5°	642.1	649.8	690.6	698.2	670.2	741.5	2329.0	7626.7	11117.7	11120.2	6513.1
75°	481.6	494.3	507.1	512.2	486.7	468.9	1052.4	5132.0	7313.3	7259.7	3687.2
77.5°	366.9	372.0	382.2	374.6	369.5	323.6	438.3	2502.3	3610.8	3289.7	1195.1
80°	267.6	267.6	277.8	267.6	265.0	231.9	239.5	802.7	1060.0	881.7	257.4
82.5°	168.2	165.6	173.3	170.7	165.6	147.8	140.1	224.2	244.6	219.1	124.9
85°	94.3	91.7	89.2	86.6	79.0	66.3	76.4	84.1	112.1	114.7	89.2
87.5°	33.1	33.1	30.6	28.0	22.9	22.9	28.0	28.0	40.8	40.8	45.9
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°	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3	1549.3
2.5°	1559.5	1531.5	1490.7	1437.2	1398.9	1360.7	1320.0	1297.0	1263.9	1256.2	1266.4
5°	1587.5	1536.5	1434.6	1322.5	1225.7	1139.0	1057.5	1009.1	960.7	942.8	950.5
7.5°	1646.1	1559.5	1386.2	1205.3	1044.8	914.8	818.0	761.9	718.6	700.7	705.8
10°	1732.8	1600.3	1340.3	1072.8	866.4	728.8	647.2	611.6	586.1	575.9	578.4
12.5°	1837.2	1658.9	1281.7	940.3	713.5	593.7	555.5	547.9	542.8	537.7	540.2
15°	1954.4	1709.8	1212.9	810.3	593.7	527.5	514.7	512.2	509.6	509.6	509.6
17.5°	2076.8	1755.7	1136.5	688.0	517.3	486.7	479.1	479.1	479.1	481.6	481.6
20°	2191.4	1791.4	1047.3	578.4	474.0	448.5	443.4	443.4	445.9	448.5	448.5
22.5°	2303.5	1806.7	942.8	502.0	438.3	415.4	407.7	407.7	407.7	410.3	410.3
25°	2400.4	1806.7	838.3	453.6	407.7	384.8	374.6	372.0	374.6	374.6	374.6
27.5°	2481.9	1799.0	736.4	420.4	377.1	354.2	344.0	341.5	346.6	349.1	349.1
30°	2568.6	1788.8	654.9	389.9	351.6	328.7	318.5	318.5	326.2	336.4	336.4
32.5°	2652.6	1796.5	591.2	364.4	326.2	308.3	298.1	300.7	316.0	331.3	331.3
35°	2741.8	1811.8	553.0	346.6	308.3	290.5	282.8	290.5	305.8	321.1	321.1
37.5°	2831.0	1829.6	530.0	331.3	293.0	275.2	270.1	280.3	298.1	313.4	316.0
40°	2925.3	1844.9	504.5	316.0	282.8	262.5	259.9	270.1	293.0	308.3	310.9
42.5°	3042.5	1875.5	474.0	303.2	272.7	247.2	249.7	257.4	280.3	303.2	305.8
45°	3271.9	1972.3	443.4	290.5	259.9	239.5	234.4	239.5	265.0	290.5	295.6
47.5°	3702.5	2191.4	410.3	277.8	247.2	234.4	214.0	219.1	242.1	270.1	272.7
50°	4528.1	2657.7	392.4	265.0	237.0	216.6	193.7	193.7	211.5	237.0	237.0
52.5°	5814.9	3493.5	402.6	254.8	224.2	198.8	175.8	173.3	183.5	201.3	201.3
55°	7203.7	4410.9	440.8	244.6	209.0	188.6	163.1	150.3	158.0	168.2	168.2
57.5°	8304.5	4872.1	545.3	239.5	191.1	180.9	147.8	130.0	137.6	147.8	147.8
60°	8788.6	4602.0	662.5	244.6	178.4	168.2	132.5	114.7	127.4	137.6	140.1
62.5°	8396.2	3789.1	710.9	231.9	160.5	150.3	130.0	107.0	122.3	130.0	132.5
65°	7547.7	2879.4	555.5	201.3	147.8	130.0	117.2	101.9	114.7	122.3	122.3
66°	7145.1	2509.9	474.0	186.0	142.7	122.3	112.1	101.9	112.1	117.2	119.8
67.5°	6520.8	1979.9	351.6	163.1	132.5	112.1	104.5	96.8	107.0	112.1	112.1
70°	5098.9	1179.8	211.5	127.4	114.7	99.4	94.3	89.2	96.8	99.4	99.4
72.5°	3192.9	560.6	135.1	94.3	96.8	94.3	79.0	84.1	86.6	89.2	89.2
75°	1546.7	221.7	91.7	68.8	79.0	89.2	63.7	73.9	76.4	81.5	79.0
77.5°	430.6	107.0	58.6	51.0	68.8	68.8	48.4	58.6	68.8	86.6	79.0
80°	124.9	68.8	38.2	38.2	48.4	48.4	33.1	40.8	45.9	51.0	53.5
82.5°	86.6	45.9	25.5	28.0	28.0	30.6	20.4	20.4	25.5	25.5	28.0
85°	68.8	20.4	15.3	17.8	12.7	15.3	10.2	10.2	12.7	10.2	10.2
87.5°	28.0	10.2	10.2	10.2	7.6	7.6	5.1	2.5	2.5	2.5	2.5
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)