

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: P1211518

Luminaire Tested: **ARCH4-300-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211518
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: ARCH4-300-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28762 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 299.2
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

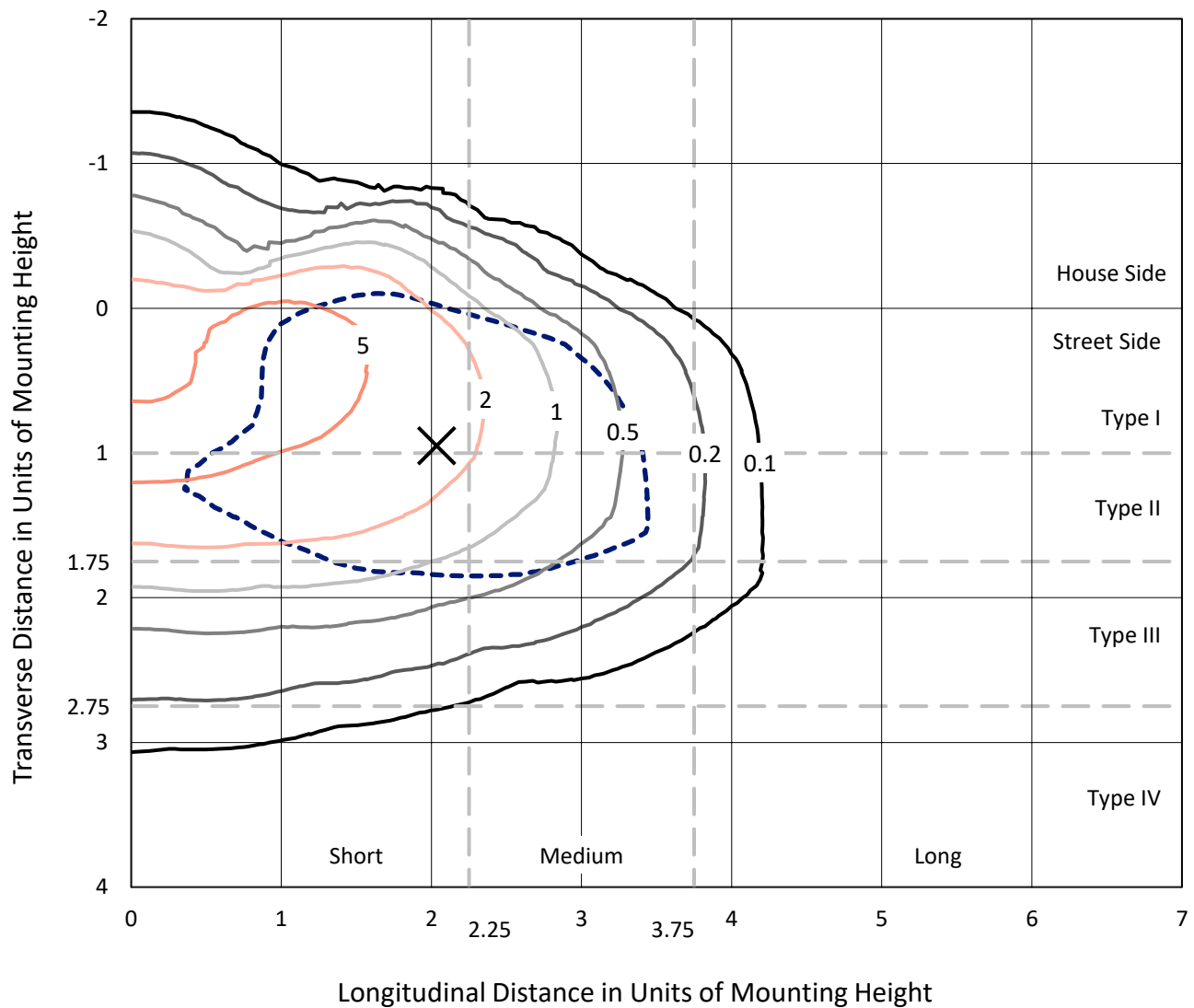


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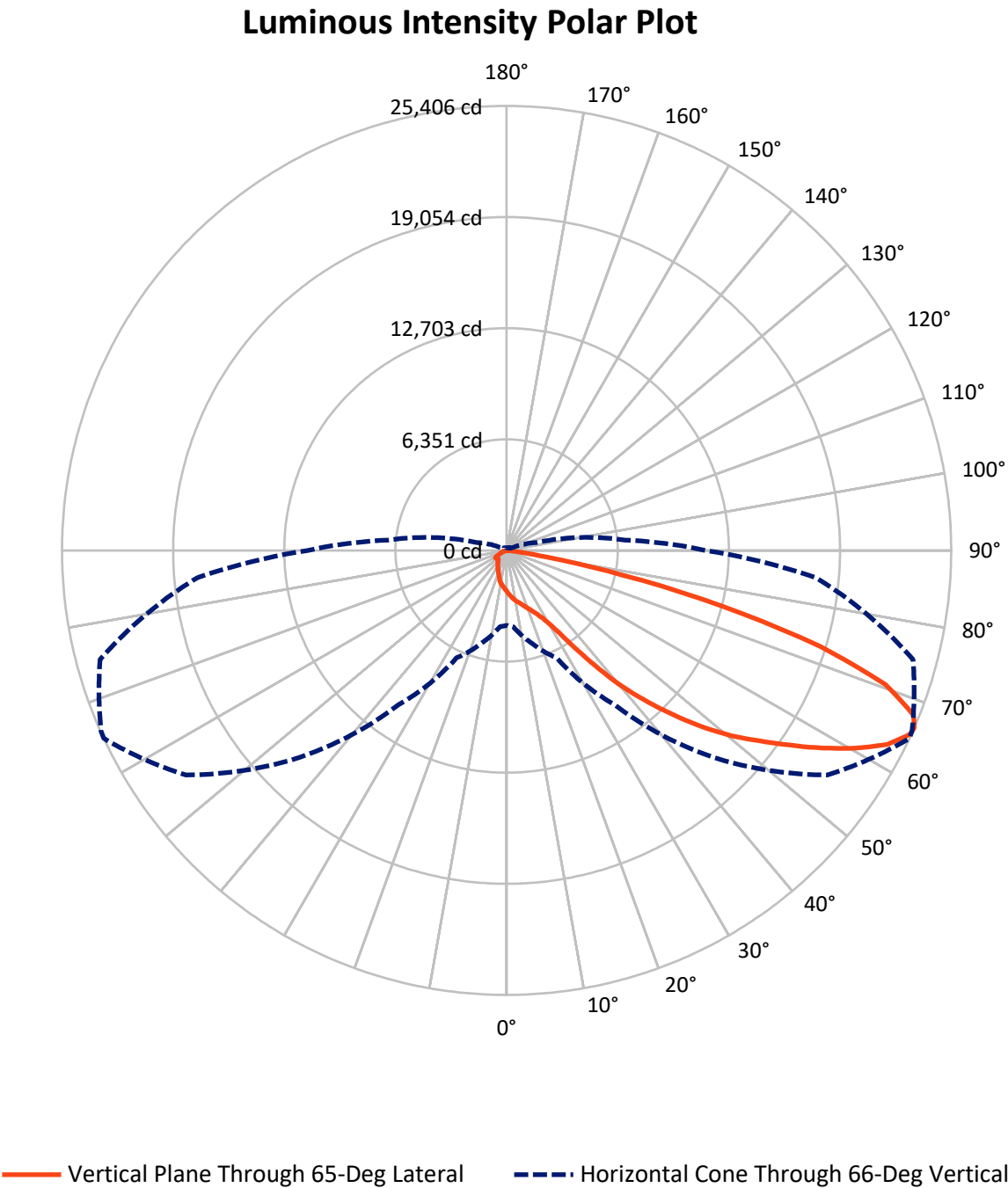
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3394.5	0.0	3394.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	25367.5	0.0	25367.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	28762.0	0.0	28762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	0.8
10°-20°	657.6	2.3
20°-30°	1203.7	4.2
30°-40°	2445.8	8.5
40°-50°	5164.9	18.0
50°-60°	7940.1	27.6
60°-70°	7992.3	27.8
70°-80°	2986.3	10.4
80°-90°	149.2	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°	28762.0	100.0
0°-180°	28762.0	100.0

Coefficient of Utilization



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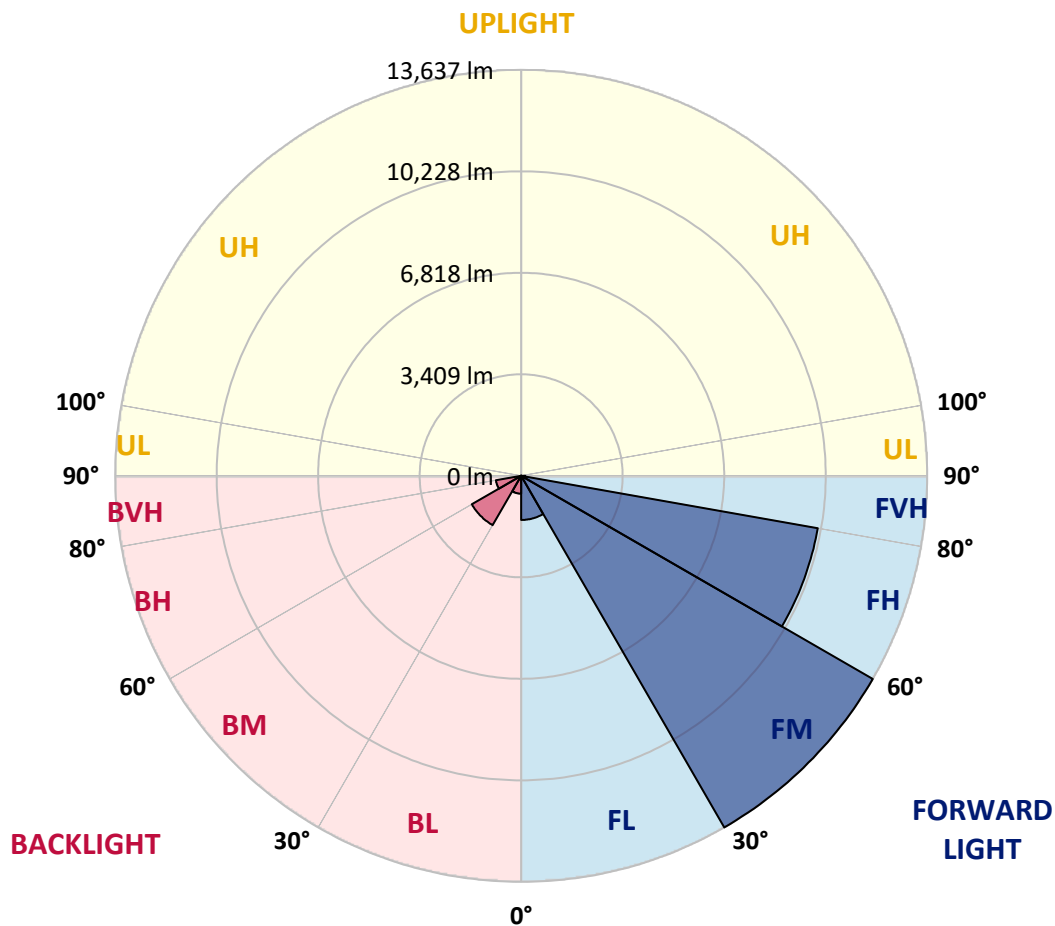
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.6	5.2			
FM	(30°-60°)	13636.9	47.4			
FH	(60°-80°)	10116.3	35.2			G4/12000
FVH	(80°-90°)	131.6	0.5			G2/225
BL	(0°-30°)	600.8	2.1	B2/1000		
BM	(30°-60°)	1913.9	6.7	B2/2500		
BH	(60°-80°)	862.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3
2.5°	2672.1	2677.3	2666.9	2646.0	2625.1	2599.0	2557.3	2489.4	2479.0	2432.0	2379.8
5°	2854.7	2865.2	2849.5	2844.3	2833.9	2797.3	2739.9	2640.8	2630.3	2536.4	2416.4
7.5°	2917.4	2933.0	2922.6	2922.6	2922.6	2906.9	2880.8	2792.1	2776.5	2656.4	2473.8
10°	2964.3	2974.8	2969.6	2990.4	3006.1	2995.7	2980.0	2927.8	2912.2	2792.1	2552.1
12.5°	3037.4	3042.6	3047.8	3058.3	3084.4	3094.8	3089.6	3042.6	3032.2	2948.7	2651.2
15°	3105.3	3105.3	3110.5	3157.4	3194.0	3214.9	3220.1	3183.5	3173.1	3105.3	2776.5
17.5°	3167.9	3173.1	3188.8	3240.9	3303.6	3345.3	3371.4	3355.8	3340.1	3287.9	2922.6
20°	3261.8	3272.3	3287.9	3361.0	3423.6	3491.5	3543.6	3538.4	3533.2	3496.7	3094.8
22.5°	3423.6	3434.0	3460.1	3528.0	3590.6	3674.1	3762.8	3757.6	3742.0	3715.9	3298.4
25°	3668.9	3668.9	3684.6	3742.0	3820.2	3919.4	4002.9	4018.6	4002.9	3987.3	3554.1
27.5°	3976.8	3982.0	3982.0	4044.7	4117.7	4243.0	4347.4	4363.0	4363.0	4347.4	3898.5
30°	4404.8	4389.1	4378.7	4430.9	4509.1	4691.8	4874.5	4905.8	4890.1	4916.2	4383.9
32.5°	5140.6	5114.5	5025.8	5036.3	5083.2	5333.7	5641.6	5751.2	5746.0	5793.0	5166.7
35°	6158.3	6106.1	5975.7	5866.1	5860.8	6132.2	6601.9	7014.2	7009.0	7170.8	6356.6
37.5°	7306.5	7374.3	7129.0	6941.2	6883.8	7097.7	7703.1	8595.6	8642.5	8924.3	7917.1
40°	8840.8	8882.6	8569.5	8303.3	8031.9	8110.2	8908.7	10296.9	10380.4	10693.6	9477.6
42.5°	10176.9	10218.6	10036.0	9712.4	9368.0	9221.8	10124.7	11841.7	11909.6	12342.7	11085.0
45°	11085.0	11116.3	11178.9	11210.2	10818.8	10516.1	11612.1	13428.3	13511.8	14012.8	12655.9
47.5°	11794.8	11820.8	11946.1	12259.2	12181.0	11940.9	13125.6	15077.5	15098.3	15656.8	14185.0
50°	12123.5	12186.2	12494.1	12974.2	13318.7	13386.5	14769.5	16637.9	16695.3	17227.6	15630.7
52.5°	11758.2	11779.1	12556.7	13459.6	14153.7	14842.6	16418.7	18083.5	18250.6	18647.2	16930.2
55°	10526.6	10677.9	11857.4	13443.9	14811.3	16225.6	18182.7	19644.0	19795.4	20045.9	18073.1
57.5°	9096.6	9263.6	10698.8	12770.7	15093.1	17504.2	19816.2	21303.6	21408.0	21475.8	19122.1
60°	7859.7	8016.3	9493.2	11481.6	14811.3	18407.1	21334.9	22952.8	23041.5	22858.9	19649.2
62.5°	6341.0	6497.6	7984.9	9775.0	13704.9	18589.8	22462.2	24419.3	24455.8	23960.0	19325.6
65°	4780.5	4884.9	6127.0	7661.4	11768.7	17619.1	22717.9	25332.6	25296.1	24278.4	18354.9
66°	4284.7	4373.5	5469.4	6774.2	10761.4	16731.8	22373.5	25405.7	25369.2	24043.6	17718.2
67.5°	3695.0	3721.1	4624.0	5542.5	9002.6	14847.8	21324.5	25071.7	25103.0	23396.4	16554.4
70°	2886.1	2880.8	3402.7	3856.8	6147.9	10563.1	17786.1	22968.5	23119.8	20954.0	14117.2
72.5°	1847.5	1784.9	2087.6	2359.0	3580.2	6132.2	12969.0	18720.3	18976.0	16460.5	10516.1
75°	1101.2	1038.6	1111.6	1179.5	1717.0	2948.7	7624.8	12739.4	12984.7	10552.7	6257.5
77.5°	824.6	798.5	803.7	746.3	762.0	1106.4	3481.0	6732.4	6909.8	4321.3	2374.6
80°	631.5	563.6	527.1	553.2	501.0	438.4	1294.3	2317.2	2426.8	1022.9	495.8
82.5°	422.7	365.3	339.2	370.5	318.4	245.3	313.1	448.8	438.4	276.6	193.1
85°	219.2	187.9	187.9	187.9	161.8	120.0	135.7	182.7	182.7	146.1	114.8
87.5°	62.6	57.4	67.8	62.6	47.0	47.0	52.2	62.6	62.6	57.4	52.2
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°	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3	2343.3
2.5°	2338.1	2317.2	2259.8	2218.0	2176.3	2139.8	2098.0	2087.6	2066.7	2071.9	2061.5
5°	2353.7	2296.3	2197.2	2103.2	2030.2	1967.5	1889.2	1857.9	1816.2	1800.5	1790.1
7.5°	2374.6	2291.1	2145.0	2014.5	1889.2	1764.0	1638.7	1565.7	1518.7	1497.8	1482.2
10°	2421.6	2312.0	2118.9	1915.3	1701.4	1523.9	1398.7	1346.5	1315.2	1309.9	1304.7
12.5°	2484.2	2343.3	2092.8	1790.1	1508.3	1341.3	1263.0	1247.3	1242.1	1242.1	1236.9
15°	2578.1	2395.5	2051.0	1644.0	1356.9	1242.1	1205.6	1179.5	1169.0	1169.0	1169.0
17.5°	2672.1	2458.1	1988.4	1492.6	1252.5	1179.5	1142.9	1127.3	1116.8	1122.1	1116.8
20°	2792.1	2531.2	1904.9	1362.1	1184.7	1127.3	1090.8	1075.1	1069.9	1069.9	1069.9
22.5°	2927.8	2614.7	1800.5	1263.0	1127.3	1075.1	1038.6	1022.9	1012.5	1017.7	1017.7
25°	3110.5	2719.1	1690.9	1163.8	1069.9	1022.9	981.2	960.3	960.3	965.5	970.7
27.5°	3345.3	2844.3	1581.3	1101.2	1017.7	970.7	923.7	902.9	908.1	918.5	918.5
30°	3689.8	3016.5	1471.7	1033.3	960.3	908.1	866.3	845.5	855.9	876.8	876.8
32.5°	4180.4	3298.4	1377.8	955.1	876.8	819.4	777.6	762.0	788.1	829.8	829.8
35°	5057.1	3815.0	1320.4	876.8	788.1	720.2	668.0	652.4	688.9	741.1	741.1
37.5°	6231.4	4644.8	1341.3	808.9	715.0	636.7	579.3	558.4	584.5	631.5	647.1
40°	7541.3	5646.9	1523.9	751.5	647.1	568.9	511.5	490.6	506.2	527.1	532.3
42.5°	8851.3	6711.5	1868.4	709.8	595.0	511.5	459.3	443.6	454.0	459.3	464.5
45°	10156.0	7765.7	2301.5	683.7	548.0	464.5	412.3	412.3	417.5	417.5	417.5
47.5°	11392.9	8793.9	2755.6	678.5	506.2	417.5	375.8	381.0	381.0	386.2	386.2
50°	12561.9	9712.4	3214.9	694.1	469.7	375.8	344.4	344.4	344.4	349.7	344.4
52.5°	13537.9	10516.1	3695.0	720.2	433.2	344.4	313.1	313.1	313.1	318.4	313.1
55°	14461.6	11246.8	4185.6	756.7	401.9	318.4	287.0	276.6	276.6	281.8	276.6
57.5°	15213.1	11732.1	4650.1	762.0	375.8	292.3	266.2	250.5	250.5	250.5	250.5
60°	15244.5	11450.3	4785.7	668.0	344.4	266.2	240.1	219.2	224.4	224.4	224.4
62.5°	14247.6	9968.1	3846.3	501.0	307.9	240.1	219.2	198.3	198.3	198.3	198.3
65°	12290.5	7755.3	2254.6	396.6	266.2	214.0	193.1	177.4	177.4	177.4	172.2
66°	11372.0	6800.2	1727.5	360.1	250.5	208.8	187.9	172.2	167.0	161.8	161.8
67.5°	9874.2	5375.5	1080.3	318.4	229.6	193.1	172.2	156.6	151.3	146.1	146.1
70°	7437.0	3413.2	527.1	245.3	198.3	167.0	151.3	135.7	130.5	125.3	120.0
72.5°	5218.9	1998.8	276.6	187.9	161.8	146.1	130.5	114.8	109.6	104.4	104.4
75°	2948.7	965.5	182.7	135.7	130.5	120.0	109.6	93.9	88.7	88.7	88.7
77.5°	1116.8	334.0	125.3	99.2	104.4	93.9	78.3	78.3	73.1	78.3	73.1
80°	292.3	146.1	78.3	73.1	78.3	67.8	57.4	62.6	62.6	62.6	62.6
82.5°	156.6	83.5	47.0	52.2	47.0	47.0	36.5	41.8	47.0	41.8	47.0
85°	109.6	41.8	26.1	26.1	20.9	20.9	15.7	20.9	26.1	20.9	20.9
87.5°	57.4	15.7	15.7	15.7	15.7	10.4	5.2	0.0	5.2	5.2	5.2
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)