

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: P1211004

Luminaire Tested: **ARCH4-140-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211004
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: ARCH4-140-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

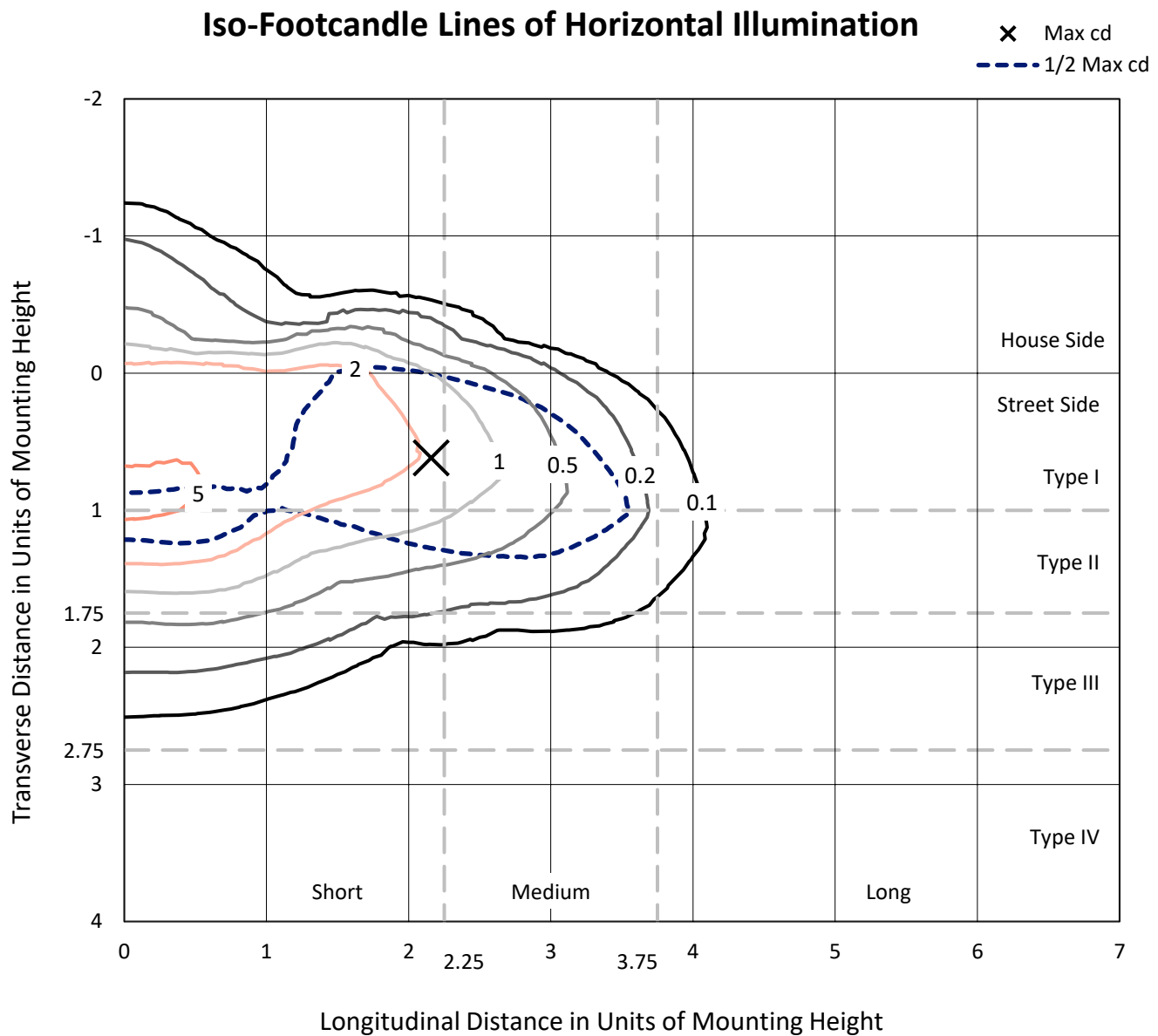
Lumens per Lamp: N/A
Luminaire Lumens: 16221 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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



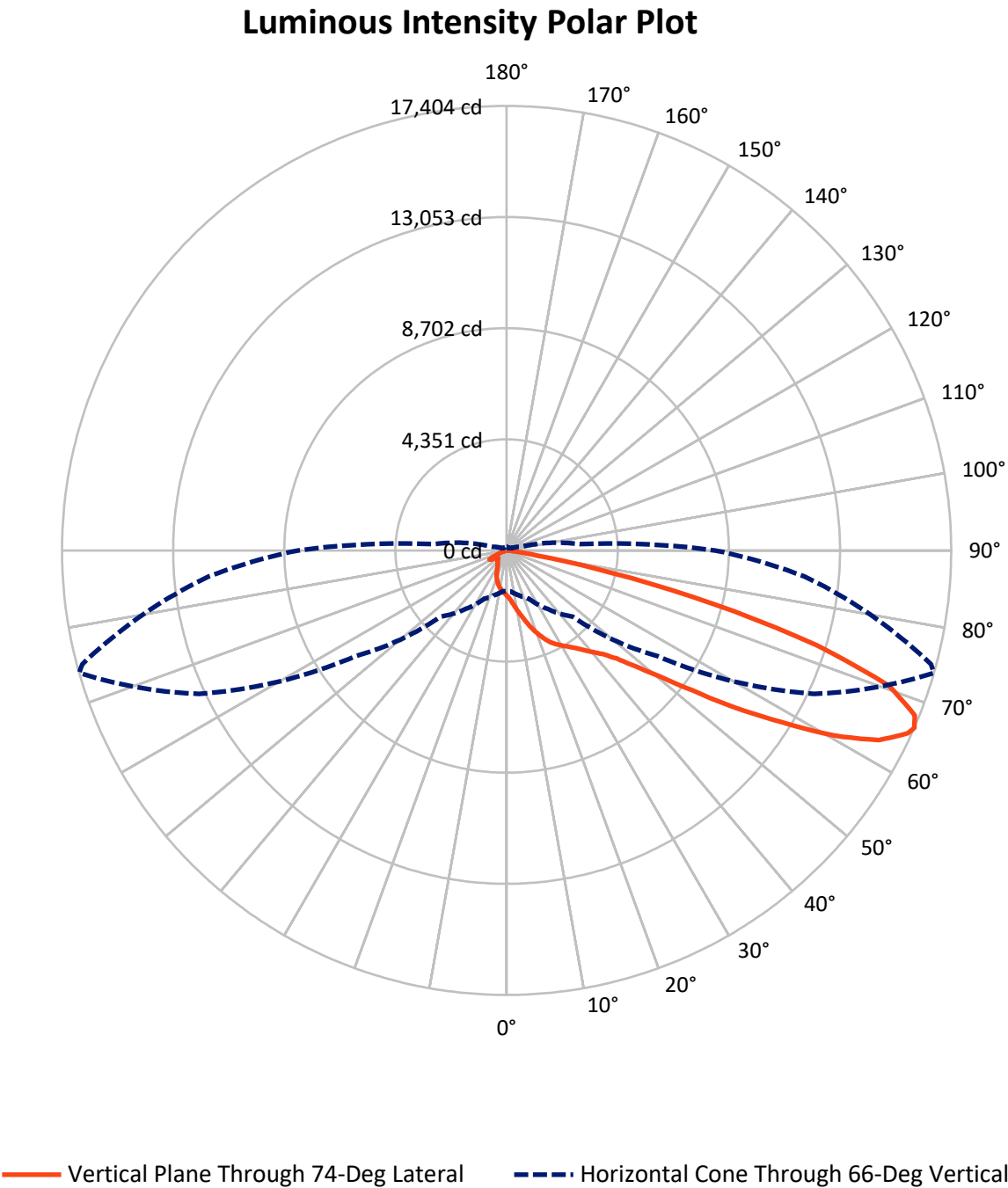
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Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.2	0.0	1590.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14630.8	0.0	14630.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	16221.0	0.0	16221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.1
10°-20°	554.1	3.4
20°-30°	1057.4	6.5
30°-40°	1853.3	11.4
40°-50°	3178.0	19.6
50°-60°	4133.2	25.5
60°-70°	3741.6	23.1
70°-80°	1443.7	8.9
80°-90°	86.9	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°	16221.0	100.0
0°-180°	16221.0	100.0

Coefficient of Utilization



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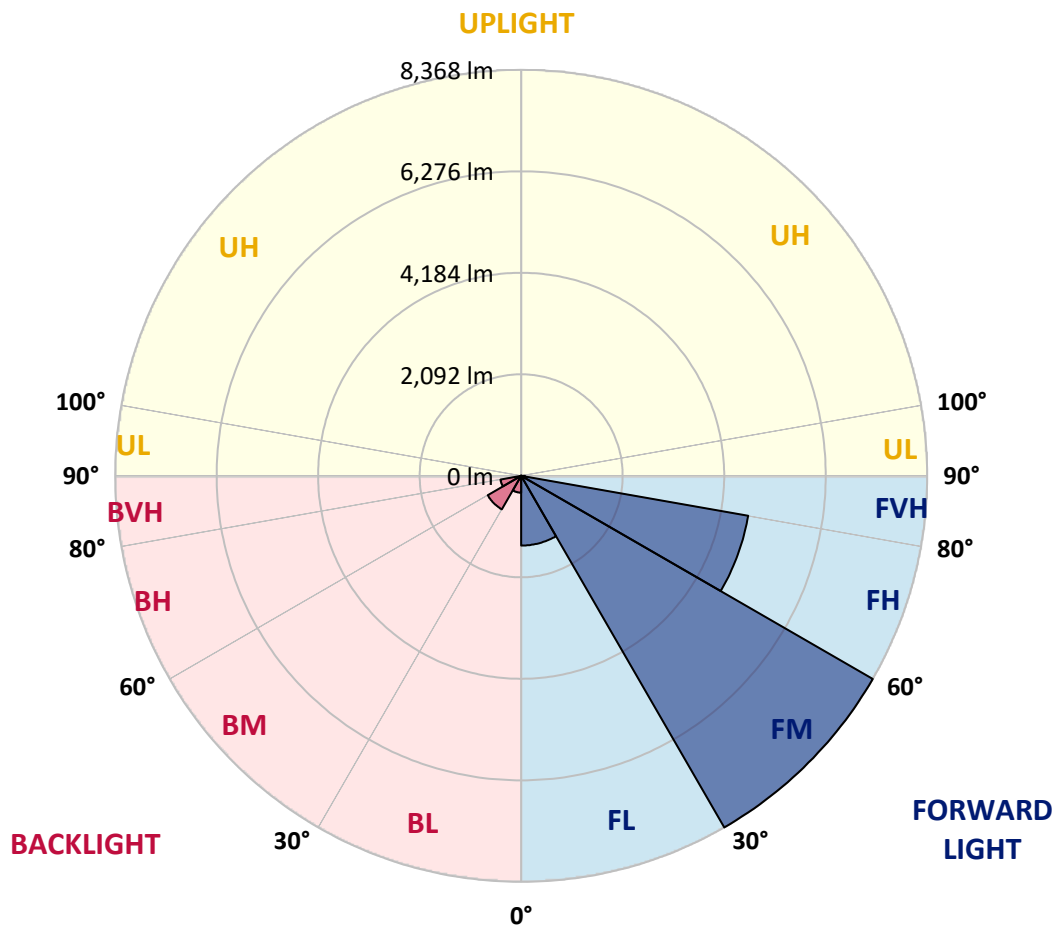
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1437.4	8.9			
FM	(30°-60°)	8367.6	51.6			
FH	(60°-80°)	4750.6	29.3			G2/5000
FVH	(80°-90°)	75.2	0.5			G1/100
BL	(0°-30°)	346.9	2.1	B1/500		
BM	(30°-60°)	796.9	4.9	B1/1000		
BH	(60°-80°)	434.7	2.7	B1/500		G1/500
BVH	(80°-90°)	11.6	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°	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	2126.0	2108.5	2076.5	2073.5	2047.3	2015.3	1960.0	1901.7	1860.9	1855.1	1805.6
5°	2545.3	2536.6	2504.6	2484.2	2434.7	2358.9	2230.8	2102.7	1994.9	1983.3	1872.6
7.5°	2656.0	2661.8	2667.6	2688.0	2670.6	2635.6	2539.5	2358.9	2190.0	2163.8	1971.6
10°	2673.5	2667.6	2667.6	2693.9	2743.4	2792.9	2781.2	2626.9	2408.5	2376.4	2108.5
12.5°	2862.8	2871.5	2851.1	2839.5	2830.7	2856.9	2944.3	2877.3	2638.5	2612.3	2274.5
15°	3107.4	3104.5	3075.4	3075.4	3049.2	3005.5	3060.8	3110.3	2915.2	2883.2	2463.8
17.5°	3285.0	3296.7	3293.8	3311.3	3302.5	3244.3	3215.2	3317.1	3200.6	3159.8	2679.3
20°	3427.7	3459.8	3471.4	3526.8	3553.0	3512.2	3436.5	3500.6	3474.3	3436.5	2897.7
22.5°	3579.2	3605.4	3625.8	3721.9	3794.7	3786.0	3689.9	3675.3	3739.4	3704.4	3113.2
25°	3730.6	3742.3	3803.4	3919.9	4036.4	4065.5	3966.5	3852.9	3978.2	3946.1	3305.4
27.5°	3896.6	3902.4	3975.3	4118.0	4281.0	4342.2	4263.6	4053.9	4161.6	4161.6	3480.2
30°	4199.5	4257.7	4286.9	4415.0	4557.7	4642.2	4549.0	4266.5	4324.7	4350.9	3663.6
32.5°	4851.8	4860.6	4851.8	4907.2	4936.3	4985.8	4878.1	4505.3	4490.7	4519.8	3844.2
35°	5847.8	5812.9	5719.7	5638.2	5469.2	5376.1	5236.3	4811.1	4694.6	4735.4	4021.8
37.5°	7056.4	7006.9	6794.3	6543.9	6182.8	5810.0	5635.2	5183.8	4953.8	5006.2	4214.1
40°	8209.7	8177.7	7924.3	7615.6	6998.2	6360.4	5990.5	5498.4	5242.1	5262.5	4409.2
42.5°	9159.1	9153.3	8940.7	8617.4	7825.3	6954.5	6409.9	5807.1	5545.0	5577.0	4613.0
45°	9878.4	9823.1	9665.8	9432.9	8626.2	7571.9	6916.6	6275.9	6031.3	6069.2	4918.8
47.5°	9878.4	9887.2	9989.1	9965.8	9185.3	8151.5	7470.0	6867.1	6750.7	6785.6	5422.7
50°	9074.6	9156.2	9610.5	9992.0	9476.5	8602.9	8067.0	7606.9	7726.3	7778.7	6302.2
52.5°	7484.5	7621.4	8410.6	9281.4	9261.0	8830.0	8684.4	8547.5	9083.4	9176.6	7601.0
55°	5687.7	5778.0	6806.0	7950.5	8323.3	8643.6	9223.2	9741.6	10880.3	10859.9	8920.3
57.5°	4249.0	4333.5	5218.8	6488.5	6980.7	7836.9	9499.8	11107.4	12662.6	12741.2	10158.0
60°	3124.9	3188.9	3943.2	4985.8	5696.4	6602.1	9389.2	12452.9	14715.7	14625.4	11250.1
62.5°	2312.3	2347.3	2891.9	3570.4	4514.0	5379.0	8693.1	13373.2	16355.3	16171.9	11858.8
65°	1788.1	1799.8	2082.3	2443.4	3282.1	4182.0	7656.4	13512.9	17261.0	17065.9	11847.1
66°	1593.0	1601.8	1808.5	2088.1	2792.9	3660.7	7202.1	13288.7	17403.7	17197.0	11701.5
67.5°	1336.7	1330.9	1453.2	1636.7	2096.8	2824.9	6395.4	12633.4	17234.8	17130.0	11235.6
70°	990.2	993.1	1054.2	1097.9	1226.1	1563.9	4618.9	10958.9	15883.5	15877.7	9957.1
72.5°	733.9	742.6	789.2	798.0	765.9	847.5	2661.8	8716.4	12706.2	12709.2	7443.8
75°	550.4	565.0	579.5	585.4	556.2	535.9	1202.8	5865.3	8358.2	8297.1	4214.1
77.5°	419.4	425.2	436.8	428.1	422.3	369.9	500.9	2859.9	4126.7	3759.7	1365.9
80°	305.8	305.8	317.4	305.8	302.9	265.0	273.8	917.4	1211.5	1007.6	294.1
82.5°	192.2	189.3	198.0	195.1	189.3	168.9	160.2	256.3	279.6	250.5	142.7
85°	107.8	104.8	101.9	99.0	90.3	75.7	87.4	96.1	128.1	131.1	101.9
87.5°	37.9	37.9	34.9	32.0	26.2	26.2	32.0	32.0	46.6	46.6	52.4
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°	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	1782.3	1750.3	1703.7	1642.5	1598.8	1555.2	1508.6	1482.3	1444.5	1435.8	1447.4
5°	1814.3	1756.1	1639.6	1511.5	1400.8	1301.8	1208.6	1153.3	1097.9	1077.5	1086.3
7.5°	1881.3	1782.3	1584.3	1377.5	1194.0	1045.5	934.8	870.8	821.3	800.9	806.7
10°	1980.3	1828.9	1531.9	1226.1	990.2	832.9	739.7	698.9	669.8	658.2	661.1
12.5°	2099.7	1895.9	1464.9	1074.6	815.4	678.6	634.9	626.1	620.3	614.5	617.4
15°	2233.7	1954.1	1386.2	926.1	678.6	602.8	588.3	585.4	582.5	582.5	582.5
17.5°	2373.5	2006.6	1298.9	786.3	591.2	556.2	547.5	547.5	547.5	550.4	550.4
20°	2504.6	2047.3	1196.9	661.1	541.7	512.6	506.7	506.7	509.6	512.6	512.6
22.5°	2632.7	2064.8	1077.5	573.7	500.9	474.7	466.0	466.0	466.0	468.9	468.9
25°	2743.4	2064.8	958.1	518.4	466.0	439.8	428.1	425.2	428.1	428.1	428.1
27.5°	2836.6	2056.1	841.6	480.5	431.0	404.8	393.2	390.2	396.1	399.0	399.0
30°	2935.6	2044.4	748.5	445.6	401.9	375.7	364.0	364.0	372.8	384.4	384.4
32.5°	3031.7	2053.2	675.6	416.5	372.8	352.4	340.7	343.6	361.1	378.6	378.6
35°	3133.6	2070.6	632.0	396.1	352.4	332.0	323.3	332.0	349.5	366.9	366.9
37.5°	3235.5	2091.0	605.8	378.6	334.9	314.5	308.7	320.4	340.7	358.2	361.1
40°	3343.3	2108.5	576.6	361.1	323.3	300.0	297.1	308.7	334.9	352.4	355.3
42.5°	3477.3	2143.4	541.7	346.6	311.6	282.5	285.4	294.1	320.4	346.6	349.5
45°	3739.4	2254.1	506.7	332.0	297.1	273.8	267.9	273.8	302.9	332.0	337.8
47.5°	4231.5	2504.6	468.9	317.4	282.5	267.9	244.6	250.5	276.7	308.7	311.6
50°	5175.1	3037.5	448.5	302.9	270.8	247.5	221.3	221.3	241.7	270.8	270.8
52.5°	6645.8	3992.7	460.1	291.2	256.3	227.2	200.9	198.0	209.7	230.1	230.1
55°	8233.0	5041.1	503.8	279.6	238.8	215.5	186.4	171.8	180.6	192.2	192.2
57.5°	9491.1	5568.3	623.2	273.8	218.4	206.8	168.9	148.5	157.3	168.9	168.9
60°	10044.4	5259.6	757.2	279.6	203.9	192.2	151.4	131.1	145.6	157.3	160.2
62.5°	9595.9	4330.6	812.5	265.0	183.5	171.8	148.5	122.3	139.8	148.5	151.4
65°	8626.2	3290.9	634.9	230.1	168.9	148.5	134.0	116.5	131.1	139.8	139.8
66°	8166.0	2868.6	541.7	212.6	163.1	139.8	128.1	116.5	128.1	134.0	136.9
67.5°	7452.5	2262.8	401.9	186.4	151.4	128.1	119.4	110.7	122.3	128.1	128.1
70°	5827.5	1348.4	241.7	145.6	131.1	113.6	107.8	101.9	110.7	113.6	113.6
72.5°	3649.1	640.7	154.4	107.8	110.7	107.8	90.3	96.1	99.0	101.9	101.9
75°	1767.8	253.4	104.8	78.6	90.3	101.9	72.8	84.5	87.4	93.2	90.3
77.5°	492.2	122.3	67.0	58.2	78.6	78.6	55.3	67.0	78.6	99.0	90.3
80°	142.7	78.6	43.7	43.7	55.3	55.3	37.9	46.6	52.4	58.2	61.2
82.5°	99.0	52.4	29.1	32.0	32.0	34.9	23.3	23.3	29.1	29.1	32.0
85°	78.6	23.3	17.5	20.4	14.6	17.5	11.6	11.6	14.6	11.6	11.6
87.5°	32.0	11.6	11.6	11.6	8.7	8.7	5.8	2.9	2.9	2.9	2.9
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)