

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: P1210492

Luminaire Tested: **ARCH3-140-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210492
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: ARCH3-140-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14241 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 142.5
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

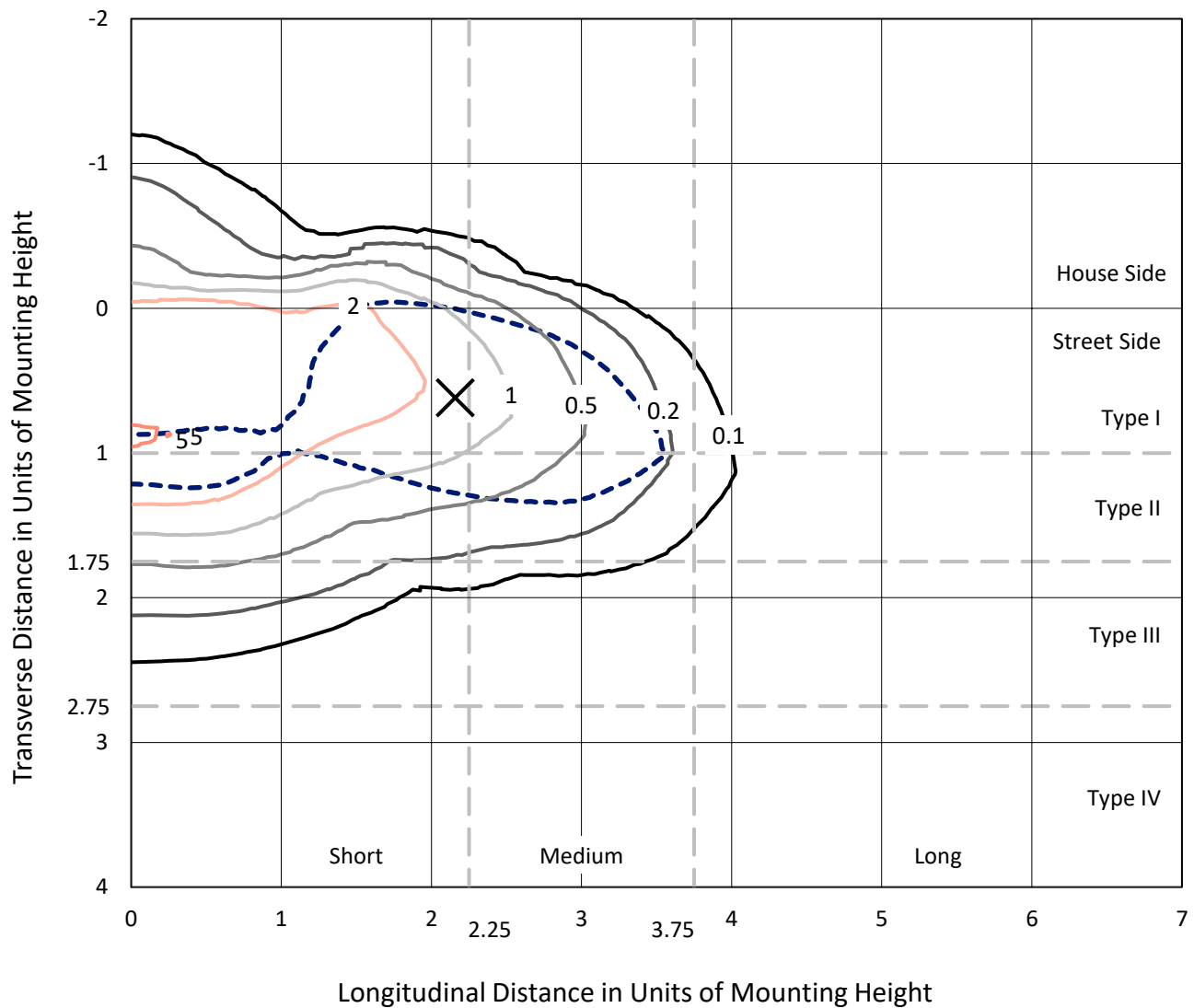


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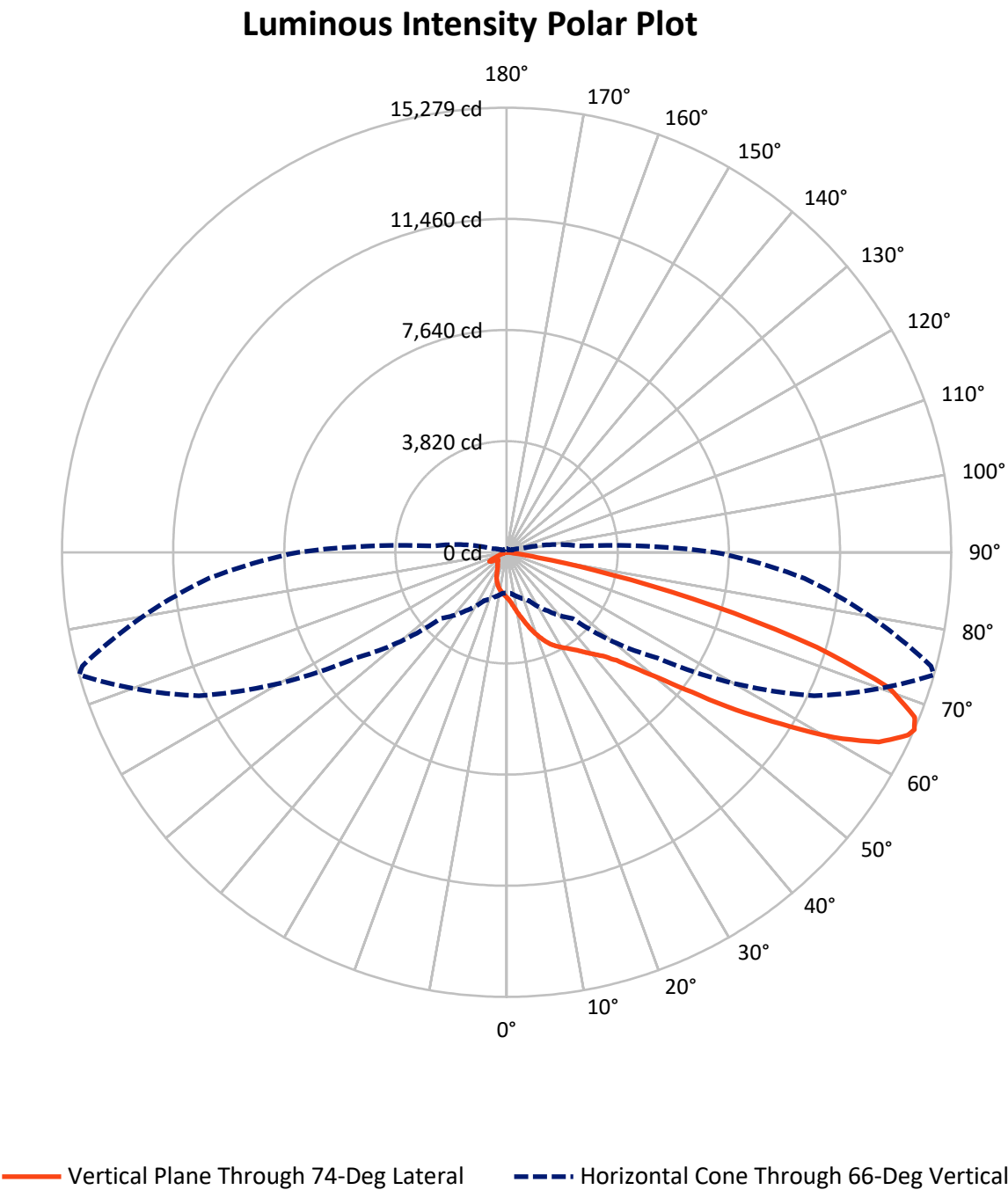
Iso-Footcandle Lines of Horizontal Illumination

✕ 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	1396.1	0.0	1396.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12844.9	0.0	12844.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	14241.0	0.0	14241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.1
10°-20°	486.4	3.4
20°-30°	928.3	6.5
30°-40°	1627.1	11.4
40°-50°	2790.1	19.6
50°-60°	3628.7	25.5
60°-70°	3284.9	23.1
70°-80°	1267.5	8.9
80°-90°	76.3	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°	14241.0	100.0
0°-180°	14241.0	100.0

Coefficient of Utilization



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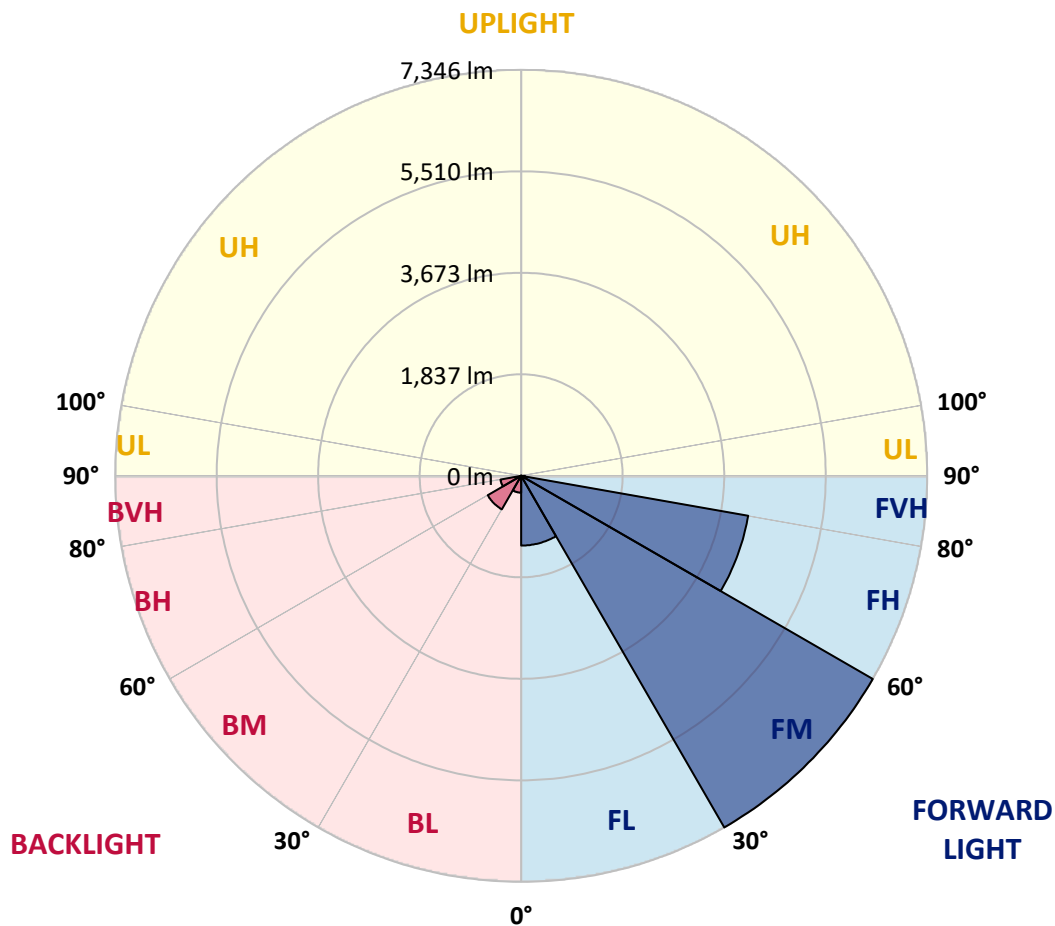
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1262.0	8.9			
FM	(30°-60°)	7346.2	51.6			
FH	(60°-80°)	4170.7	29.3			G2/5000
FVH	(80°-90°)	66.1	0.5			G1/100
BL	(0°-30°)	304.5	2.1	B1/500		
BM	(30°-60°)	699.7	4.9	B1/1000		
BH	(60°-80°)	381.7	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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1866.5	1851.1	1823.0	1820.4	1797.4	1769.3	1720.7	1669.6	1633.8	1628.7	1585.2
5°	2234.6	2227.0	2198.8	2180.9	2137.5	2071.0	1958.5	1846.0	1751.4	1741.2	1644.0
7.5°	2331.8	2336.9	2342.0	2359.9	2344.6	2313.9	2229.5	2071.0	1922.7	1899.7	1730.9
10°	2347.1	2342.0	2342.0	2365.0	2408.5	2452.0	2441.7	2306.2	2114.5	2086.3	1851.1
12.5°	2513.3	2521.0	2503.1	2492.9	2485.2	2508.2	2584.9	2526.1	2316.5	2293.4	1996.9
15°	2728.1	2725.5	2700.0	2700.0	2677.0	2638.6	2687.2	2730.7	2559.3	2531.2	2163.0
17.5°	2884.1	2894.3	2891.7	2907.1	2899.4	2848.3	2822.7	2912.2	2809.9	2774.1	2352.2
20°	3009.3	3037.5	3047.7	3096.3	3119.3	3083.5	3017.0	3073.3	3050.3	3017.0	2544.0
22.5°	3142.3	3165.3	3183.2	3267.6	3331.5	3323.8	3239.5	3226.7	3282.9	3252.2	2733.2
25°	3275.2	3285.5	3339.2	3441.4	3543.7	3569.3	3482.3	3382.6	3492.6	3464.5	2902.0
27.5°	3421.0	3426.1	3490.0	3615.3	3758.5	3812.2	3743.1	3559.1	3653.7	3653.7	3055.4
30°	3686.9	3738.0	3763.6	3876.1	4001.4	4075.5	3993.7	3745.7	3796.8	3819.8	3216.4
32.5°	4259.6	4267.3	4259.6	4308.2	4333.8	4377.2	4282.6	3955.4	3942.6	3968.1	3375.0
35°	5134.0	5103.4	5021.5	4949.9	4801.7	4719.8	4597.1	4223.8	4121.5	4157.3	3530.9
37.5°	6195.1	6151.6	5965.0	5745.1	5428.1	5100.8	4947.4	4551.1	4349.1	4395.1	3699.7
40°	7207.6	7179.5	6957.0	6686.0	6144.0	5584.0	5259.3	4827.2	4602.2	4620.1	3871.0
42.5°	8041.1	8036.0	7849.3	7565.5	6870.1	6105.6	5627.5	5098.2	4868.1	4896.3	4050.0
45°	8672.6	8624.1	8486.0	8281.4	7573.2	6647.7	6072.4	5509.9	5295.1	5328.4	4318.4
47.5°	8672.6	8680.3	8769.8	8749.3	8064.1	7156.5	6558.2	6028.9	5926.6	5957.3	4760.7
50°	7967.0	8038.5	8437.4	8772.3	8319.8	7552.8	7082.3	6678.3	6783.2	6829.2	5532.9
52.5°	6571.0	6691.1	7384.0	8148.5	8130.6	7752.2	7624.3	7504.2	7974.6	8056.4	6673.2
55°	4993.4	5072.7	5975.2	6980.0	7307.3	7588.6	8097.4	8552.5	9552.2	9534.3	7831.4
57.5°	3730.4	3804.5	4581.8	5696.5	6128.6	6880.3	8340.2	9751.6	11116.9	11186.0	8918.1
60°	2743.4	2799.7	3461.9	4377.2	5001.1	5796.2	8243.1	10932.8	12919.5	12840.2	9876.9
62.5°	2030.1	2060.8	2538.9	3134.6	3963.0	4722.4	7632.0	11740.8	14358.9	14197.9	10411.2
65°	1569.9	1580.1	1828.1	2145.1	2881.5	3671.6	6721.8	11863.5	15154.1	14982.8	10401.0
66°	1398.6	1406.2	1587.8	1833.2	2452.0	3213.9	6322.9	11666.6	15279.4	15097.8	10273.2
67.5°	1173.6	1168.5	1275.8	1436.9	1840.9	2480.1	5614.7	11091.4	15131.1	15039.0	9864.1
70°	869.3	871.9	925.6	963.9	1076.4	1373.0	4055.1	9621.2	13944.7	13939.6	8741.7
72.5°	644.3	652.0	692.9	700.6	672.4	744.0	2336.9	7652.5	11155.3	11157.8	6535.2
75°	483.2	496.0	508.8	513.9	488.3	470.4	1056.0	5149.4	7338.0	7284.3	3699.7
77.5°	368.2	373.3	383.5	375.8	370.7	324.7	439.8	2510.8	3623.0	3300.8	1199.1
80°	268.5	268.5	278.7	268.5	265.9	232.7	240.3	805.4	1063.6	884.6	258.2
82.5°	168.7	166.2	173.9	171.3	166.2	148.3	140.6	225.0	245.5	219.9	125.3
85°	94.6	92.0	89.5	86.9	79.3	66.5	76.7	84.4	112.5	115.1	89.5
87.5°	33.2	33.2	30.7	28.1	23.0	23.0	28.1	28.1	40.9	40.9	46.0
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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1564.8	1536.6	1495.7	1442.0	1403.7	1365.3	1324.4	1301.4	1268.2	1260.5	1270.7
5°	1592.9	1541.7	1439.5	1327.0	1229.8	1142.9	1061.1	1012.5	963.9	946.0	953.7
7.5°	1651.7	1564.8	1390.9	1209.4	1048.3	917.9	820.7	764.5	721.0	703.1	708.2
10°	1738.6	1605.7	1344.9	1076.4	869.3	731.2	649.4	613.6	588.1	577.8	580.4
12.5°	1843.4	1664.5	1286.1	943.5	715.9	595.7	557.4	549.7	544.6	539.5	542.0
15°	1961.1	1715.6	1217.0	813.1	595.7	529.3	516.5	513.9	511.4	511.4	511.4
17.5°	2083.8	1761.6	1140.3	690.3	519.0	488.3	480.7	480.7	480.7	483.2	483.2
20°	2198.8	1797.4	1050.8	580.4	475.6	450.0	444.9	444.9	447.4	450.0	450.0
22.5°	2311.3	1812.8	946.0	503.7	439.8	416.8	409.1	409.1	409.1	411.6	411.6
25°	2408.5	1812.8	841.2	455.1	409.1	386.1	375.8	373.3	375.8	375.8	375.8
27.5°	2490.3	1805.1	738.9	421.9	378.4	355.4	345.2	342.6	347.7	350.3	350.3
30°	2577.2	1794.9	657.1	391.2	352.8	329.8	319.6	319.6	327.3	337.5	337.5
32.5°	2661.6	1802.5	593.2	365.6	327.3	309.4	299.1	301.7	317.0	332.4	332.4
35°	2751.1	1817.9	554.8	347.7	309.4	291.5	283.8	291.5	306.8	322.2	322.2
37.5°	2840.6	1835.8	531.8	332.4	294.0	276.1	271.0	281.2	299.1	314.5	317.0
40°	2935.2	1851.1	506.2	317.0	283.8	263.3	260.8	271.0	294.0	309.4	311.9
42.5°	3052.8	1881.8	475.6	304.3	273.6	248.0	250.6	258.2	281.2	304.3	306.8
45°	3282.9	1979.0	444.9	291.5	260.8	240.3	235.2	240.3	265.9	291.5	296.6
47.5°	3715.0	2198.8	411.6	278.7	248.0	235.2	214.8	219.9	242.9	271.0	273.6
50°	4543.4	2666.7	393.7	265.9	237.8	217.3	194.3	194.3	212.2	237.8	237.8
52.5°	5834.6	3505.4	404.0	255.7	225.0	199.4	176.4	173.9	184.1	202.0	202.0
55°	7228.0	4425.8	442.3	245.5	209.7	189.2	163.6	150.9	158.5	168.7	168.7
57.5°	8332.6	4888.6	547.2	240.3	191.8	181.5	148.3	130.4	138.1	148.3	148.3
60°	8818.4	4617.6	664.8	245.5	179.0	168.7	133.0	115.1	127.8	138.1	140.6
62.5°	8424.6	3801.9	713.3	232.7	161.1	150.9	130.4	107.4	122.7	130.4	133.0
65°	7573.2	2889.2	557.4	202.0	148.3	130.4	117.6	102.3	115.1	122.7	122.7
66°	7169.2	2518.4	475.6	186.6	143.2	122.7	112.5	102.3	112.5	117.6	120.2
67.5°	6542.8	1986.6	352.8	163.6	133.0	112.5	104.8	97.2	107.4	112.5	112.5
70°	5116.1	1183.8	212.2	127.8	115.1	99.7	94.6	89.5	97.2	99.7	99.7
72.5°	3203.7	562.5	135.5	94.6	97.2	94.6	79.3	84.4	86.9	89.5	89.5
75°	1552.0	222.4	92.0	69.0	79.3	89.5	63.9	74.1	76.7	81.8	79.3
77.5°	432.1	107.4	58.8	51.1	69.0	69.0	48.6	58.8	69.0	86.9	79.3
80°	125.3	69.0	38.4	38.4	48.6	48.6	33.2	40.9	46.0	51.1	53.7
82.5°	86.9	46.0	25.6	28.1	28.1	30.7	20.5	20.5	25.6	25.6	28.1
85°	69.0	20.5	15.3	17.9	12.8	15.3	10.2	10.2	12.8	10.2	10.2
87.5°	28.1	10.2	10.2	10.2	7.7	7.7	5.1	2.6	2.6	2.6	2.6
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)