

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: P1211644

Luminaire Tested: **ARCH4-70-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211644
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: ARCH4-70-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA 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: 8920 lumens
Efficiency: N/A
Efficacy: 120.9 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): 73.8
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



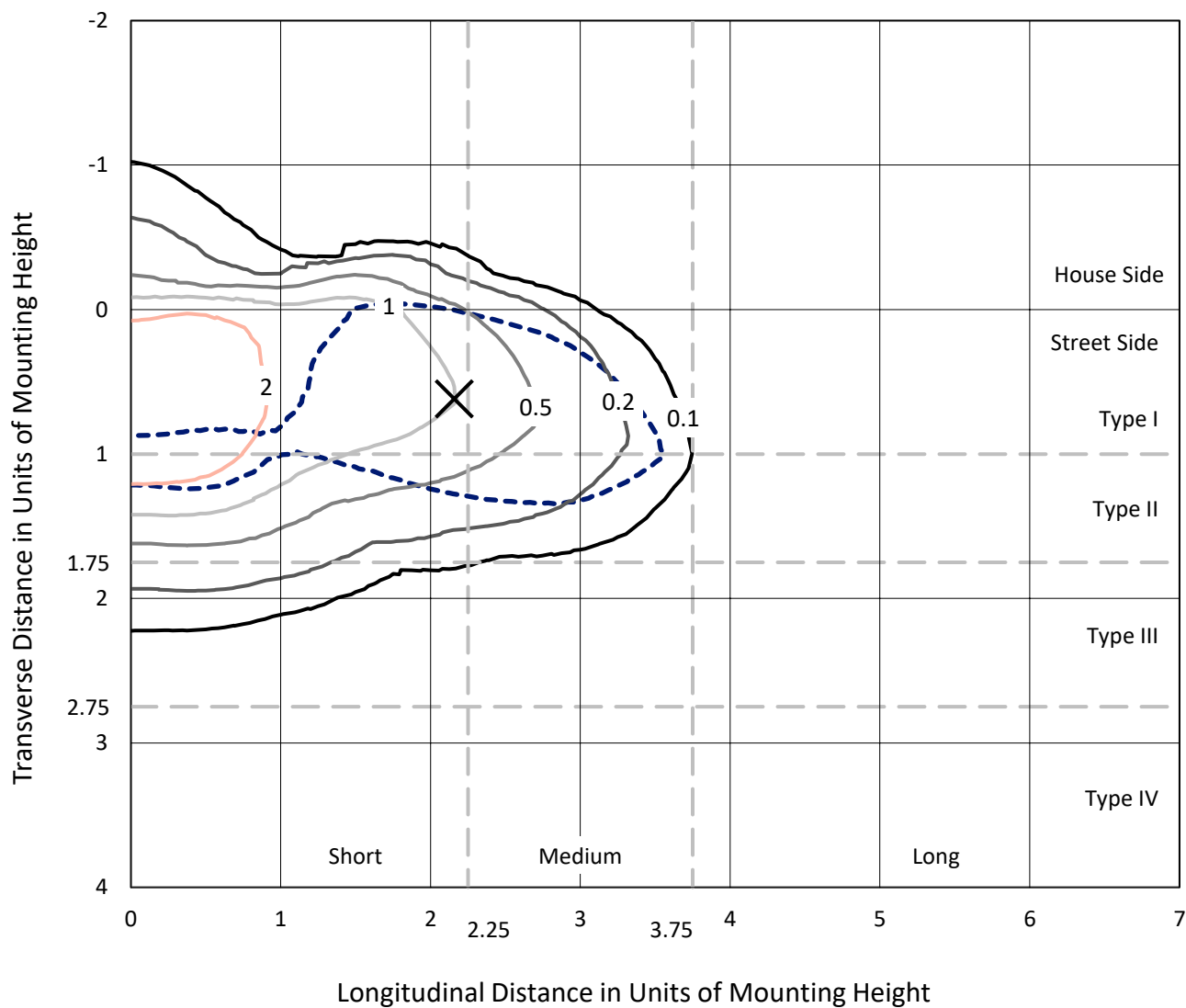
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

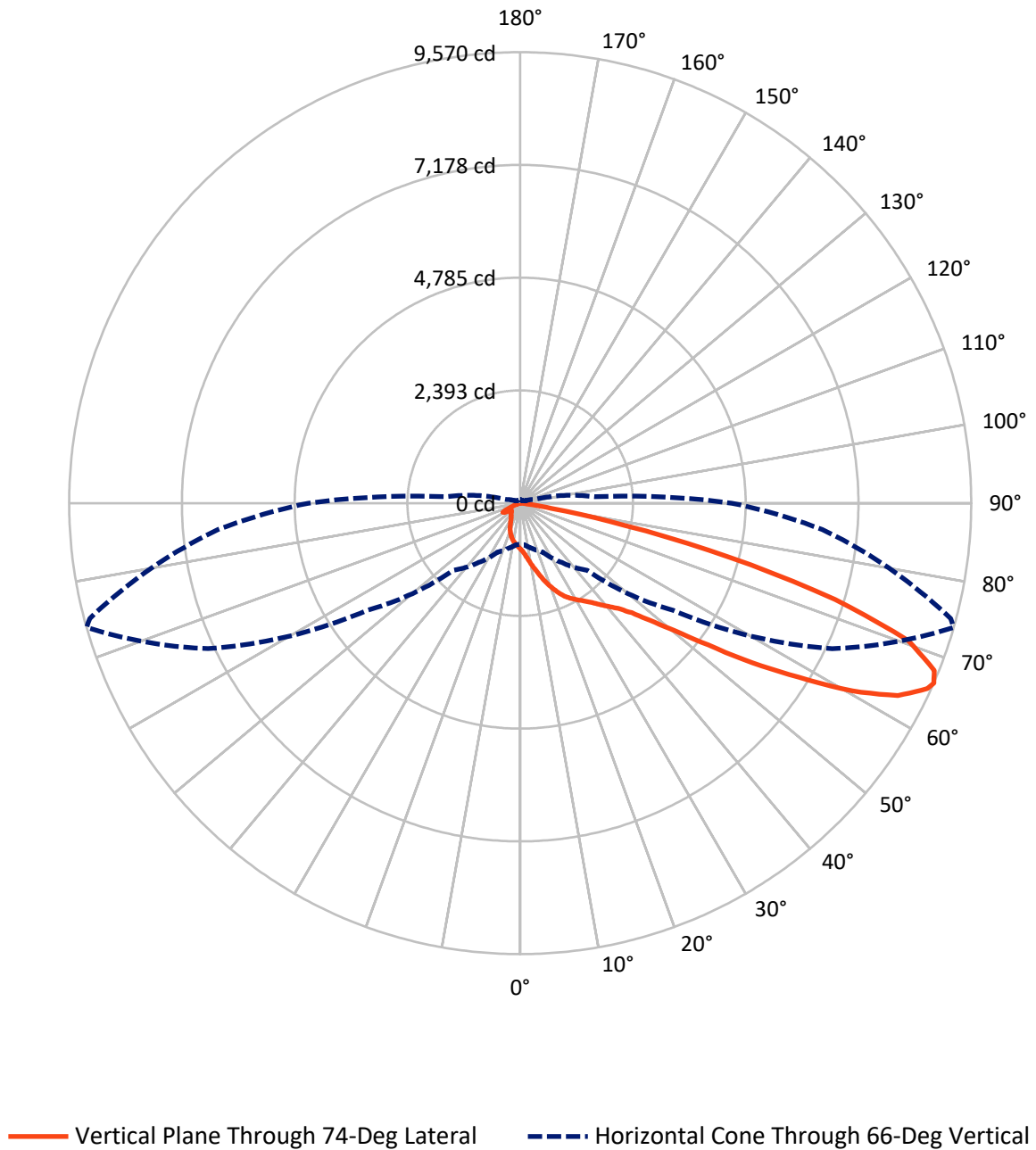


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

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	874.4	0.0	874.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8045.6	0.0	8045.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	8920.0	0.0	8920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.1
10°-20°	304.7	3.4
20°-30°	581.5	6.5
30°-40°	1019.2	11.4
40°-50°	1747.6	19.6
50°-60°	2272.9	25.5
60°-70°	2057.5	23.1
70°-80°	793.9	8.9
80°-90°	47.8	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°	8920.0	100.0
0°-180°	8920.0	100.0

Coefficient of Utilization



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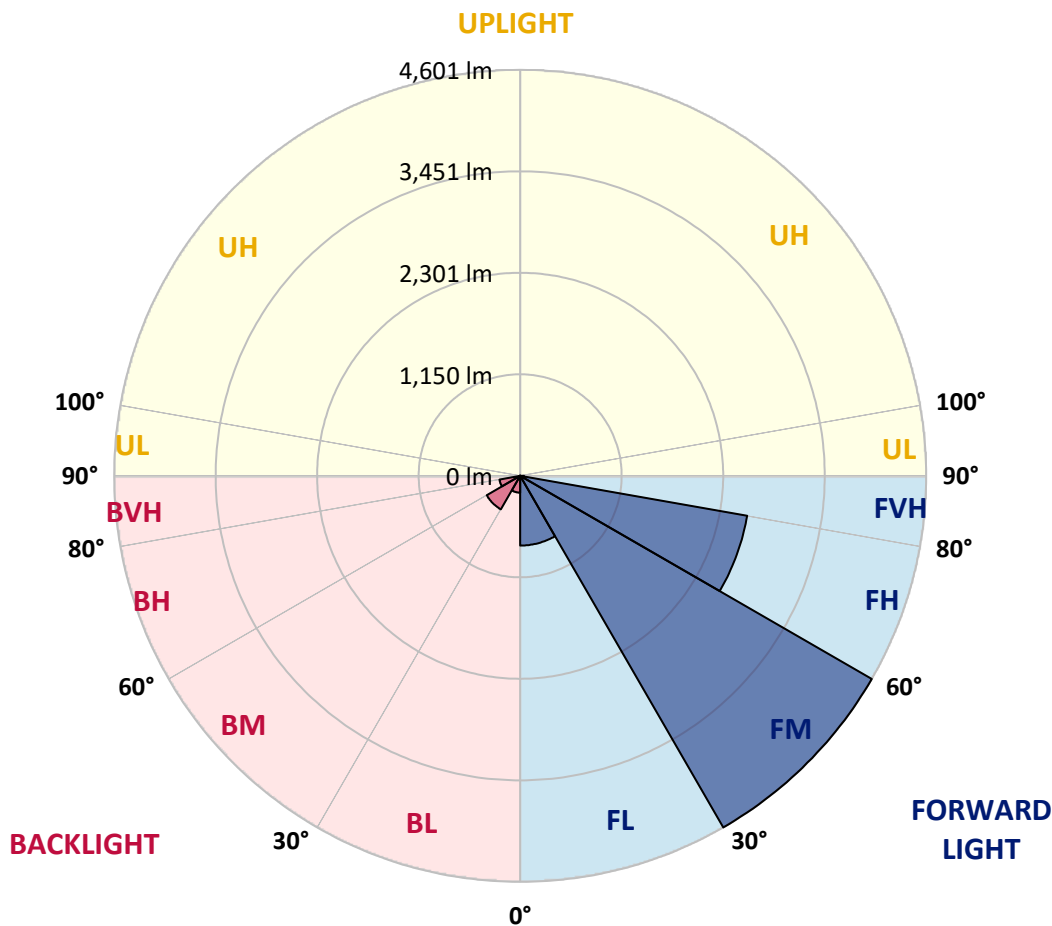
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.4	8.9			
FM	(30°-60°)	4601.4	51.6			
FH	(60°-80°)	2612.4	29.3			G2/5000
FVH	(80°-90°)	41.4	0.5			G1/100
BL	(0°-30°)	190.7	2.1	B1/500		
BM	(30°-60°)	438.2	4.9	B1/1000		
BH	(60°-80°)	239.1	2.7	B1/500		G1/500
BVH	(80°-90°)	6.4	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°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	1169.1	1159.5	1141.8	1140.2	1125.8	1108.2	1077.8	1045.8	1023.3	1020.1	992.9
5°	1399.7	1394.9	1377.3	1366.1	1338.8	1297.2	1226.7	1156.3	1097.0	1090.6	1029.7
7.5°	1460.5	1463.7	1466.9	1478.2	1468.6	1449.3	1396.5	1297.2	1204.3	1189.9	1084.2
10°	1470.2	1466.9	1466.9	1481.4	1508.6	1535.8	1529.4	1444.5	1324.4	1306.8	1159.5
12.5°	1574.2	1579.1	1567.8	1561.4	1556.6	1571.0	1619.1	1582.3	1450.9	1436.5	1250.7
15°	1708.8	1707.2	1691.2	1691.2	1676.7	1652.7	1683.1	1710.4	1603.1	1585.5	1354.8
17.5°	1806.5	1812.9	1811.3	1820.9	1816.1	1784.0	1768.0	1824.1	1760.0	1737.6	1473.4
20°	1884.9	1902.5	1909.0	1939.4	1953.8	1931.4	1889.7	1925.0	1910.6	1889.7	1593.5
22.5°	1968.2	1982.6	1993.8	2046.7	2086.7	2081.9	2029.1	2021.1	2056.3	2037.1	1712.0
25°	2051.5	2057.9	2091.5	2155.6	2219.6	2235.7	2181.2	2118.7	2187.6	2170.0	1817.7
27.5°	2142.8	2146.0	2186.0	2264.5	2354.2	2387.8	2344.6	2229.2	2288.5	2288.5	1913.8
30°	2309.3	2341.4	2357.4	2427.8	2506.3	2552.7	2501.5	2346.2	2378.2	2392.6	2014.7
32.5°	2668.1	2672.9	2668.1	2698.5	2714.5	2741.7	2682.5	2477.5	2469.5	2485.5	2113.9
35°	3215.8	3196.5	3145.3	3100.5	3007.6	2956.3	2879.4	2645.6	2581.6	2604.0	2211.6
37.5°	3880.4	3853.1	3736.2	3598.5	3399.9	3194.9	3098.8	2850.6	2724.1	2752.9	2317.3
40°	4514.6	4496.9	4357.6	4187.8	3848.3	3497.6	3294.2	3023.6	2882.6	2893.9	2424.6
42.5°	5036.6	5033.4	4916.5	4738.8	4303.2	3824.3	3524.8	3193.3	3049.2	3066.8	2536.7
45°	5432.2	5401.8	5315.3	5187.2	4743.6	4163.8	3803.5	3451.2	3316.6	3337.5	2704.9
47.5°	5432.2	5437.0	5493.0	5480.2	5051.0	4482.5	4107.8	3776.3	3712.2	3731.4	2981.9
50°	4990.2	5035.0	5284.9	5494.7	5211.2	4730.7	4436.1	4183.0	4248.7	4277.5	3465.6
52.5°	4115.8	4191.1	4625.1	5103.9	5092.7	4855.7	4775.6	4700.3	4995.0	5046.2	4179.8
55°	3127.7	3177.3	3742.6	4372.0	4577.0	4753.2	5071.9	5356.9	5983.1	5971.9	4905.3
57.5°	2336.5	2383.0	2869.8	3568.1	3838.7	4309.6	5224.0	6108.0	6963.2	7006.4	5585.9
60°	1718.4	1753.6	2168.4	2741.7	3132.5	3630.5	5163.1	6847.9	8092.2	8042.6	6186.5
62.5°	1271.6	1290.8	1590.3	1963.4	2482.3	2957.9	4780.4	7354.0	8993.9	8893.0	6521.2
65°	983.3	989.7	1145.1	1343.6	1804.9	2299.7	4210.3	7430.8	9491.9	9384.6	6514.8
66°	876.0	880.8	994.5	1148.3	1535.8	2013.1	3960.4	7307.5	9570.4	9456.7	6434.7
67.5°	735.1	731.9	799.1	900.0	1153.1	1553.4	3516.8	6947.2	9477.5	9419.9	6178.5
70°	544.5	546.1	579.7	603.8	674.2	860.0	2539.9	6026.3	8734.4	8731.2	5475.4
72.5°	403.6	408.4	434.0	438.8	421.2	466.0	1463.7	4793.2	6987.2	6988.8	4093.4
75°	302.7	310.7	318.7	321.9	305.9	294.7	661.4	3225.4	4596.2	4562.6	2317.3
77.5°	230.6	233.8	240.2	235.4	232.2	203.4	275.5	1572.6	2269.3	2067.5	751.1
80°	168.2	168.2	174.6	168.2	166.6	145.7	150.5	504.5	666.2	554.1	161.7
82.5°	105.7	104.1	108.9	107.3	104.1	92.9	88.1	140.9	153.7	137.7	78.5
85°	59.3	57.7	56.1	54.5	49.6	41.6	48.0	52.8	70.5	72.1	56.1
87.5°	20.8	20.8	19.2	17.6	14.4	14.4	17.6	17.6	25.6	25.6	28.8
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°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	980.1	962.5	936.9	903.2	879.2	855.2	829.6	815.1	794.3	789.5	795.9
5°	997.7	965.7	901.6	831.2	770.3	715.9	664.6	634.2	603.8	592.5	597.3
7.5°	1034.6	980.1	871.2	757.5	656.6	574.9	514.1	478.8	451.6	440.4	443.6
10°	1089.0	1005.7	842.4	674.2	544.5	458.0	406.8	384.4	368.3	361.9	363.5
12.5°	1154.7	1042.6	805.5	590.9	448.4	373.1	349.1	344.3	341.1	337.9	339.5
15°	1228.3	1074.6	762.3	509.3	373.1	331.5	323.5	321.9	320.3	320.3	320.3
17.5°	1305.2	1103.4	714.3	432.4	325.1	305.9	301.1	301.1	301.1	302.7	302.7
20°	1377.3	1125.8	658.2	363.5	297.9	281.9	278.7	278.7	280.3	281.9	281.9
22.5°	1447.7	1135.4	592.5	315.5	275.5	261.0	256.2	256.2	256.2	257.8	257.8
25°	1508.6	1135.4	526.9	285.1	256.2	241.8	235.4	233.8	235.4	235.4	235.4
27.5°	1559.8	1130.6	462.8	264.2	237.0	222.6	216.2	214.6	217.8	219.4	219.4
30°	1614.3	1124.2	411.6	245.0	221.0	206.6	200.2	200.2	205.0	211.4	211.4
32.5°	1667.1	1129.0	371.5	229.0	205.0	193.8	187.4	189.0	198.6	208.2	208.2
35°	1723.2	1138.6	347.5	217.8	193.8	182.6	177.8	182.6	192.2	201.8	201.8
37.5°	1779.2	1149.9	333.1	208.2	184.2	173.0	169.8	176.2	187.4	197.0	198.6
40°	1838.5	1159.5	317.1	198.6	177.8	165.0	163.4	169.8	184.2	193.8	195.4
42.5°	1912.2	1178.7	297.9	190.6	171.4	155.3	156.9	161.7	176.2	190.6	192.2
45°	2056.3	1239.5	278.7	182.6	163.4	150.5	147.3	150.5	166.6	182.6	185.8
47.5°	2326.9	1377.3	257.8	174.6	155.3	147.3	134.5	137.7	152.1	169.8	171.4
50°	2845.8	1670.3	246.6	166.6	148.9	136.1	121.7	121.7	132.9	148.9	148.9
52.5°	3654.6	2195.6	253.0	160.1	140.9	124.9	110.5	108.9	115.3	126.5	126.5
55°	4527.4	2772.1	277.1	153.7	131.3	118.5	102.5	94.5	99.3	105.7	105.7
57.5°	5219.2	3062.0	342.7	150.5	120.1	113.7	92.9	81.7	86.5	92.9	92.9
60°	5523.5	2892.3	416.4	153.7	112.1	105.7	83.3	72.1	80.1	86.5	88.1
62.5°	5276.9	2381.4	446.8	145.7	100.9	94.5	81.7	67.3	76.9	81.7	83.3
65°	4743.6	1809.7	349.1	126.5	92.9	81.7	73.7	64.1	72.1	76.9	76.9
66°	4490.5	1577.5	297.9	116.9	89.7	76.9	70.5	64.1	70.5	73.7	75.3
67.5°	4098.2	1244.3	221.0	102.5	83.3	70.5	65.7	60.9	67.3	70.5	70.5
70°	3204.5	741.5	132.9	80.1	72.1	62.5	59.3	56.1	60.9	62.5	62.5
72.5°	2006.6	352.3	84.9	59.3	60.9	59.3	49.6	52.8	54.5	56.1	56.1
75°	972.1	139.3	57.7	43.2	49.6	56.1	40.0	46.4	48.0	51.2	49.6
77.5°	270.6	67.3	36.8	32.0	43.2	43.2	30.4	36.8	43.2	54.5	49.6
80°	78.5	43.2	24.0	24.0	30.4	30.4	20.8	25.6	28.8	32.0	33.6
82.5°	54.5	28.8	16.0	17.6	17.6	19.2	12.8	12.8	16.0	16.0	17.6
85°	43.2	12.8	9.6	11.2	8.0	9.6	6.4	6.4	8.0	6.4	6.4
87.5°	17.6	6.4	6.4	6.4	4.8	4.8	3.2	1.6	1.6	1.6	1.6
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)