

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: P1211672

Luminaire Tested: **ARCH4-80-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211672
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: ARCH4-80-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA 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: 9677 lumens
Efficiency: N/A
Efficacy: 116.0 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): 83.4
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

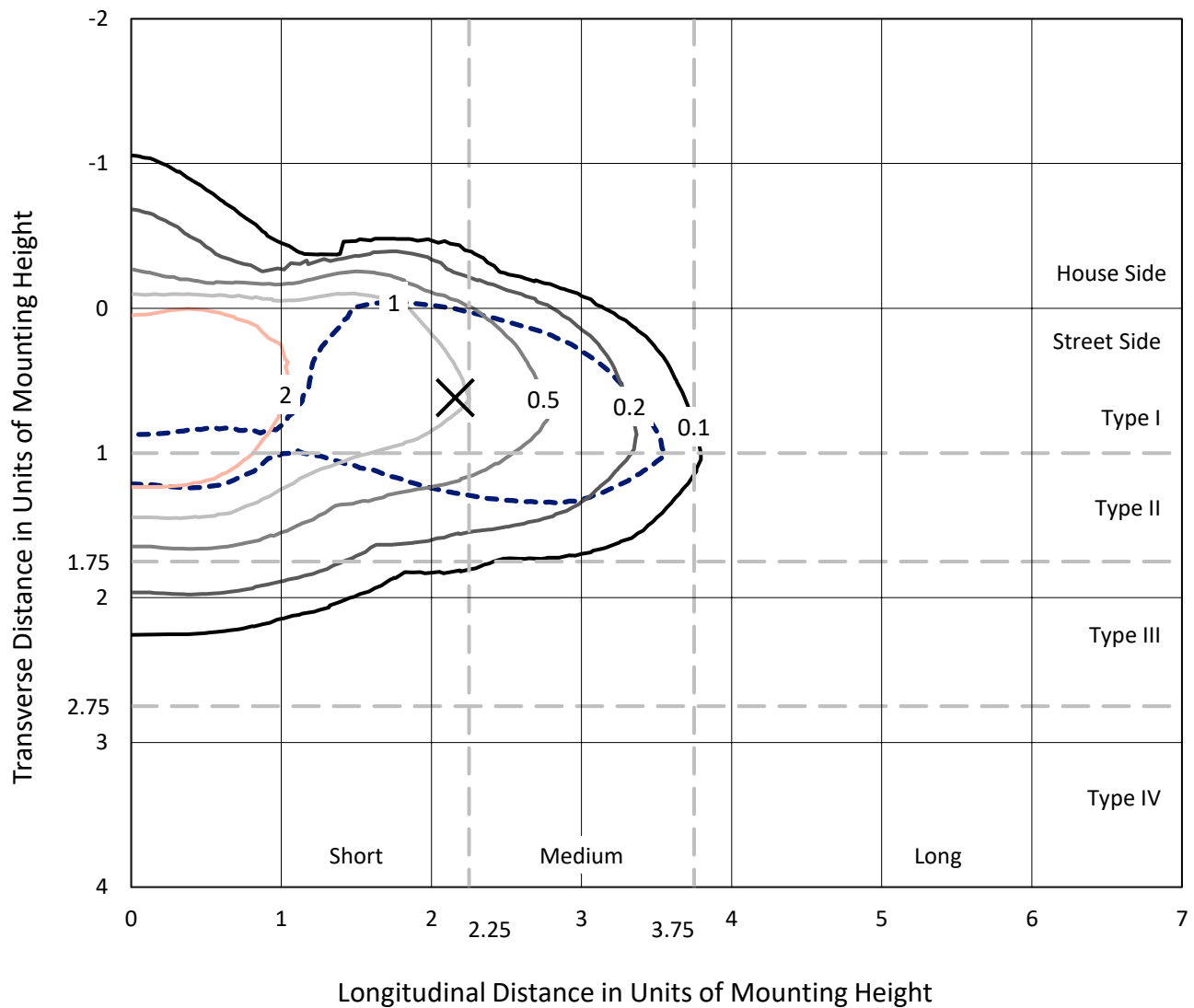


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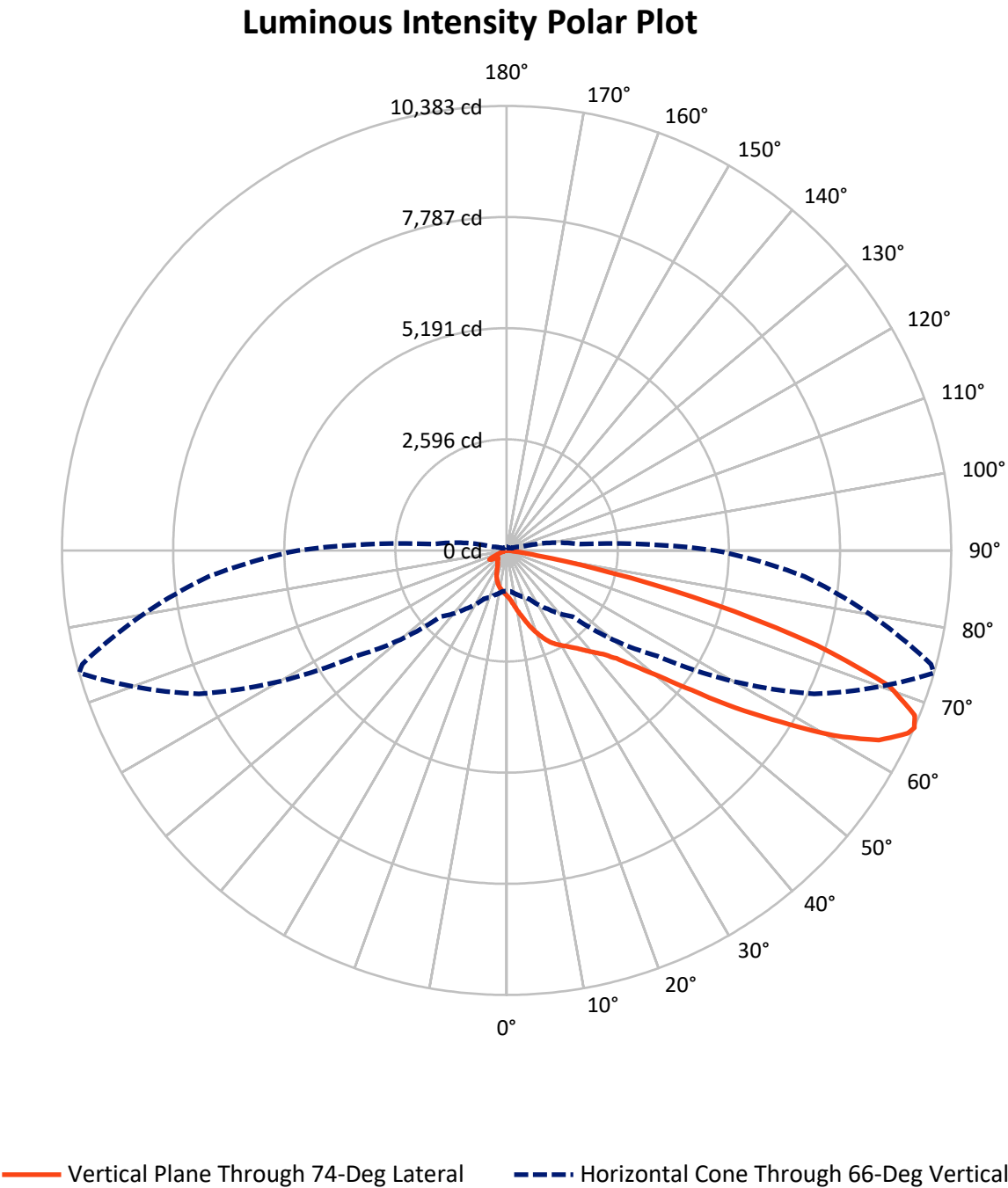
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.7	0.0	948.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8728.3	0.0	8728.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	9677.0	0.0	9677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.1
10°-20°	330.5	3.4
20°-30°	630.8	6.5
30°-40°	1105.7	11.4
40°-50°	1895.9	19.6
50°-60°	2465.8	25.5
60°-70°	2232.1	23.1
70°-80°	861.3	8.9
80°-90°	51.8	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°	9677.0	100.0
0°-180°	9677.0	100.0

Coefficient of Utilization



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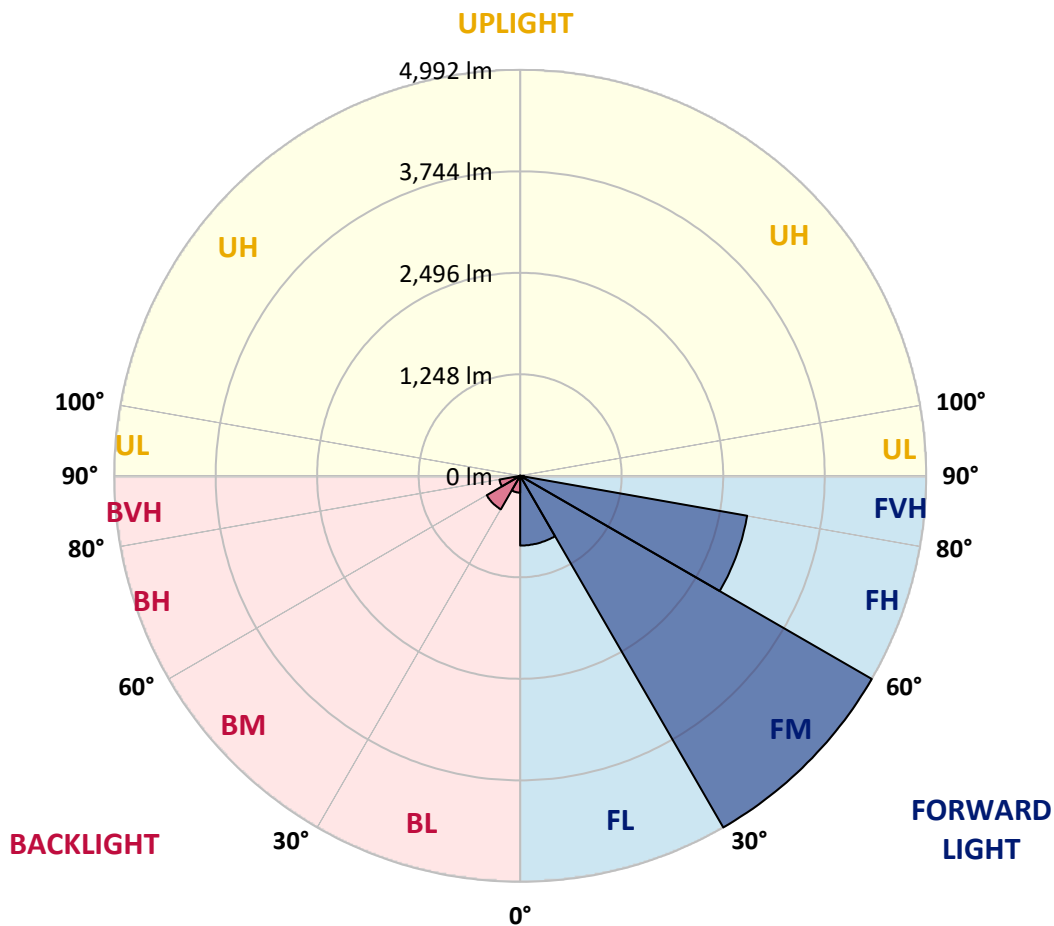
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.5	8.9			
FM	(30°-60°)	4991.9	51.6			
FH	(60°-80°)	2834.1	29.3			G2/5000
FVH	(80°-90°)	44.9	0.5			G1/100
BL	(0°-30°)	206.9	2.1	B1/500		
BM	(30°-60°)	475.4	4.9	B1/1000		
BH	(60°-80°)	259.3	2.7	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1268.3	1257.9	1238.8	1237.0	1221.4	1202.3	1169.3	1134.5	1110.2	1106.7	1077.2
5°	1518.5	1513.3	1494.1	1482.0	1452.5	1407.3	1330.8	1254.4	1190.1	1183.2	1117.1
7.5°	1584.5	1588.0	1591.4	1603.6	1593.2	1572.3	1515.0	1407.3	1306.5	1290.9	1176.2
10°	1594.9	1591.4	1591.4	1607.1	1636.6	1666.1	1659.2	1567.1	1436.8	1417.7	1257.9
12.5°	1707.8	1713.1	1700.9	1693.9	1688.7	1704.4	1756.5	1716.5	1574.1	1558.4	1356.9
15°	1853.8	1852.0	1834.7	1834.7	1819.0	1793.0	1826.0	1855.5	1739.1	1720.0	1469.8
17.5°	1959.8	1966.7	1965.0	1975.4	1970.2	1935.4	1918.1	1978.9	1909.4	1885.1	1598.4
20°	2044.9	2064.0	2071.0	2104.0	2119.6	2095.3	2050.1	2088.3	2072.7	2050.1	1728.7
22.5°	2135.2	2150.9	2163.0	2220.4	2263.8	2258.6	2201.3	2192.6	2230.8	2209.9	1857.3
25°	2225.6	2232.5	2269.0	2338.5	2408.0	2425.4	2366.3	2298.6	2373.3	2354.2	1971.9
27.5°	2324.6	2328.1	2371.5	2456.7	2554.0	2590.4	2543.5	2418.4	2482.7	2482.7	2076.2
30°	2505.3	2540.1	2557.4	2633.9	2719.0	2769.4	2713.8	2545.3	2580.0	2595.6	2185.6
32.5°	2894.5	2899.7	2894.5	2927.5	2944.9	2974.4	2910.1	2687.7	2679.0	2696.4	2293.3
35°	3488.7	3467.8	3412.2	3363.6	3262.8	3207.2	3123.8	2870.2	2800.7	2825.0	2399.3
37.5°	4209.7	4180.1	4053.3	3903.9	3688.5	3466.1	3361.8	3092.5	2955.3	2986.6	2514.0
40°	4897.7	4878.6	4727.4	4543.3	4174.9	3794.4	3573.8	3280.2	3127.3	3139.4	2630.4
42.5°	5464.1	5460.6	5333.8	5140.9	4668.3	4148.9	3824.0	3464.3	3308.0	3327.1	2752.0
45°	5893.2	5860.2	5766.4	5627.4	5146.1	4517.2	4126.3	3744.1	3598.1	3620.7	2934.4
47.5°	5893.2	5898.4	5959.2	5945.3	5479.7	4862.9	4456.4	4096.7	4027.3	4048.1	3235.0
50°	5413.7	5462.3	5733.4	5961.0	5653.4	5132.2	4812.5	4538.0	4609.3	4640.5	3759.7
52.5°	4465.1	4546.7	5017.6	5537.0	5524.9	5267.7	5180.9	5099.2	5418.9	5474.5	4534.6
55°	3393.1	3447.0	4060.3	4743.1	4965.4	5156.5	5502.3	5811.5	6490.9	6478.7	5321.6
57.5°	2534.8	2585.2	3113.4	3870.9	4164.5	4675.3	5667.3	6626.4	7554.1	7601.0	6060.0
60°	1864.2	1902.4	2352.4	2974.4	3398.3	3938.6	5601.3	7429.0	8779.0	8725.1	6711.5
62.5°	1379.5	1400.3	1725.2	2130.0	2692.9	3208.9	5186.1	7978.1	9757.1	9647.7	7074.6
65°	1066.8	1073.7	1242.2	1457.7	1958.0	2494.9	4567.6	8061.5	10297.5	10181.1	7067.7
66°	950.3	955.6	1078.9	1245.7	1666.1	2183.9	4296.5	7927.7	10382.6	10259.2	6980.8
67.5°	797.5	794.0	867.0	976.4	1250.9	1685.3	3815.3	7536.8	10281.8	10219.3	6702.8
70°	590.7	592.4	628.9	655.0	731.4	933.0	2755.5	6537.8	9475.7	9472.2	5940.1
72.5°	437.8	443.0	470.8	476.0	456.9	505.6	1588.0	5200.0	7580.2	7581.9	4440.7
75°	328.4	337.1	345.7	349.2	331.8	319.7	717.5	3499.1	4986.3	4949.8	2514.0
77.5°	250.2	253.7	260.6	255.4	251.9	220.6	298.8	1706.1	2461.9	2243.0	814.8
80°	182.4	182.4	189.4	182.4	180.7	158.1	163.3	547.3	722.8	601.1	175.5
82.5°	114.7	112.9	118.1	116.4	112.9	100.8	95.6	152.9	166.8	149.4	85.1
85°	64.3	62.5	60.8	59.1	53.9	45.2	52.1	57.3	76.4	78.2	60.8
87.5°	22.6	22.6	20.8	19.1	15.6	15.6	19.1	19.1	27.8	27.8	31.3
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°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1063.3	1044.2	1016.4	979.9	953.8	927.8	900.0	884.3	861.7	856.5	863.5
5°	1082.4	1047.6	978.1	901.7	835.7	776.6	721.0	688.0	655.0	642.8	648.0
7.5°	1122.3	1063.3	945.1	821.8	712.3	623.7	557.7	519.5	489.9	477.8	481.3
10°	1181.4	1091.1	913.9	731.4	590.7	496.9	441.3	417.0	399.6	392.6	394.4
12.5°	1252.7	1131.0	873.9	641.1	486.5	404.8	378.7	373.5	370.1	366.6	368.3
15°	1332.6	1165.8	827.0	552.5	404.8	359.6	351.0	349.2	347.5	347.5	347.5
17.5°	1416.0	1197.1	774.9	469.1	352.7	331.8	326.6	326.6	326.6	328.4	328.4
20°	1494.1	1221.4	714.1	394.4	323.2	305.8	302.3	302.3	304.0	305.8	305.8
22.5°	1570.6	1231.8	642.8	342.3	298.8	283.2	278.0	278.0	278.0	279.7	279.7
25°	1636.6	1231.8	571.6	309.3	278.0	262.3	255.4	253.7	255.4	255.4	255.4
27.5°	1692.2	1226.6	502.1	286.7	257.1	241.5	234.5	232.8	236.3	238.0	238.0
30°	1751.3	1219.6	446.5	265.8	239.8	224.1	217.2	217.2	222.4	229.3	229.3
32.5°	1808.6	1224.9	403.1	248.4	222.4	210.2	203.3	205.0	215.4	225.9	225.9
35°	1869.4	1235.3	377.0	236.3	210.2	198.1	192.8	198.1	208.5	218.9	218.9
37.5°	1930.2	1247.4	361.4	225.9	199.8	187.6	184.2	191.1	203.3	213.7	215.4
40°	1994.5	1257.9	344.0	215.4	192.8	179.0	177.2	184.2	199.8	210.2	212.0
42.5°	2074.4	1278.7	323.2	206.7	185.9	168.5	170.3	175.5	191.1	206.7	208.5
45°	2230.8	1344.7	302.3	198.1	177.2	163.3	159.8	163.3	180.7	198.1	201.5
47.5°	2524.4	1494.1	279.7	189.4	168.5	159.8	145.9	149.4	165.1	184.2	185.9
50°	3087.3	1812.1	267.6	180.7	161.6	147.7	132.0	132.0	144.2	161.6	161.6
52.5°	3964.7	2382.0	274.5	173.7	152.9	135.5	119.9	118.1	125.1	137.3	137.3
55°	4911.6	3007.4	300.6	166.8	142.5	128.6	111.2	102.5	107.7	114.7	114.7
57.5°	5662.1	3321.9	371.8	163.3	130.3	123.4	100.8	88.6	93.8	100.8	100.8
60°	5992.2	3137.7	451.7	166.8	121.6	114.7	90.3	78.2	86.9	93.8	95.6
62.5°	5724.7	2583.5	484.7	158.1	109.5	102.5	88.6	73.0	83.4	88.6	90.3
65°	5146.1	1963.2	378.7	137.3	100.8	88.6	79.9	69.5	78.2	83.4	83.4
66°	4871.6	1711.3	323.2	126.8	97.3	83.4	76.4	69.5	76.4	79.9	81.7
67.5°	4446.0	1349.9	239.8	111.2	90.3	76.4	71.2	66.0	73.0	76.4	76.4
70°	3476.5	804.4	144.2	86.9	78.2	67.8	64.3	60.8	66.0	67.8	67.8
72.5°	2176.9	382.2	92.1	64.3	66.0	64.3	53.9	57.3	59.1	60.8	60.8
75°	1054.6	151.2	62.5	46.9	53.9	60.8	43.4	50.4	52.1	55.6	53.9
77.5°	293.6	73.0	40.0	34.7	46.9	46.9	33.0	40.0	46.9	59.1	53.9
80°	85.1	46.9	26.1	26.1	33.0	33.0	22.6	27.8	31.3	34.7	36.5
82.5°	59.1	31.3	17.4	19.1	19.1	20.8	13.9	13.9	17.4	17.4	19.1
85°	46.9	13.9	10.4	12.2	8.7	10.4	6.9	6.9	8.7	6.9	6.9
87.5°	19.1	6.9	6.9	6.9	5.2	5.2	3.5	1.7	1.7	1.7	1.7
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)