

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: P1210920

Luminaire Tested: **ARCH4-110-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210920
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: ARCH4-110-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA 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: 13920 lumens
Efficiency: N/A
Efficacy: 123.6 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): 112.6
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



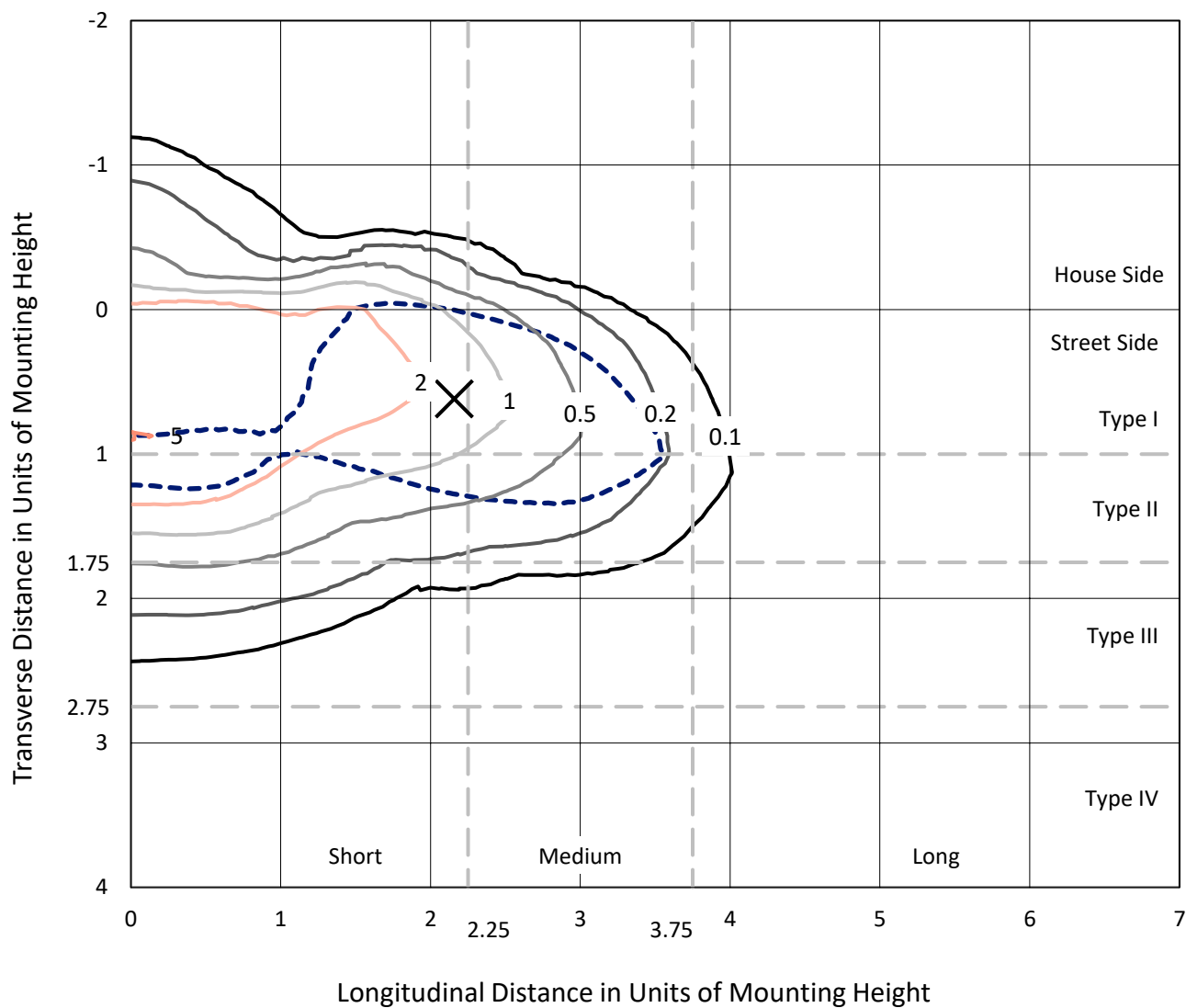
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Iso-Footcandle Lines of Horizontal Illumination

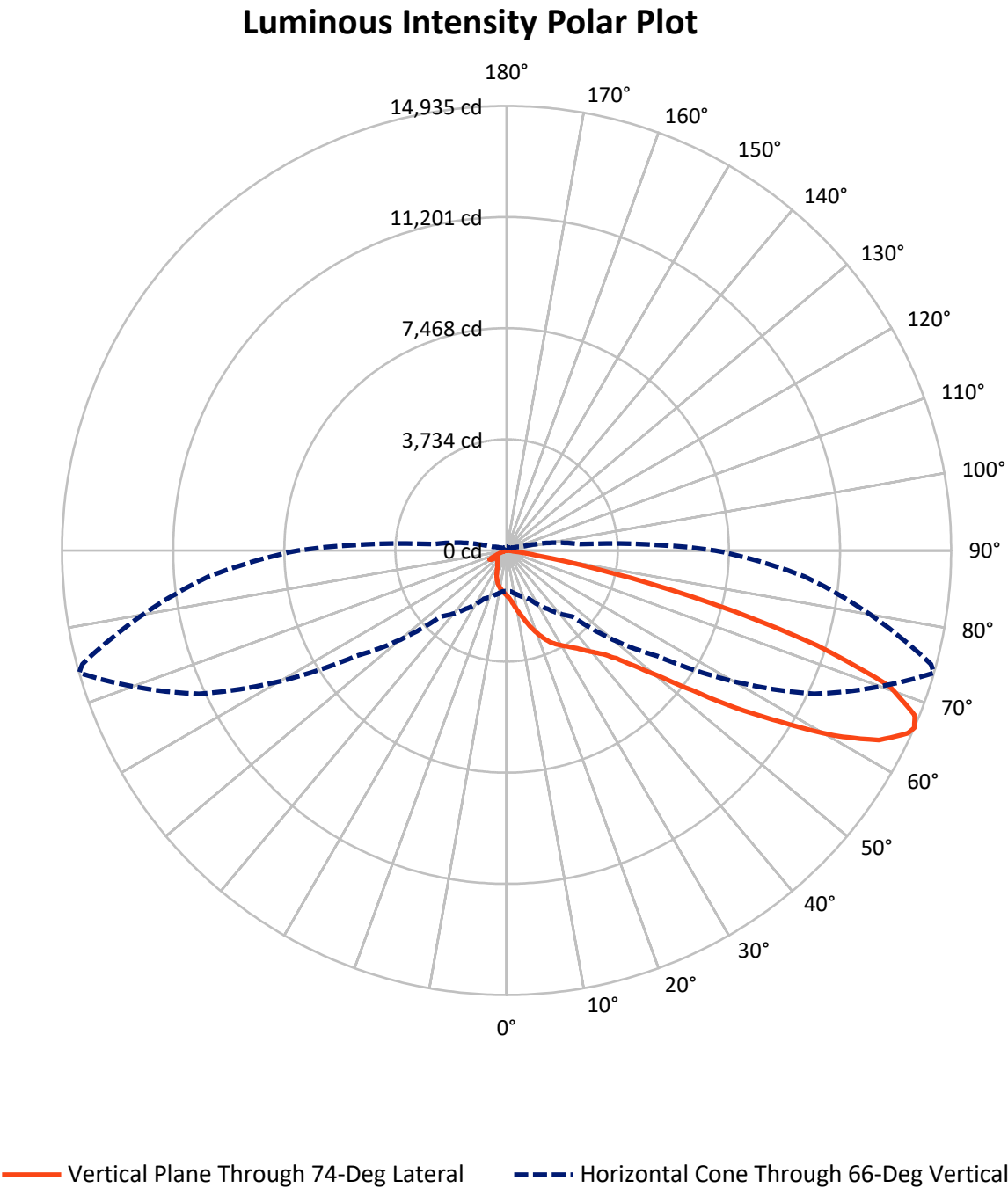
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.6	0.0	1364.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12555.4	0.0	12555.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	13920.0	0.0	13920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.1
10°-20°	475.5	3.4
20°-30°	907.4	6.5
30°-40°	1590.4	11.4
40°-50°	2727.2	19.6
50°-60°	3546.9	25.5
60°-70°	3210.8	23.1
70°-80°	1238.9	8.9
80°-90°	74.6	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°	13920.0	100.0
0°-180°	13920.0	100.0

Coefficient of Utilization



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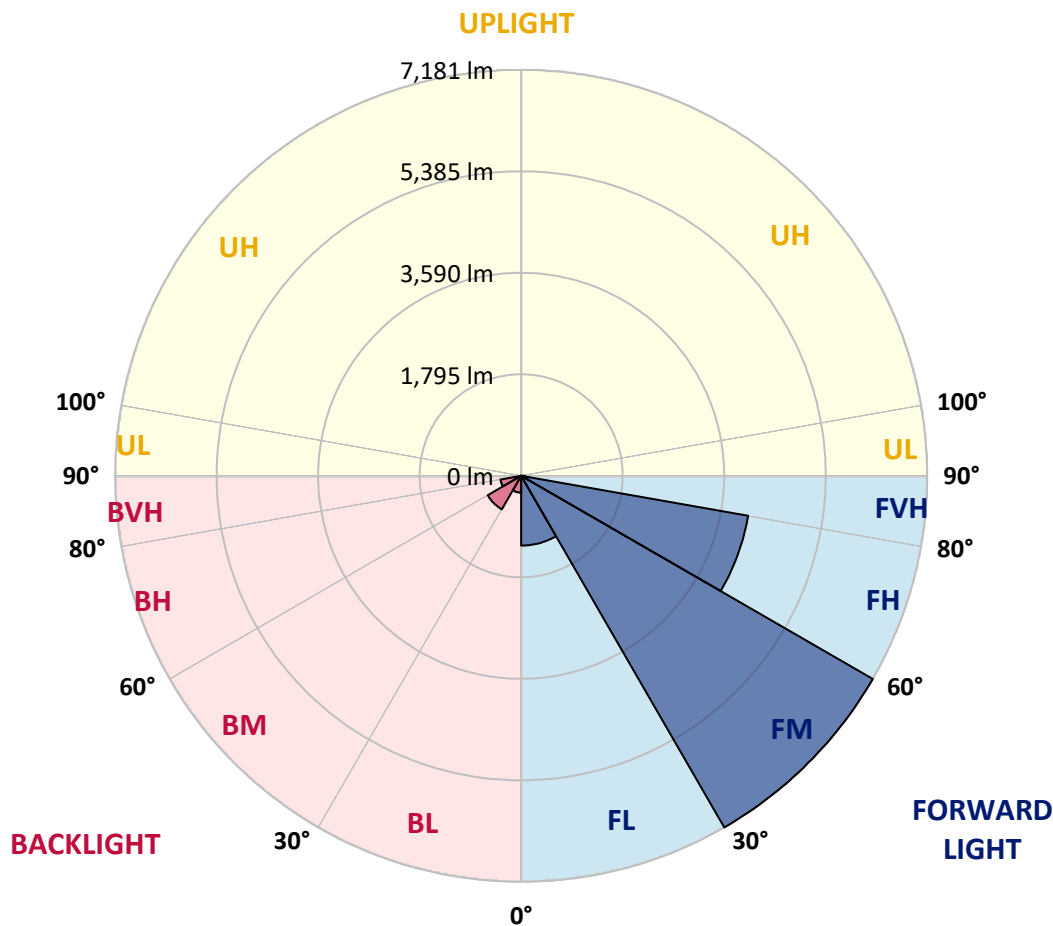
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1233.5	8.9			
FM	(30°-60°)	7180.6	51.6			
FH	(60°-80°)	4076.7	29.3			G2/5000
FVH	(80°-90°)	64.6	0.5			G1/100
BL	(0°-30°)	297.7	2.1	B1/500		
BM	(30°-60°)	683.9	4.9	B1/1000		
BH	(60°-80°)	373.1	2.7	B1/500		G1/500
BVH	(80°-90°)	10.0	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°	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5
2.5°	1824.4	1809.4	1781.9	1779.4	1756.9	1729.4	1681.9	1632.0	1597.0	1592.0	1549.5
5°	2184.3	2176.8	2149.3	2131.8	2089.3	2024.3	1914.4	1804.4	1711.9	1701.9	1607.0
7.5°	2279.2	2284.2	2289.2	2306.7	2291.7	2261.7	2179.3	2024.3	1879.4	1856.9	1691.9
10°	2294.2	2289.2	2289.2	2311.7	2354.2	2396.7	2386.7	2254.2	2066.8	2039.3	1809.4
12.5°	2456.7	2464.2	2446.7	2436.7	2429.2	2451.7	2526.6	2469.2	2264.2	2241.7	1951.8
15°	2666.6	2664.1	2639.1	2639.1	2616.6	2579.1	2626.6	2669.1	2501.7	2474.2	2114.3
17.5°	2819.1	2829.0	2826.5	2841.5	2834.0	2784.1	2759.1	2846.5	2746.6	2711.6	2299.2
20°	2941.5	2969.0	2979.0	3026.5	3049.0	3014.0	2949.0	3004.0	2981.5	2949.0	2486.7
22.5°	3071.5	3094.0	3111.5	3193.9	3256.4	3248.9	3166.4	3153.9	3208.9	3178.9	2671.6
25°	3201.4	3211.4	3263.9	3363.9	3463.8	3488.8	3403.9	3306.4	3413.9	3386.4	2836.5
27.5°	3343.9	3348.9	3411.4	3533.8	3673.8	3726.2	3658.8	3478.8	3571.3	3571.3	2986.5
30°	3603.8	3653.8	3678.8	3788.7	3911.2	3983.7	3903.7	3661.3	3711.3	3733.7	3143.9
32.5°	4163.6	4171.1	4163.6	4211.1	4236.1	4278.6	4186.1	3866.2	3853.7	3878.7	3298.9
35°	5018.3	4988.3	4908.3	4838.4	4693.4	4613.4	4493.5	4128.6	4028.6	4063.6	3451.3
37.5°	6055.5	6013.0	5830.5	5615.6	5305.7	4985.8	4835.9	4448.5	4251.1	4296.1	3616.3
40°	7045.1	7017.6	6800.2	6535.3	6005.5	5458.2	5140.8	4718.4	4498.5	4516.0	3783.7
42.5°	7859.9	7854.9	7672.4	7395.0	6715.2	5968.0	5500.6	4983.3	4758.4	4785.9	3958.7
45°	8477.1	8429.7	8294.7	8094.8	7402.5	6497.8	5935.5	5385.7	5175.8	5208.2	4221.1
47.5°	8477.1	8484.6	8572.1	8552.1	7882.3	6995.1	6410.3	5893.0	5793.0	5823.0	4653.4
50°	7787.4	7857.4	8247.2	8574.6	8132.3	7382.5	6922.7	6527.8	6630.3	6675.3	5408.2
52.5°	6422.8	6540.3	7217.6	7964.8	7947.3	7577.4	7452.5	7335.0	7794.9	7874.8	6522.8
55°	4880.9	4958.3	5840.5	6822.7	7142.6	7417.5	7914.8	8359.7	9336.9	9319.4	7654.9
57.5°	3646.3	3718.7	4478.5	5568.1	5990.5	6725.2	8152.3	9531.8	10866.3	10933.8	8717.1
60°	2681.6	2736.6	3383.9	4278.6	4888.4	5665.6	8057.3	10686.4	12628.2	12550.8	9654.2
62.5°	1984.3	2014.3	2481.7	3064.0	3873.7	4615.9	7460.0	11476.1	14035.3	13877.8	10176.6
65°	1534.5	1544.5	1786.9	2096.8	2816.6	3588.8	6570.3	11596.1	14812.5	14645.1	10166.6
66°	1367.0	1374.5	1552.0	1791.9	2396.7	3141.4	6180.4	11403.7	14935.0	14757.5	10041.6
67.5°	1147.1	1142.1	1247.1	1404.5	1799.4	2424.2	5488.2	10841.3	14790.0	14700.0	9641.8
70°	849.7	852.2	904.7	942.2	1052.1	1342.0	3963.7	9404.3	13630.4	13625.4	8544.6
72.5°	629.8	637.3	677.3	684.8	657.3	727.3	2284.2	7480.0	10903.8	10906.3	6387.8
75°	472.3	484.8	497.3	502.3	477.3	459.8	1032.2	5033.3	7172.6	7120.1	3616.3
77.5°	359.9	364.9	374.9	367.4	362.4	317.4	429.9	2454.2	3541.3	3226.4	1172.1
80°	262.4	262.4	272.4	262.4	259.9	227.4	234.9	787.2	1039.6	864.7	252.4
82.5°	164.9	162.4	169.9	167.4	162.4	145.0	137.5	219.9	239.9	214.9	122.5
85°	92.5	90.0	87.5	85.0	77.5	65.0	75.0	82.5	110.0	112.5	87.5
87.5°	32.5	32.5	30.0	27.5	22.5	22.5	27.5	27.5	40.0	40.0	45.0
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°	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5
2.5°	1529.5	1502.0	1462.0	1409.5	1372.0	1334.6	1294.6	1272.1	1239.6	1232.1	1242.1
5°	1557.0	1507.0	1407.0	1297.1	1202.1	1117.1	1037.2	989.7	942.2	924.7	932.2
7.5°	1614.5	1529.5	1359.5	1182.1	1024.7	897.2	802.2	747.2	704.8	687.3	692.3
10°	1699.4	1569.5	1314.6	1052.1	849.7	714.8	634.8	599.8	574.8	564.8	567.3
12.5°	1801.9	1627.0	1257.1	922.2	699.8	582.3	544.8	537.3	532.3	527.3	529.8
15°	1916.9	1676.9	1189.6	794.7	582.3	517.3	504.8	502.3	499.8	499.8	499.8
17.5°	2036.8	1721.9	1114.6	674.8	507.3	477.3	469.8	469.8	469.8	472.3	472.3
20°	2149.3	1756.9	1027.2	567.3	464.8	439.9	434.9	434.9	437.4	439.9	439.9
22.5°	2259.2	1771.9	924.7	492.3	429.9	407.4	399.9	399.9	399.9	402.4	402.4
25°	2354.2	1771.9	822.2	444.9	399.9	377.4	367.4	364.9	367.4	367.4	367.4
27.5°	2434.2	1764.4	722.3	412.4	369.9	347.4	337.4	334.9	339.9	342.4	342.4
30°	2519.2	1754.4	642.3	382.4	344.9	322.4	312.4	312.4	319.9	329.9	329.9
32.5°	2601.6	1761.9	579.8	357.4	319.9	302.4	292.4	294.9	309.9	324.9	324.9
35°	2689.1	1776.9	542.3	339.9	302.4	284.9	277.4	284.9	299.9	314.9	314.9
37.5°	2776.6	1794.4	519.8	324.9	287.4	269.9	264.9	274.9	292.4	307.4	309.9
40°	2869.0	1809.4	494.8	309.9	277.4	257.4	254.9	264.9	287.4	302.4	304.9
42.5°	2984.0	1839.4	464.8	297.4	267.4	242.4	244.9	252.4	274.9	297.4	299.9
45°	3208.9	1934.3	434.9	284.9	254.9	234.9	229.9	234.9	259.9	284.9	289.9
47.5°	3631.3	2149.3	402.4	272.4	242.4	229.9	209.9	214.9	237.4	264.9	267.4
50°	4441.0	2606.6	384.9	259.9	232.4	212.4	189.9	189.9	207.4	232.4	232.4
52.5°	5703.1	3426.3	394.9	249.9	219.9	194.9	172.4	169.9	179.9	197.4	197.4
55°	7065.1	4326.0	432.4	239.9	204.9	184.9	159.9	147.5	154.9	164.9	164.9
57.5°	8144.8	4778.4	534.8	234.9	187.4	177.4	145.0	127.5	135.0	145.0	145.0
60°	8619.6	4513.5	649.8	239.9	174.9	164.9	130.0	112.5	125.0	135.0	137.5
62.5°	8234.7	3716.2	697.3	227.4	157.4	147.5	127.5	105.0	120.0	127.5	130.0
65°	7402.5	2824.0	544.8	197.4	145.0	127.5	115.0	100.0	112.5	120.0	120.0
66°	7007.6	2461.7	464.8	182.4	140.0	120.0	110.0	100.0	110.0	115.0	117.5
67.5°	6395.3	1941.8	344.9	159.9	130.0	110.0	102.5	95.0	105.0	110.0	110.0
70°	5000.8	1157.1	207.4	125.0	112.5	97.5	92.5	87.5	95.0	97.5	97.5
72.5°	3131.4	549.8	132.5	92.5	95.0	92.5	77.5	82.5	85.0	87.5	87.5
75°	1517.0	217.4	90.0	67.5	77.5	87.5	62.5	72.5	75.0	80.0	77.5
77.5°	422.4	105.0	57.5	50.0	67.5	67.5	47.5	57.5	67.5	85.0	77.5
80°	122.5	67.5	37.5	37.5	47.5	47.5	32.5	40.0	45.0	50.0	52.5
82.5°	85.0	45.0	25.0	27.5	27.5	30.0	20.0	20.0	25.0	25.0	27.5
85°	67.5	20.0	15.0	17.5	12.5	15.0	10.0	10.0	12.5	10.0	10.0
87.5°	27.5	10.0	10.0	10.0	7.5	7.5	5.0	2.5	2.5	2.5	2.5
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)