

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: P1211036

Luminaire Tested: **ARCH4-150-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211036
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: ARCH4-150-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA 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: 17144 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

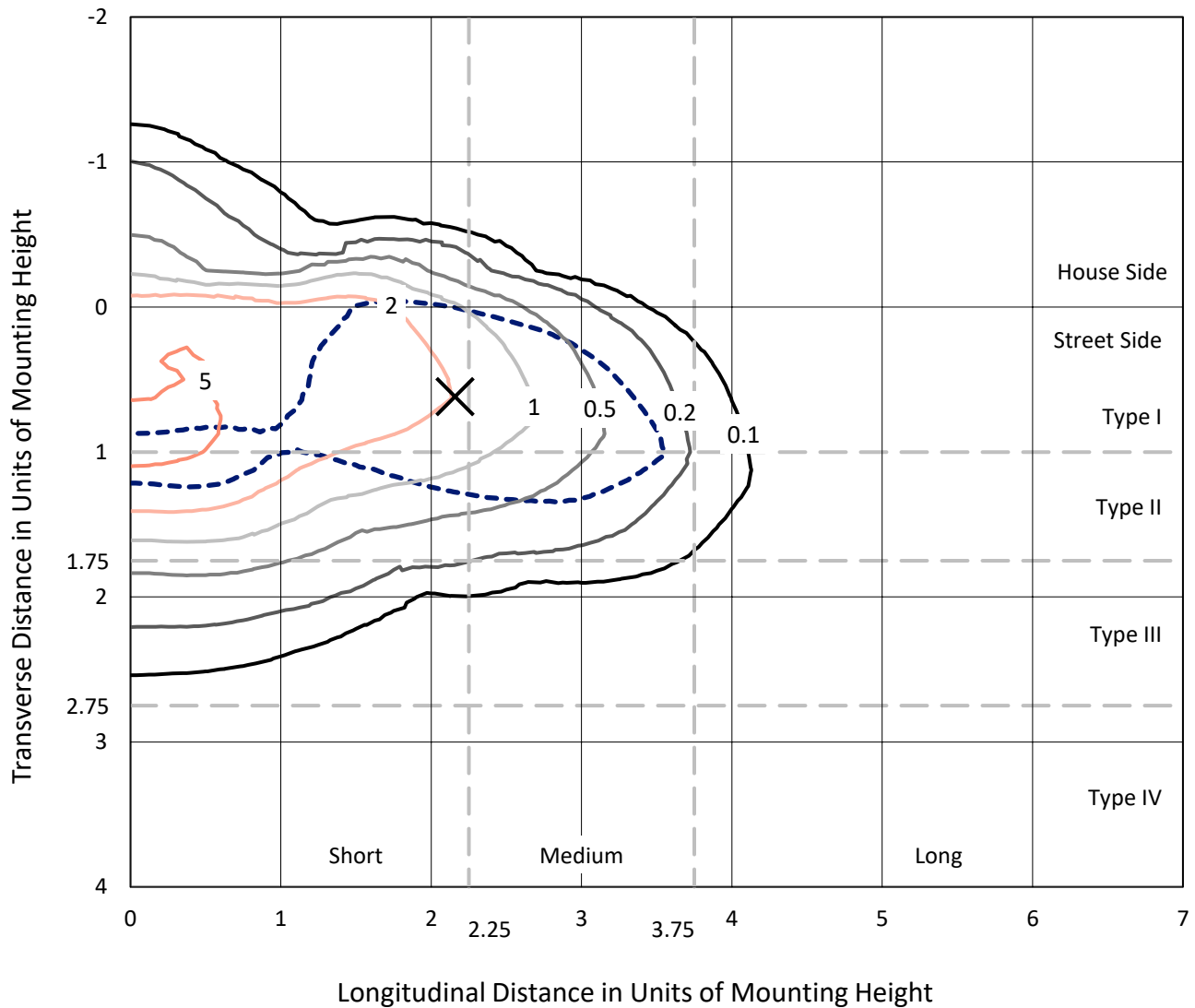
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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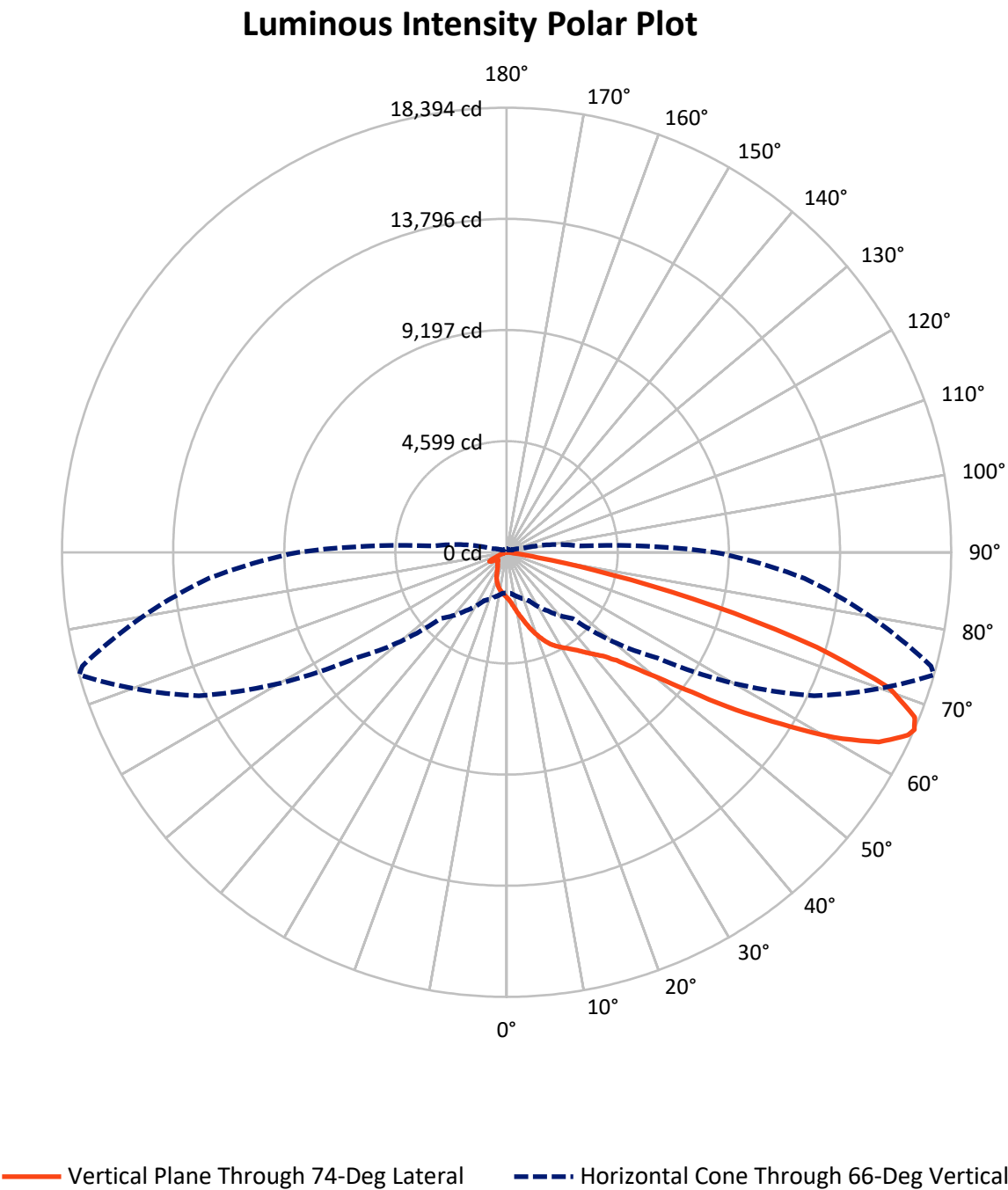
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.7	0.0	1680.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15463.3	0.0	15463.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	17144.0	0.0	17144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.1
10°-20°	585.6	3.4
20°-30°	1117.6	6.5
30°-40°	1958.8	11.4
40°-50°	3358.8	19.6
50°-60°	4368.4	25.5
60°-70°	3954.5	23.1
70°-80°	1525.9	8.9
80°-90°	91.8	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°	17144.0	100.0
0°-180°	17144.0	100.0

Coefficient of Utilization



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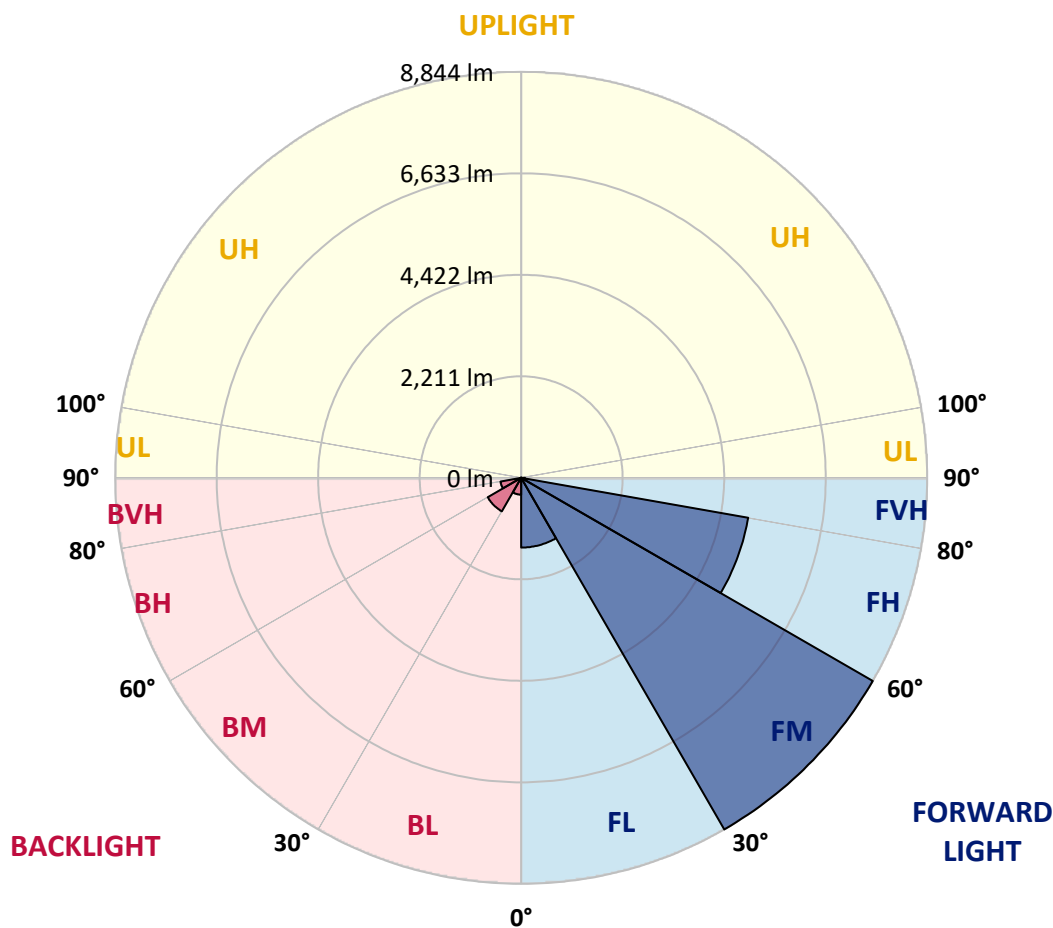
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.2	8.9			
FM	(30°-60°)	8843.7	51.6			
FH	(60°-80°)	5020.9	29.3			G3/7500
FVH	(80°-90°)	79.5	0.5			G1/100
BL	(0°-30°)	366.6	2.1	B1/500		
BM	(30°-60°)	842.3	4.9	B1/1000		
BH	(60°-80°)	459.5	2.7	B1/500		G1/500
BVH	(80°-90°)	12.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	2246.9	2228.5	2194.6	2191.5	2163.8	2130.0	2071.5	2009.9	1966.8	1960.7	1908.4
5°	2690.2	2680.9	2647.1	2625.5	2573.2	2493.2	2357.7	2222.3	2108.4	2096.1	1979.1
7.5°	2807.1	2813.3	2819.4	2841.0	2822.5	2785.6	2684.0	2493.2	2314.6	2286.9	2083.8
10°	2825.6	2819.4	2819.4	2847.1	2899.5	2951.8	2939.5	2776.3	2545.5	2511.6	2228.5
12.5°	3025.7	3034.9	3013.3	3001.0	2991.8	3019.5	3111.8	3041.1	2788.7	2761.0	2403.9
15°	3284.2	3281.1	3250.4	3250.4	3222.7	3176.5	3235.0	3287.3	3081.1	3047.2	2604.0
17.5°	3472.0	3484.3	3481.2	3499.7	3490.4	3428.9	3398.1	3505.8	3382.7	3339.6	2831.7
20°	3622.8	3656.6	3669.0	3727.4	3755.1	3712.1	3632.0	3699.7	3672.0	3632.0	3062.6
22.5°	3782.8	3810.5	3832.1	3933.7	4010.6	4001.4	3899.8	3884.4	3952.1	3915.2	3290.4
25°	3942.9	3955.2	4019.9	4143.0	4266.1	4296.9	4192.2	4072.2	4204.5	4170.7	3493.5
27.5°	4118.3	4124.5	4201.5	4352.3	4524.6	4589.3	4506.2	4284.6	4398.4	4398.4	3678.2
30°	4438.5	4500.0	4530.8	4666.2	4817.0	4906.3	4807.8	4509.3	4570.8	4598.5	3872.1
32.5°	5127.9	5137.2	5127.9	5186.4	5217.2	5269.5	5155.6	4761.6	4746.3	4777.0	4062.9
35°	6180.6	6143.7	6045.2	5959.0	5780.5	5682.0	5534.2	5084.8	4961.7	5004.8	4250.7
37.5°	7458.0	7405.6	7180.9	6916.2	6534.6	6140.6	5955.9	5478.8	5235.7	5291.1	4453.8
40°	8676.8	8643.0	8375.2	8048.9	7396.4	6722.3	6331.4	5811.2	5540.4	5561.9	4660.1
42.5°	9680.3	9674.1	9449.4	9107.8	8270.5	7350.2	6774.6	6137.5	5860.5	5894.3	4875.5
45°	10440.5	10382.0	10215.8	9969.6	9117.0	8002.8	7310.2	6633.1	6374.5	6414.5	5198.7
47.5°	10440.5	10449.8	10557.5	10532.9	9708.0	8615.3	7895.0	7257.9	7134.8	7171.7	5731.2
50°	9591.0	9677.2	10157.4	10560.6	10015.8	9092.4	8526.0	8039.7	8165.9	8221.3	6660.8
52.5°	7910.4	8055.1	8889.2	9809.5	9788.0	9332.5	9178.6	9033.9	9600.2	9698.7	8033.5
55°	6011.3	6106.7	7193.3	8402.9	8796.9	9135.5	9748.0	10295.9	11499.4	11477.8	9427.9
57.5°	4490.8	4580.0	5515.8	6857.8	7377.9	8282.9	10040.4	11739.4	13383.1	13466.2	10736.0
60°	3302.7	3370.4	4167.6	5269.5	6020.5	6977.8	9923.4	13161.5	15553.1	15457.6	11890.3
62.5°	2443.9	2480.9	3056.4	3773.6	4770.9	5685.0	9187.8	14134.1	17286.0	17092.1	12533.6
65°	1889.9	1902.2	2200.8	2582.4	3468.9	4420.0	8092.0	14281.9	18243.2	18037.0	12521.2
66°	1683.7	1692.9	1911.4	2206.9	2951.8	3869.0	7611.9	14044.9	18394.0	18175.5	12367.3
67.5°	1412.8	1406.6	1535.9	1729.8	2216.2	2985.6	6759.3	13352.3	18215.5	18104.7	11874.9
70°	1046.5	1049.6	1114.2	1160.4	1295.8	1652.9	4881.7	11582.5	16787.3	16781.2	10523.6
72.5°	775.7	784.9	834.1	843.4	809.5	895.7	2813.3	9212.4	13429.3	13432.3	7867.3
75°	581.7	597.1	612.5	618.7	587.9	566.3	1271.2	6199.1	8833.8	8769.2	4453.8
77.5°	443.2	449.4	461.7	452.5	446.3	390.9	529.4	3022.6	4361.5	3973.7	1443.6
80°	323.2	323.2	335.5	323.2	320.1	280.1	289.3	969.6	1280.4	1065.0	310.9
82.5°	203.1	200.1	209.3	206.2	200.1	178.5	169.3	270.9	295.5	264.7	150.8
85°	113.9	110.8	107.7	104.7	95.4	80.0	92.3	101.6	135.4	138.5	107.7
87.5°	40.0	40.0	36.9	33.9	27.7	27.7	33.9	33.9	49.2	49.2	55.4
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°	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4	1871.4
2.5°	1883.7	1849.9	1800.6	1736.0	1689.8	1643.6	1594.4	1566.7	1526.7	1517.4	1529.8
5°	1917.6	1856.0	1732.9	1597.5	1480.5	1375.9	1277.4	1218.9	1160.4	1138.9	1148.1
7.5°	1988.4	1883.7	1674.4	1455.9	1262.0	1105.0	988.0	920.3	868.0	846.4	852.6
10°	2093.0	1933.0	1619.0	1295.8	1046.5	880.3	781.8	738.7	707.9	695.6	698.7
12.5°	2219.2	2003.8	1548.2	1135.8	861.8	717.2	671.0	661.8	655.6	649.5	652.5
15°	2360.8	2065.3	1465.1	978.8	717.2	637.1	621.8	618.7	615.6	615.6	615.6
17.5°	2508.6	2120.7	1372.8	831.1	624.8	587.9	578.7	578.7	578.7	581.7	581.7
20°	2647.1	2163.8	1265.1	698.7	572.5	541.7	535.6	535.6	538.6	541.7	541.7
22.5°	2782.5	2182.3	1138.9	606.4	529.4	501.7	492.5	492.5	492.5	495.6	495.6
25°	2899.5	2182.3	1012.7	547.9	492.5	464.8	452.5	449.4	452.5	452.5	452.5
27.5°	2998.0	2173.1	889.5	507.9	455.5	427.8	415.5	412.5	418.6	421.7	421.7
30°	3102.6	2160.7	791.0	470.9	424.8	397.1	384.7	384.7	394.0	406.3	406.3
32.5°	3204.2	2170.0	714.1	440.2	394.0	372.4	360.1	363.2	381.7	400.1	400.1
35°	3311.9	2188.4	667.9	418.6	372.4	350.9	341.7	350.9	369.4	387.8	387.8
37.5°	3419.6	2210.0	640.2	400.1	354.0	332.4	326.3	338.6	360.1	378.6	381.7
40°	3533.5	2228.5	609.4	381.7	341.7	317.0	314.0	326.3	354.0	372.4	375.5
42.5°	3675.1	2265.4	572.5	366.3	329.3	298.6	301.6	310.9	338.6	366.3	369.4
45°	3952.1	2382.4	535.6	350.9	314.0	289.3	283.2	289.3	320.1	350.9	357.0
47.5°	4472.3	2647.1	495.6	335.5	298.6	283.2	258.6	264.7	292.4	326.3	329.3
50°	5469.6	3210.3	474.0	320.1	286.3	261.6	233.9	233.9	255.5	286.3	286.3
52.5°	7024.0	4219.9	486.3	307.8	270.9	240.1	212.4	209.3	221.6	243.2	243.2
55°	8701.5	5328.0	532.5	295.5	252.4	227.8	197.0	181.6	190.8	203.1	203.1
57.5°	10031.2	5885.1	658.7	289.3	230.8	218.5	178.5	157.0	166.2	178.5	178.5
60°	10616.0	5558.8	800.3	295.5	215.5	203.1	160.1	138.5	153.9	166.2	169.3
62.5°	10142.0	4577.0	858.8	280.1	193.9	181.6	157.0	129.3	147.7	157.0	160.1
65°	9117.0	3478.1	671.0	243.2	178.5	157.0	141.6	123.1	138.5	147.7	147.7
66°	8630.7	3031.8	572.5	224.7	172.4	147.7	135.4	123.1	135.4	141.6	144.7
67.5°	7876.6	2391.6	424.8	197.0	160.1	135.4	126.2	117.0	129.3	135.4	135.4
70°	6159.1	1425.1	255.5	153.9	138.5	120.0	113.9	107.7	117.0	120.0	120.0
72.5°	3856.7	677.2	163.1	113.9	117.0	113.9	95.4	101.6	104.7	107.7	107.7
75°	1868.3	267.8	110.8	83.1	95.4	107.7	76.9	89.3	92.3	98.5	95.4
77.5°	520.2	129.3	70.8	61.6	83.1	83.1	58.5	70.8	83.1	104.7	95.4
80°	150.8	83.1	46.2	46.2	58.5	58.5	40.0	49.2	55.4	61.6	64.6
82.5°	104.7	55.4	30.8	33.9	33.9	36.9	24.6	24.6	30.8	30.8	33.9
85°	83.1	24.6	18.5	21.5	15.4	18.5	12.3	12.3	15.4	12.3	12.3
87.5°	33.9	12.3	12.3	12.3	9.2	9.2	6.2	3.1	3.1	3.1	3.1
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)