

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: P1211720

Luminaire Tested: **ARCH4-90-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211720
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: ARCH4-90-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 765mA 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: 11681 lumens
Efficiency: N/A
Efficacy: 125.5 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

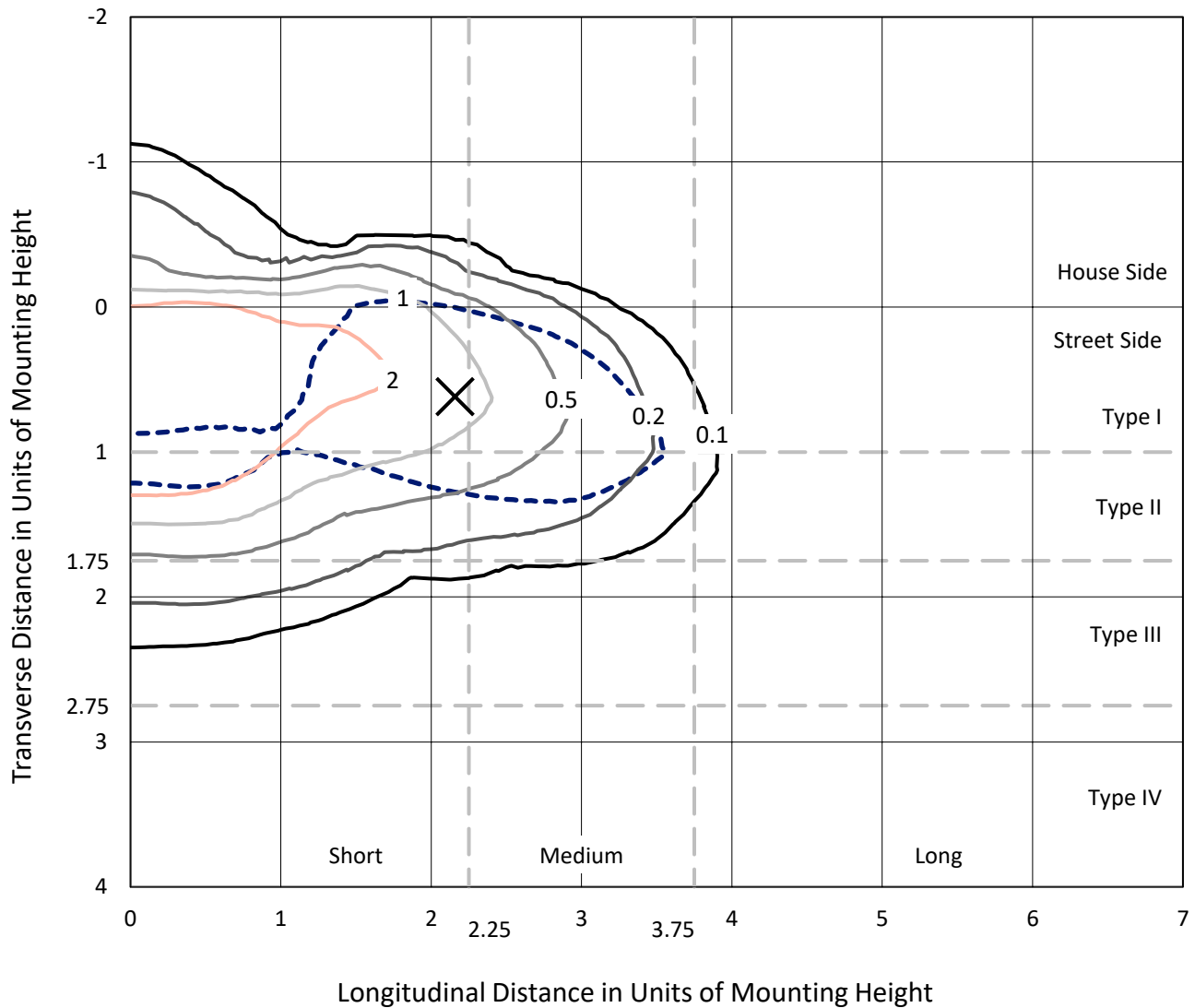
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

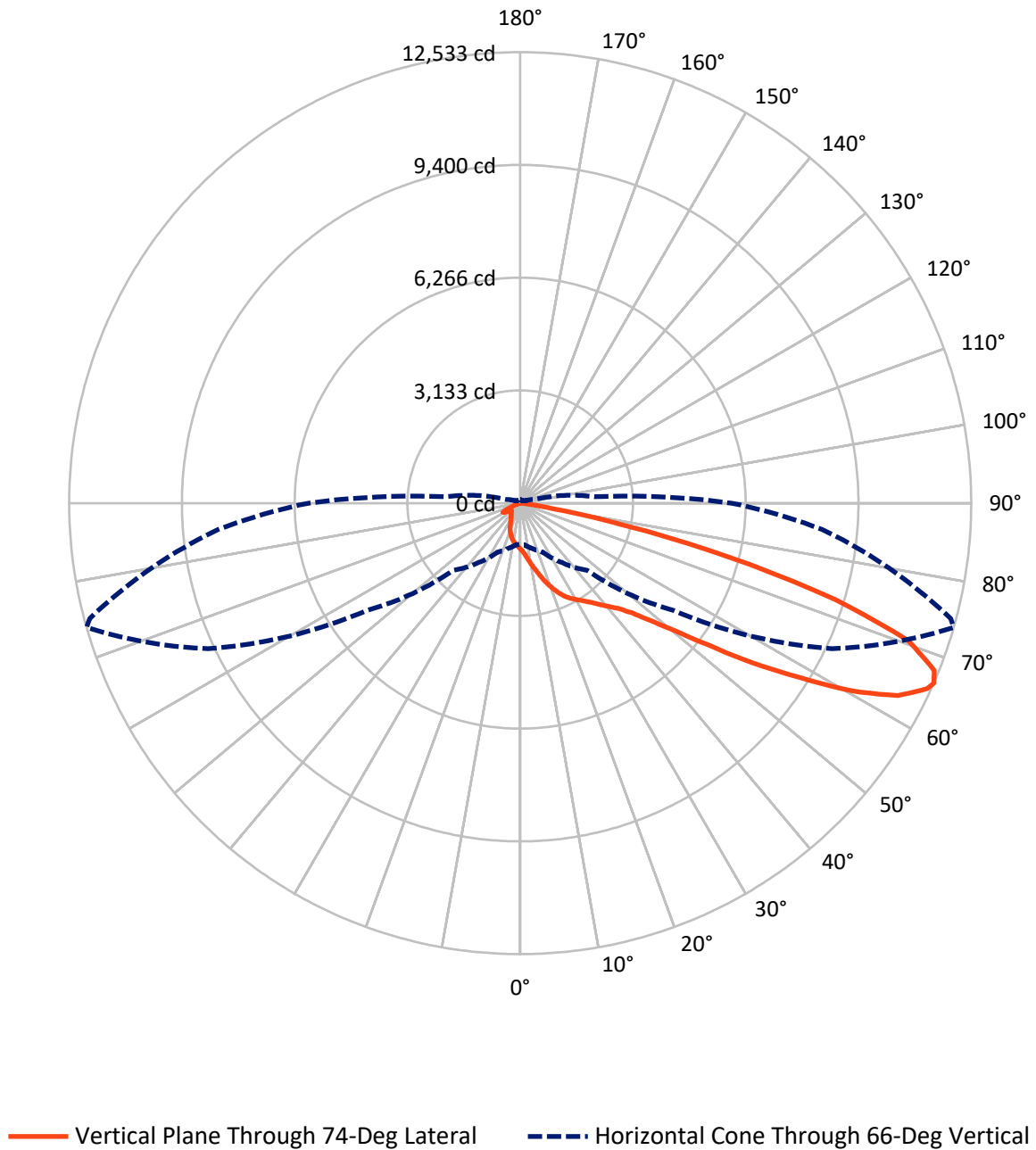
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1145.1	0.0	1145.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10535.9	0.0	10535.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	11681.0	0.0	11681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.1
10°-20°	399.0	3.4
20°-30°	761.4	6.5
30°-40°	1334.6	11.4
40°-50°	2288.5	19.6
50°-60°	2976.4	25.5
60°-70°	2694.4	23.1
70°-80°	1039.6	8.9
80°-90°	62.6	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°	11681.0	100.0
0°-180°	11681.0	100.0

Coefficient of Utilization



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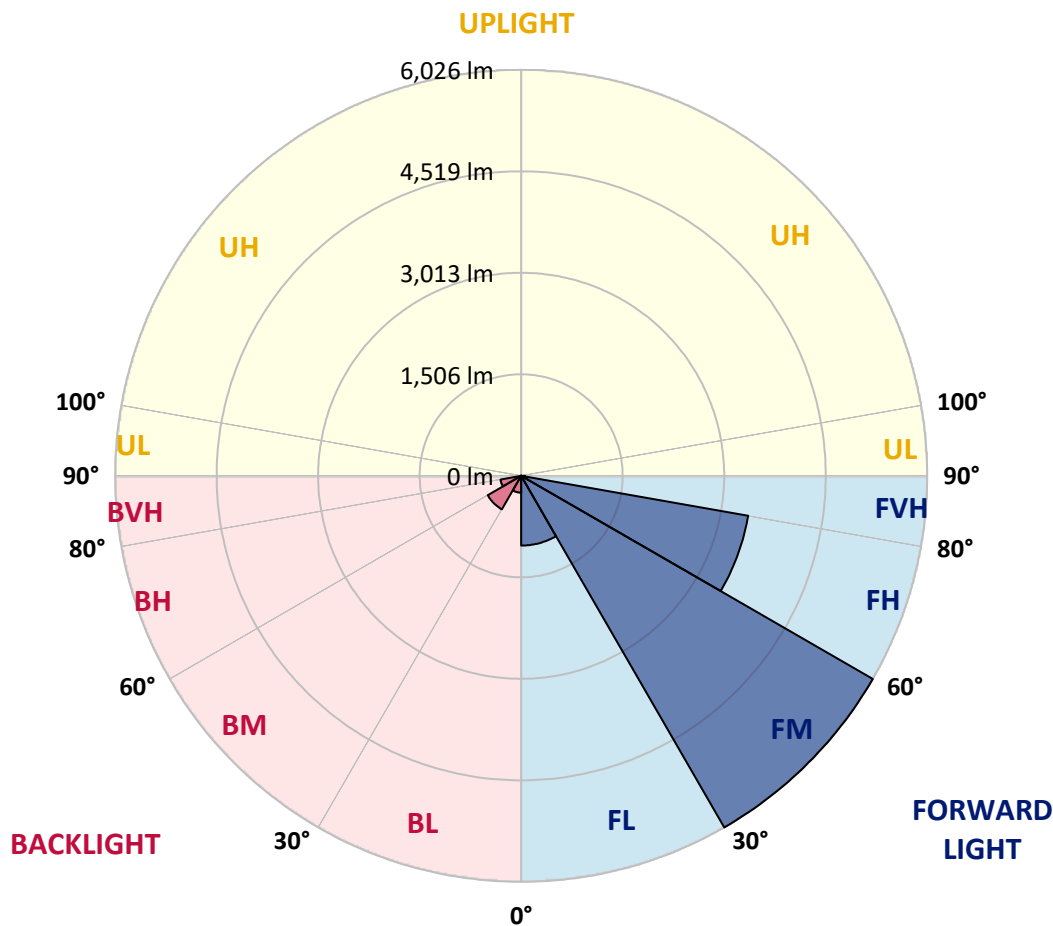
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1035.1	8.9			
FM	(30°-60°)	6025.6	51.6			
FH	(60°-80°)	3421.0	29.3			G2/5000
FVH	(80°-90°)	54.2	0.5			G1/100
BL	(0°-30°)	249.8	2.1	B1/500		
BM	(30°-60°)	573.9	4.9	B1/1000		
BH	(60°-80°)	313.1	2.7	B1/500		G1/500
BVH	(80°-90°)	8.4	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°	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1
2.5°	1530.9	1518.4	1495.3	1493.2	1474.3	1451.2	1411.4	1369.5	1340.1	1335.9	1300.2
5°	1832.9	1826.6	1803.6	1788.9	1753.2	1698.7	1606.4	1514.2	1436.6	1428.2	1348.5
7.5°	1912.6	1916.8	1921.0	1935.7	1923.1	1897.9	1828.7	1698.7	1577.1	1558.2	1419.8
10°	1925.2	1921.0	1921.0	1939.9	1975.5	2011.2	2002.8	1891.7	1734.4	1711.3	1518.4
12.5°	2061.5	2067.8	2053.1	2044.7	2038.5	2057.3	2120.2	2072.0	1900.0	1881.2	1637.9
15°	2237.7	2235.6	2214.6	2214.6	2195.7	2164.3	2204.1	2239.8	2099.3	2076.2	1774.2
17.5°	2365.6	2374.0	2371.9	2384.5	2378.2	2336.3	2315.3	2388.7	2304.8	2275.4	1929.4
20°	2468.4	2491.4	2499.8	2539.7	2558.6	2529.2	2474.7	2520.8	2501.9	2474.7	2086.7
22.5°	2577.4	2596.3	2611.0	2680.2	2732.6	2726.3	2657.1	2646.6	2692.8	2667.6	2241.9
25°	2686.5	2694.9	2738.9	2822.8	2906.7	2927.7	2856.4	2774.6	2864.7	2841.7	2380.3
27.5°	2806.0	2810.2	2862.6	2965.4	3082.8	3126.9	3070.3	2919.3	2996.9	2996.9	2506.1
30°	3024.1	3066.1	3087.0	3179.3	3282.1	3342.9	3275.8	3072.4	3114.3	3133.2	2638.2
32.5°	3493.9	3500.2	3493.9	3533.7	3554.7	3590.4	3512.8	3244.3	3233.8	3254.8	2768.3
35°	4211.1	4186.0	4118.9	4060.1	3938.5	3871.4	3770.7	3464.5	3380.6	3410.0	2896.2
37.5°	5081.5	5045.8	4892.7	4712.4	4452.3	4183.9	4058.0	3733.0	3567.3	3605.0	3034.6
40°	5911.9	5888.9	5706.4	5484.1	5039.5	4580.2	4313.9	3959.5	3774.9	3789.6	3175.1
42.5°	6595.6	6591.4	6438.3	6205.5	5635.1	5008.1	4615.9	4181.8	3993.0	4016.1	3321.9
45°	7113.6	7073.8	6960.5	6792.7	6211.8	5452.7	4980.8	4519.4	4343.2	4370.5	3542.1
47.5°	7113.6	7119.9	7193.3	7176.5	6614.5	5870.0	5379.3	4945.1	4861.3	4886.4	3904.9
50°	6534.8	6593.5	6920.7	7195.4	6824.2	6195.1	5809.2	5477.8	5563.8	5601.6	4538.3
52.5°	5389.7	5488.3	6056.6	6683.7	6669.0	6358.6	6253.8	6155.2	6541.1	6608.2	5473.6
55°	4095.8	4160.8	4901.1	5725.3	5993.7	6224.4	6641.8	7015.0	7835.0	7820.4	6423.6
57.5°	3059.8	3120.6	3758.1	4672.5	5026.9	5643.5	6841.0	7998.6	9118.5	9175.1	7314.9
60°	2250.3	2296.4	2839.6	3590.4	4102.1	4754.3	6761.3	8967.5	10597.0	10532.0	8101.4
62.5°	1665.2	1690.3	2082.5	2571.1	3250.6	3873.5	6260.1	9630.2	11777.7	11645.6	8539.7
65°	1287.7	1296.1	1499.5	1759.5	2363.5	3011.5	5513.5	9730.9	12430.0	12289.4	8531.3
66°	1147.2	1153.4	1302.3	1503.7	2011.2	2636.1	5186.3	9569.4	12532.7	12383.8	8426.4
67.5°	962.6	958.4	1046.5	1178.6	1510.0	2034.3	4605.4	9097.5	12411.1	12335.6	8090.9
70°	713.0	715.1	759.2	790.6	882.9	1126.2	3326.1	7891.7	11438.0	11433.8	7170.2
72.5°	528.5	534.8	568.3	574.6	551.6	610.3	1916.8	6276.8	9150.0	9152.1	5360.4
75°	396.4	406.9	417.3	421.5	400.6	385.9	866.1	4223.7	6018.9	5974.9	3034.6
77.5°	302.0	306.2	314.6	308.3	304.1	266.3	360.7	2059.4	2971.7	2707.5	983.6
80°	220.2	220.2	228.6	220.2	218.1	190.8	197.1	660.6	872.4	725.6	211.8
82.5°	138.4	136.3	142.6	140.5	136.3	121.6	115.3	184.6	201.3	180.4	102.8
85°	77.6	75.5	73.4	71.3	65.0	54.5	62.9	69.2	92.3	94.4	73.4
87.5°	27.3	27.3	25.2	23.1	18.9	18.9	23.1	23.1	33.6	33.6	37.7
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°	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1	1275.1
2.5°	1283.5	1260.4	1226.8	1182.8	1151.3	1119.9	1086.3	1067.5	1040.2	1033.9	1042.3
5°	1306.5	1264.6	1180.7	1088.4	1008.7	937.4	870.3	830.5	790.6	776.0	782.2
7.5°	1354.8	1283.5	1140.9	992.0	859.8	752.9	673.2	627.1	591.4	576.7	580.9
10°	1426.1	1317.0	1103.1	882.9	713.0	599.8	532.7	503.3	482.4	474.0	476.1
12.5°	1512.1	1365.3	1054.9	773.9	587.2	488.6	457.2	450.9	446.7	442.5	444.6
15°	1608.5	1407.2	998.3	666.9	488.6	434.1	423.6	421.5	419.4	419.4	419.4
17.5°	1709.2	1445.0	935.3	566.2	425.7	400.6	394.3	394.3	394.3	396.4	396.4
20°	1803.6	1474.3	861.9	476.1	390.1	369.1	364.9	364.9	367.0	369.1	369.1
22.5°	1895.8	1486.9	776.0	413.1	360.7	341.8	335.5	335.5	335.5	337.6	337.6
25°	1975.5	1486.9	690.0	373.3	335.5	316.7	308.3	306.2	308.3	308.3	308.3
27.5°	2042.6	1480.6	606.1	346.0	310.4	291.5	283.1	281.0	285.2	287.3	287.3
30°	2114.0	1472.2	539.0	320.9	289.4	270.5	262.1	262.1	268.4	276.8	276.8
32.5°	2183.2	1478.5	486.5	299.9	268.4	253.8	245.4	247.5	260.0	272.6	272.6
35°	2256.6	1491.1	455.1	285.2	253.8	239.1	232.8	239.1	251.7	264.2	264.2
37.5°	2330.0	1505.8	436.2	272.6	241.2	226.5	222.3	230.7	245.4	258.0	260.0
40°	2407.6	1518.4	415.2	260.0	232.8	216.0	213.9	222.3	241.2	253.8	255.9
42.5°	2504.0	1543.5	390.1	249.6	224.4	203.4	205.5	211.8	230.7	249.6	251.7
45°	2692.8	1623.2	364.9	239.1	213.9	197.1	192.9	197.1	218.1	239.1	243.3
47.5°	3047.2	1803.6	337.6	228.6	203.4	192.9	176.2	180.4	199.2	222.3	224.4
50°	3726.7	2187.4	323.0	218.1	195.0	178.3	159.4	159.4	174.1	195.0	195.0
52.5°	4785.8	2875.2	331.4	209.7	184.6	163.6	144.7	142.6	151.0	165.7	165.7
55°	5928.7	3630.2	362.8	201.3	172.0	155.2	134.2	123.7	130.0	138.4	138.4
57.5°	6834.7	4009.8	448.8	197.1	157.3	148.9	121.6	107.0	113.2	121.6	121.6
60°	7233.2	3787.5	545.3	201.3	146.8	138.4	109.1	94.4	104.9	113.2	115.3
62.5°	6910.2	3118.5	585.1	190.8	132.1	123.7	107.0	88.1	100.7	107.0	109.1
65°	6211.8	2369.8	457.2	165.7	121.6	107.0	96.5	83.9	94.4	100.7	100.7
66°	5880.5	2065.7	390.1	153.1	117.4	100.7	92.3	83.9	92.3	96.5	98.6
67.5°	5366.7	1629.5	289.4	134.2	109.1	92.3	86.0	79.7	88.1	92.3	92.3
70°	4196.4	971.0	174.1	104.9	94.4	81.8	77.6	73.4	79.7	81.8	81.8
72.5°	2627.8	461.4	111.2	77.6	79.7	77.6	65.0	69.2	71.3	73.4	73.4
75°	1273.0	182.5	75.5	56.6	65.0	73.4	52.4	60.8	62.9	67.1	65.0
77.5°	354.4	88.1	48.2	41.9	56.6	56.6	39.8	48.2	56.6	71.3	65.0
80°	102.8	56.6	31.5	31.5	39.8	39.8	27.3	33.6	37.7	41.9	44.0
82.5°	71.3	37.7	21.0	23.1	23.1	25.2	16.8	16.8	21.0	21.0	23.1
85°	56.6	16.8	12.6	14.7	10.5	12.6	8.4	8.4	10.5	8.4	8.4
87.5°	23.1	8.4	8.4	8.4	6.3	6.3	4.2	2.1	2.1	2.1	2.1
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)