

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: P1210488

Luminaire Tested: **ARCH3-140-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210488
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: ARCH3-140-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13743 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

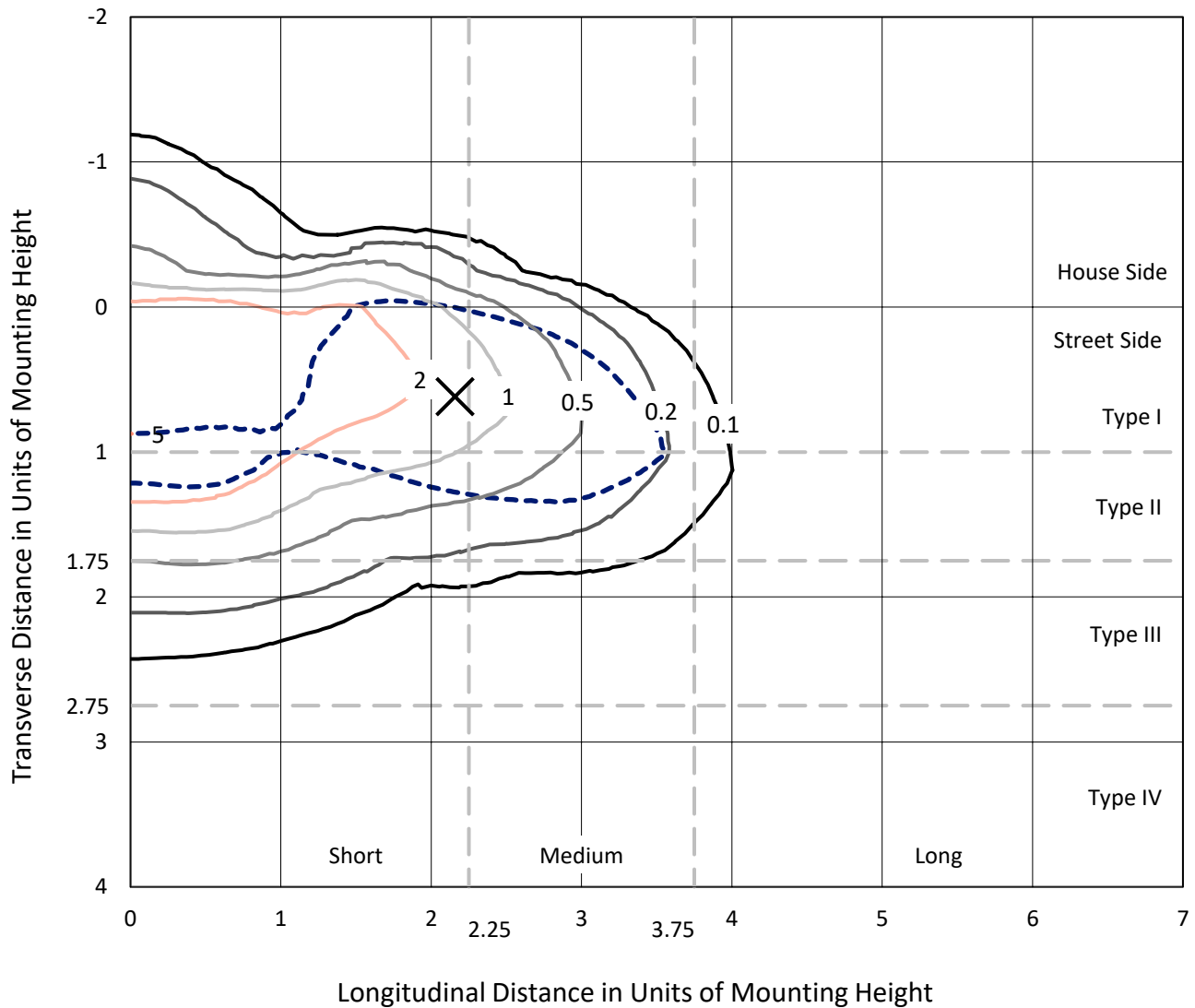
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

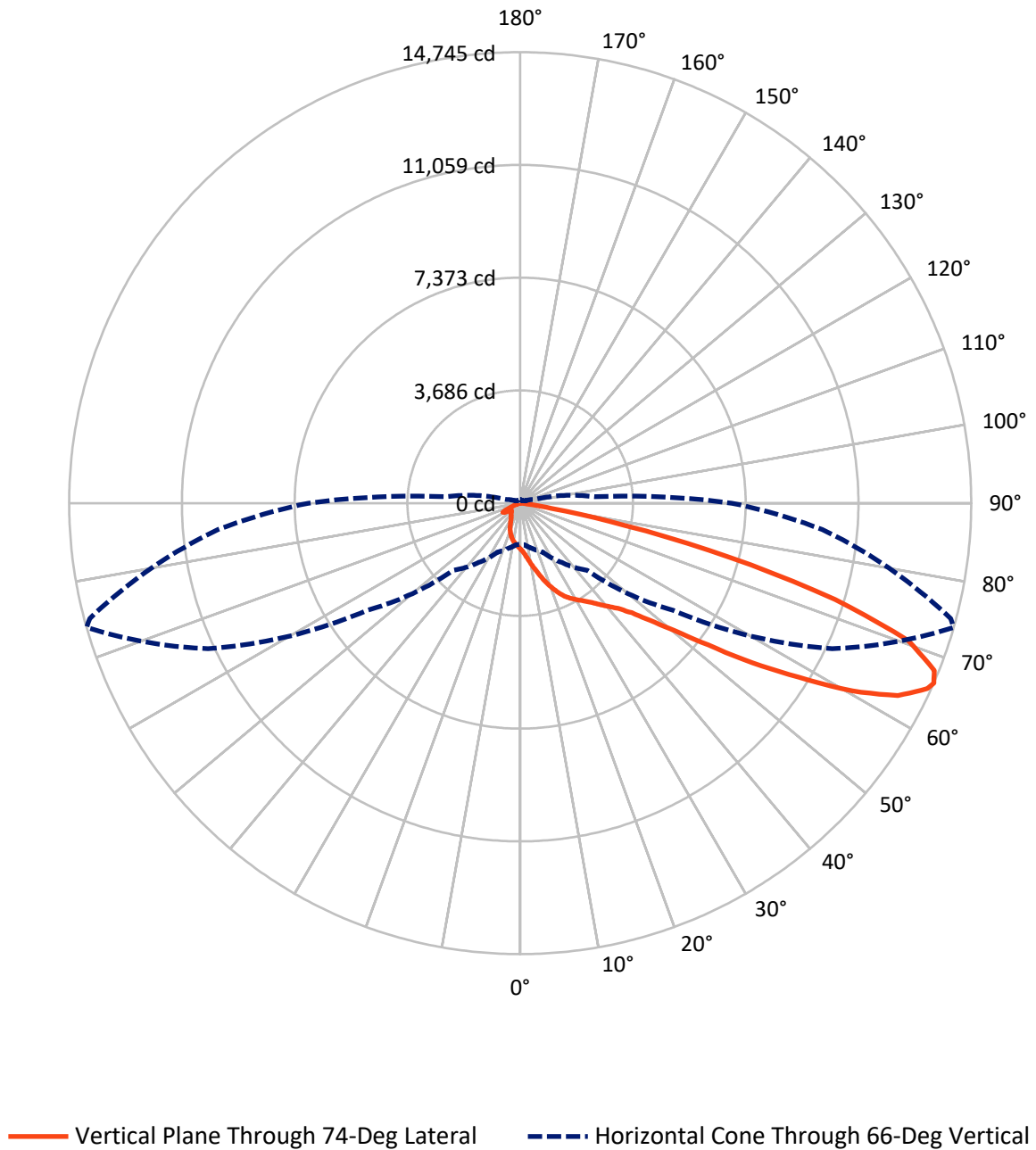
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1347.2	0.0	1347.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12395.8	0.0	12395.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	13743.0	0.0	13743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	1.1
10°-20°	469.4	3.4
20°-30°	895.9	6.5
30°-40°	1570.2	11.4
40°-50°	2692.5	19.6
50°-60°	3501.8	25.5
60°-70°	3170.0	23.1
70°-80°	1223.2	8.9
80°-90°	73.6	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°	13743.0	100.0
0°-180°	13743.0	100.0

Coefficient of Utilization



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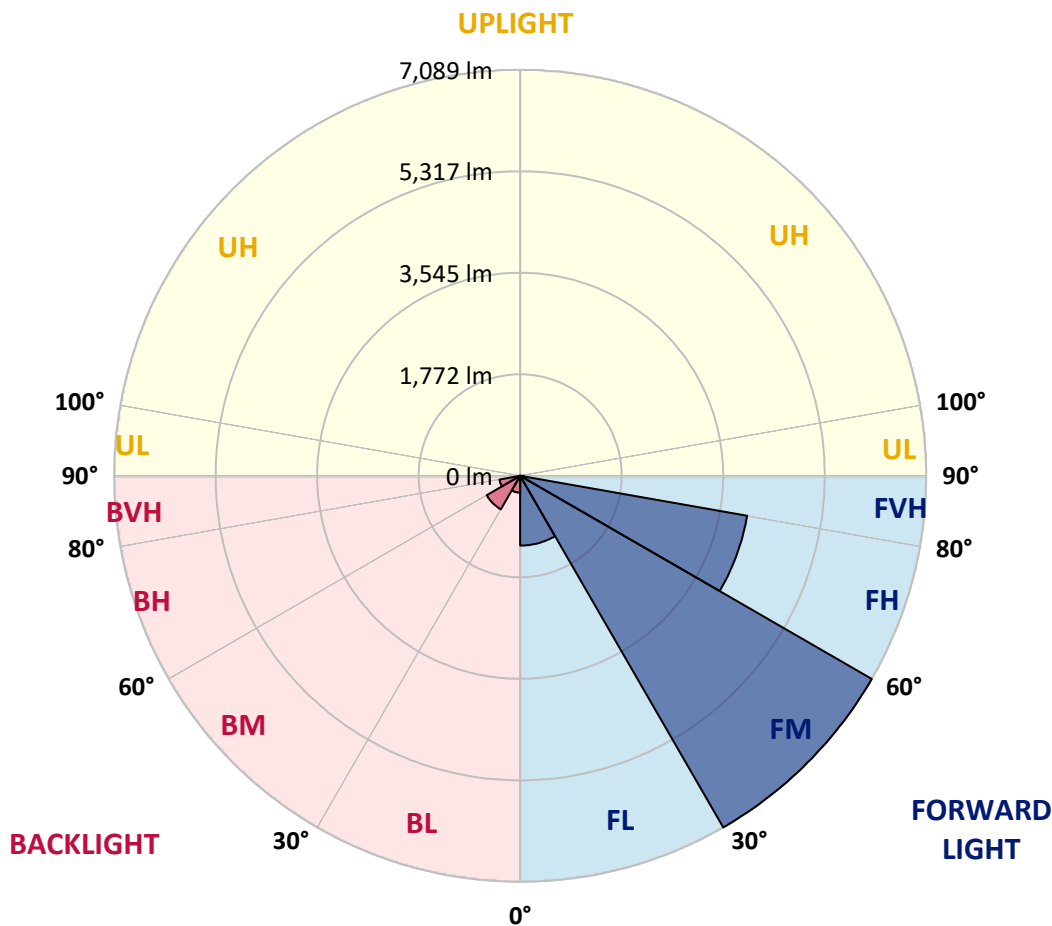
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.8	8.9			
FM	(30°-60°)	7089.3	51.6			
FH	(60°-80°)	4024.9	29.3			G2/5000
FVH	(80°-90°)	63.7	0.5			G1/100
BL	(0°-30°)	293.9	2.1	B1/500		
BM	(30°-60°)	675.2	4.9	B1/1000		
BH	(60°-80°)	368.3	2.7	B1/500		G1/500
BVH	(80°-90°)	9.9	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°	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2
2.5°	1801.2	1786.4	1759.2	1756.8	1734.6	1707.4	1660.5	1611.2	1576.7	1571.7	1529.8
5°	2156.5	2149.1	2121.9	2104.7	2062.7	1998.6	1890.0	1781.4	1690.2	1680.3	1586.5
7.5°	2250.3	2255.2	2260.1	2277.4	2262.6	2233.0	2151.6	1998.6	1855.5	1833.3	1670.4
10°	2265.1	2260.1	2260.1	2282.3	2324.3	2366.2	2356.3	2225.6	2040.5	2013.4	1786.4
12.5°	2425.4	2432.8	2415.6	2405.7	2398.3	2420.5	2494.5	2437.8	2235.4	2213.2	1927.0
15°	2632.7	2630.2	2605.6	2605.6	2583.3	2546.3	2593.2	2635.2	2469.8	2442.7	2087.4
17.5°	2783.2	2793.1	2790.6	2805.4	2798.0	2748.7	2724.0	2810.3	2711.7	2677.1	2270.0
20°	2904.1	2931.2	2941.1	2988.0	3010.2	2975.7	2911.5	2965.8	2943.6	2911.5	2455.0
22.5°	3032.4	3054.6	3071.9	3153.3	3215.0	3207.6	3126.2	3113.8	3168.1	3138.5	2637.6
25°	3160.7	3170.6	3222.4	3321.1	3419.8	3444.5	3360.6	3264.3	3370.4	3343.3	2800.5
27.5°	3301.4	3306.3	3368.0	3488.9	3627.0	3678.9	3612.2	3434.6	3525.9	3525.9	2948.5
30°	3558.0	3607.3	3632.0	3740.5	3861.5	3933.0	3854.0	3614.7	3664.1	3686.3	3104.0
32.5°	4110.7	4118.1	4110.7	4157.5	4182.2	4224.2	4132.9	3817.0	3804.7	3829.4	3256.9
35°	4954.5	4924.9	4845.9	4776.8	4633.7	4554.8	4436.3	4076.1	3977.4	4012.0	3407.5
37.5°	5978.5	5936.5	5756.4	5544.2	5238.2	4922.4	4774.4	4391.9	4197.0	4241.4	3570.3
40°	6955.5	6928.4	6713.7	6452.2	5929.1	5388.8	5075.4	4658.4	4441.3	4458.6	3735.6
42.5°	7759.9	7755.0	7574.9	7301.0	6629.9	5892.1	5430.7	4920.0	4697.9	4725.0	3908.3
45°	8369.4	8322.5	8189.2	7991.8	7308.4	6415.2	5860.0	5317.2	5109.9	5142.0	4167.4
47.5°	8369.4	8376.8	8463.1	8443.4	7782.1	6906.2	6328.8	5818.1	5719.4	5749.0	4594.3
50°	7688.4	7757.4	8142.4	8465.6	8028.9	7288.6	6834.6	6444.8	6546.0	6590.4	5339.4
52.5°	6341.2	6457.1	7125.8	7863.5	7846.3	7481.1	7357.7	7241.8	7695.8	7774.7	6439.9
55°	4818.8	4895.3	5766.3	6735.9	7051.8	7323.2	7814.2	8253.4	9218.1	9200.9	7557.6
57.5°	3599.9	3671.5	4421.5	5497.3	5914.3	6639.7	8048.6	9410.6	10728.2	10794.8	8606.2
60°	2647.5	2701.8	3340.8	4224.2	4826.2	5593.6	7954.8	10550.5	12467.7	12391.2	9531.5
62.5°	1959.1	1988.7	2450.1	3025.0	3824.4	4557.3	7365.1	11330.2	13856.8	13701.4	10047.2
65°	1515.0	1524.8	1764.2	2070.1	2780.7	3543.2	6486.7	11448.6	14624.2	14458.8	10037.3
66°	1349.7	1357.1	1532.2	1769.1	2366.2	3101.5	6101.8	11258.7	14745.1	14569.9	9913.9
67.5°	1132.5	1127.6	1231.2	1386.7	1776.5	2393.4	5418.4	10703.5	14602.0	14513.1	9519.2
70°	838.9	841.4	893.2	930.2	1038.8	1325.0	3913.3	9284.8	13457.1	13452.2	8436.0
72.5°	621.8	629.2	668.7	676.1	648.9	718.0	2255.2	7384.9	10765.2	10767.6	6306.6
75°	466.3	478.7	491.0	495.9	471.3	454.0	1019.0	4969.3	7081.4	7029.6	3570.3
77.5°	355.3	360.2	370.1	362.7	357.8	313.4	424.4	2423.0	3496.3	3185.4	1157.2
80°	259.1	259.1	268.9	259.1	256.6	224.5	231.9	777.2	1026.4	853.7	249.2
82.5°	162.8	160.4	167.8	165.3	160.4	143.1	135.7	217.1	236.9	212.2	120.9
85°	91.3	88.8	86.4	83.9	76.5	64.2	74.0	81.4	108.6	111.0	86.4
87.5°	32.1	32.1	29.6	27.1	22.2	22.2	27.1	27.1	39.5	39.5	44.4
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°	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2	1500.2
2.5°	1510.0	1482.9	1443.4	1391.6	1354.6	1317.6	1278.1	1255.9	1223.8	1216.4	1226.3
5°	1537.2	1487.8	1389.1	1280.6	1186.8	1102.9	1024.0	977.1	930.2	912.9	920.3
7.5°	1593.9	1510.0	1342.3	1167.1	1011.6	885.8	792.0	737.7	695.8	678.5	683.5
10°	1677.8	1549.5	1297.8	1038.8	838.9	705.7	626.7	592.2	567.5	557.6	560.1
12.5°	1779.0	1606.3	1241.1	910.5	690.9	574.9	537.9	530.5	525.6	520.6	523.1
15°	1892.5	1655.6	1174.5	784.6	574.9	510.7	498.4	495.9	493.5	493.5	493.5
17.5°	2010.9	1700.0	1100.5	666.2	500.9	471.3	463.9	463.9	463.9	466.3	466.3
20°	2121.9	1734.6	1014.1	560.1	458.9	434.3	429.3	429.3	431.8	434.3	434.3
22.5°	2230.5	1749.4	912.9	486.1	424.4	402.2	394.8	394.8	394.8	397.2	397.2
25°	2324.3	1749.4	811.8	439.2	394.8	372.6	362.7	360.2	362.7	362.7	362.7
27.5°	2403.2	1742.0	713.1	407.1	365.2	343.0	333.1	330.6	335.6	338.0	338.0
30°	2487.1	1732.1	634.1	377.5	340.5	318.3	308.4	308.4	315.8	325.7	325.7
32.5°	2568.5	1739.5	572.4	352.8	315.8	298.6	288.7	291.2	306.0	320.8	320.8
35°	2654.9	1754.3	535.4	335.6	298.6	281.3	273.9	281.3	296.1	310.9	310.9
37.5°	2741.3	1771.6	513.2	320.8	283.7	266.5	261.5	271.4	288.7	303.5	306.0
40°	2832.6	1786.4	488.5	306.0	273.9	254.1	251.7	261.5	283.7	298.6	301.0
42.5°	2946.1	1816.0	458.9	293.6	264.0	239.3	241.8	249.2	271.4	293.6	296.1
45°	3168.1	1909.8	429.3	281.3	251.7	231.9	227.0	231.9	256.6	281.3	286.2
47.5°	3585.1	2121.9	397.2	268.9	239.3	227.0	207.3	212.2	234.4	261.5	264.0
50°	4384.5	2573.5	380.0	256.6	229.5	209.7	187.5	187.5	204.8	229.5	229.5
52.5°	5630.6	3382.8	389.8	246.7	217.1	192.5	170.2	167.8	177.7	194.9	194.9
55°	6975.3	4271.0	426.9	236.9	202.3	182.6	157.9	145.6	153.0	162.8	162.8
57.5°	8041.2	4717.6	528.0	231.9	185.1	175.2	143.1	125.8	133.2	143.1	143.1
60°	8510.0	4456.1	641.5	236.9	172.7	162.8	128.3	111.0	123.4	133.2	135.7
62.5°	8130.0	3669.0	688.4	224.5	155.4	145.6	125.8	103.6	118.4	125.8	128.3
65°	7308.4	2788.1	537.9	194.9	143.1	125.8	113.5	98.7	111.0	118.4	118.4
66°	6918.5	2430.4	458.9	180.1	138.2	118.4	108.6	98.7	108.6	113.5	116.0
67.5°	6314.0	1917.2	340.5	157.9	128.3	108.6	101.2	93.8	103.6	108.6	108.6
70°	4937.2	1142.4	204.8	123.4	111.0	96.2	91.3	86.4	93.8	96.2	96.2
72.5°	3091.6	542.8	130.8	91.3	93.8	91.3	76.5	81.4	83.9	86.4	86.4
75°	1497.7	214.7	88.8	66.6	76.5	86.4	61.7	71.6	74.0	79.0	76.5
77.5°	417.0	103.6	56.7	49.3	66.6	66.6	46.9	56.7	66.6	83.9	76.5
80°	120.9	66.6	37.0	37.0	46.9	46.9	32.1	39.5	44.4	49.3	51.8
82.5°	83.9	44.4	24.7	27.1	27.1	29.6	19.7	19.7	24.7	24.7	27.1
85°	66.6	19.7	14.8	17.3	12.3	14.8	9.9	9.9	12.3	9.9	9.9
87.5°	27.1	9.9	9.9	9.9	7.4	7.4	4.9	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)