

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: P1210310

Luminaire Tested: **ARCH2-80-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8304 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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

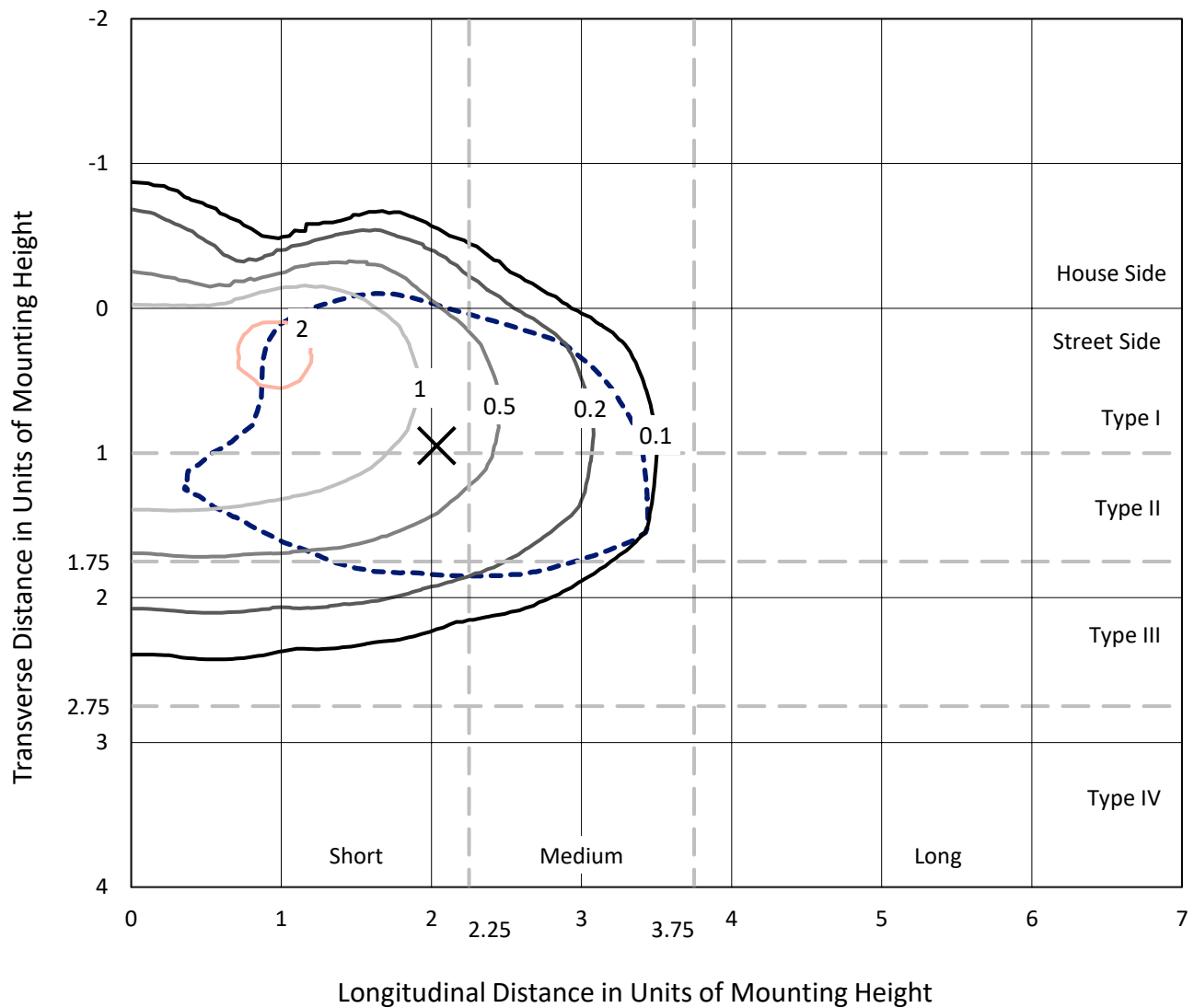


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Iso-Footcandle Lines of Horizontal Illumination

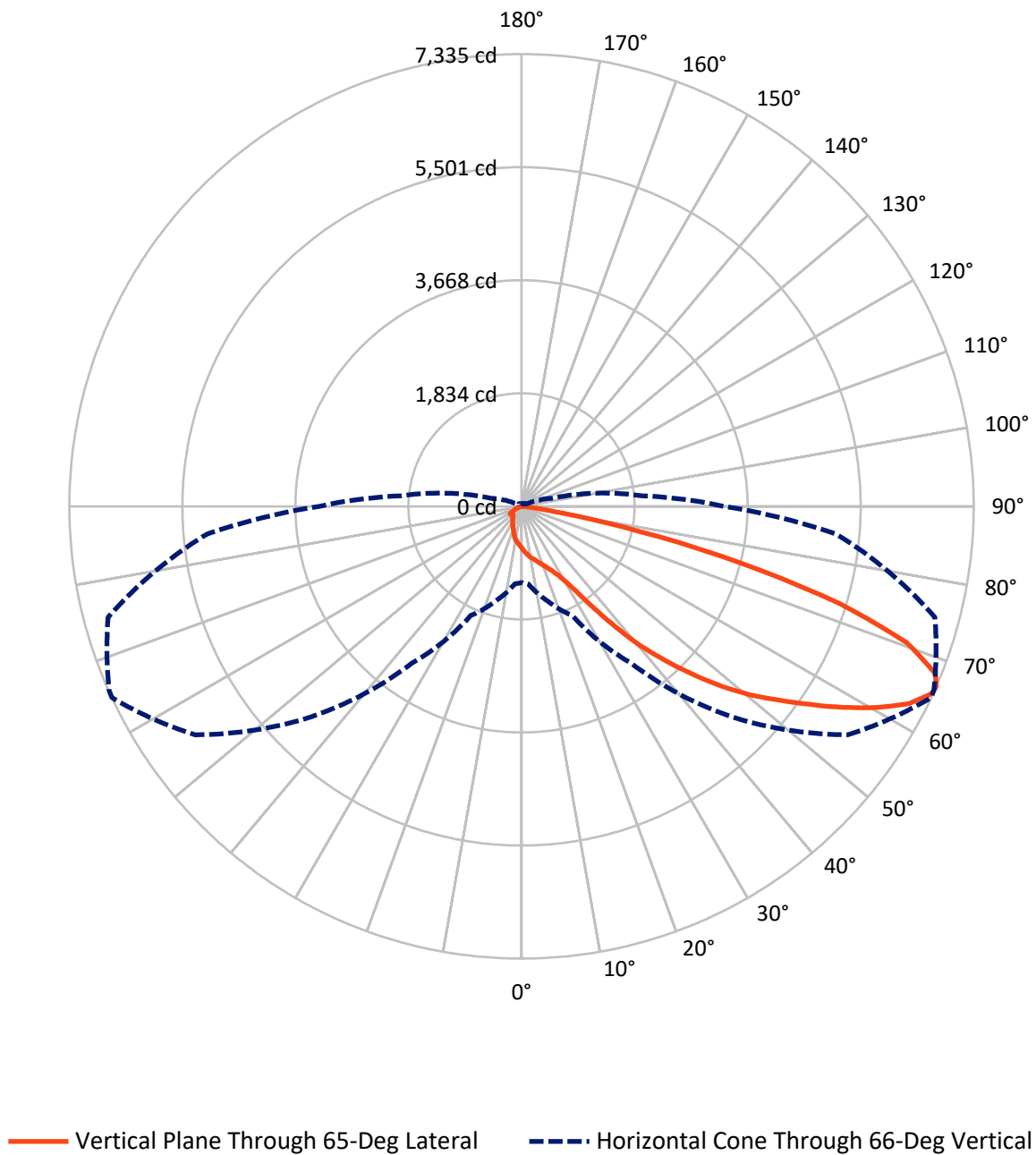
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.0	0.0	980.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7324.0	0.0	7324.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	8304.0	0.0	8304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	0.8
10°-20°	189.9	2.3
20°-30°	347.5	4.2
30°-40°	706.1	8.5
40°-50°	1491.2	18.0
50°-60°	2292.4	27.6
60°-70°	2307.5	27.8
70°-80°	862.2	10.4
80°-90°	43.1	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°	8304.0	100.0
0°-180°	8304.0	100.0

Coefficient of Utilization



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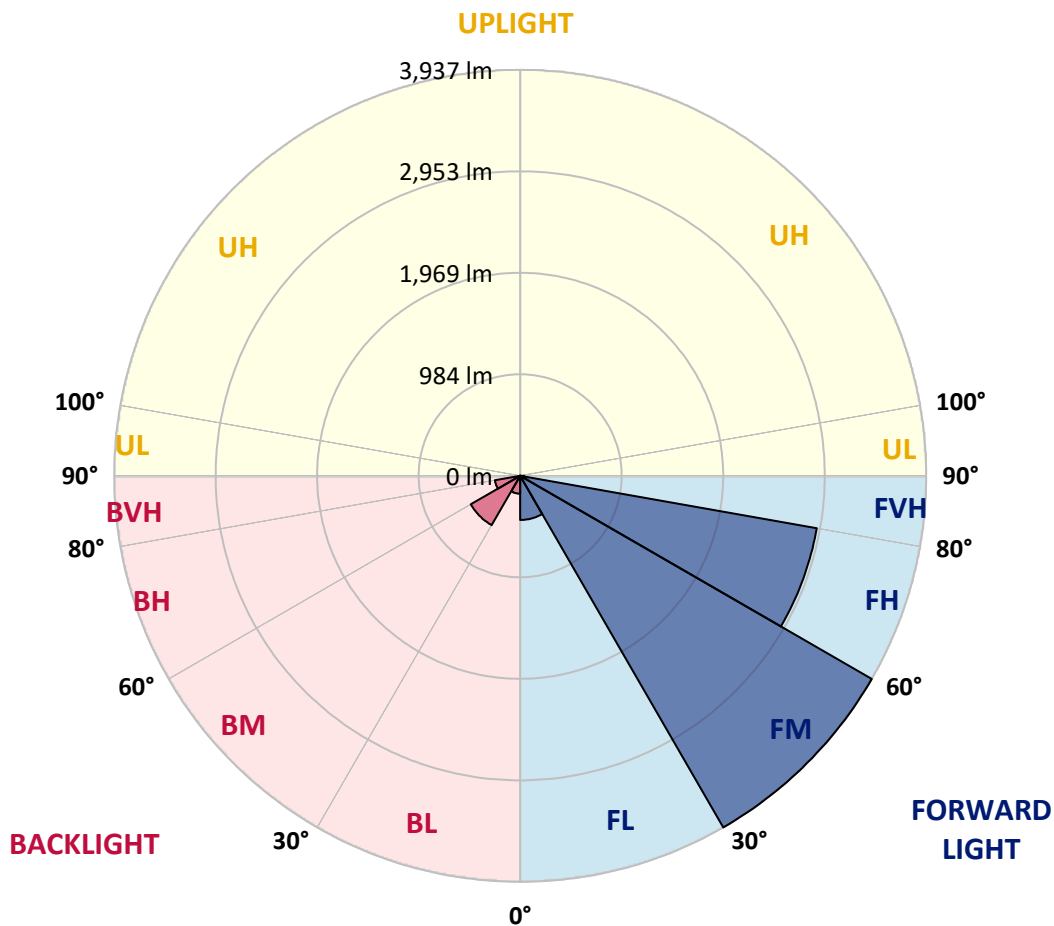
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.1	5.2			
FM	(30°-60°)	3937.2	47.4			
FH	(60°-80°)	2920.7	35.2			G2/5000
FVH	(80°-90°)	38.0	0.5			G1/100
BL	(0°-30°)	173.5	2.1	B1/500		
BM	(30°-60°)	552.6	6.7	B1/1000		
BH	(60°-80°)	249.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	771.5	773.0	770.0	763.9	757.9	750.4	738.3	718.7	715.7	702.2	687.1
5°	824.2	827.2	822.7	821.2	818.2	807.6	791.1	762.4	759.4	732.3	697.6
7.5°	842.3	846.8	843.8	843.8	843.8	839.3	831.7	806.1	801.6	766.9	714.2
10°	855.8	858.9	857.4	863.4	867.9	864.9	860.4	845.3	840.8	806.1	736.8
12.5°	876.9	878.5	880.0	883.0	890.5	893.5	892.0	878.5	875.4	851.3	765.4
15°	896.5	896.5	898.0	911.6	922.1	928.2	929.7	919.1	916.1	896.5	801.6
17.5°	914.6	916.1	920.6	935.7	953.8	965.8	973.4	968.9	964.3	949.3	843.8
20°	941.7	944.7	949.3	970.4	988.4	1008.0	1023.1	1021.6	1020.1	1009.5	893.5
22.5°	988.4	991.5	999.0	1018.6	1036.7	1060.8	1086.4	1084.9	1080.4	1072.8	952.3
25°	1059.3	1059.3	1063.8	1080.4	1103.0	1131.6	1155.7	1160.2	1155.7	1151.2	1026.1
27.5°	1148.2	1149.7	1149.7	1167.8	1188.8	1225.0	1255.1	1259.7	1259.7	1255.1	1125.6
30°	1271.7	1267.2	1264.2	1279.3	1301.9	1354.6	1407.3	1416.4	1411.8	1419.4	1265.7
32.5°	1484.2	1476.6	1451.0	1454.0	1467.6	1539.9	1628.8	1660.5	1659.0	1672.5	1491.7
35°	1778.0	1762.9	1725.3	1693.6	1692.1	1770.5	1906.1	2025.1	2023.6	2070.3	1835.3
37.5°	2109.5	2129.1	2058.3	2004.0	1987.4	2049.2	2224.0	2481.7	2495.2	2576.6	2285.8
40°	2552.5	2564.5	2474.1	2397.3	2318.9	2341.5	2572.1	2972.9	2997.0	3087.4	2736.3
42.5°	2938.2	2950.3	2897.5	2804.1	2704.7	2662.5	2923.1	3418.9	3438.5	3563.5	3200.4
45°	3200.4	3209.4	3227.5	3236.6	3123.5	3036.2	3352.6	3876.9	3901.0	4045.7	3653.9
47.5°	3405.3	3412.8	3449.0	3539.4	3516.8	3447.5	3789.5	4353.1	4359.1	4520.3	4095.4
50°	3500.2	3518.3	3607.2	3745.8	3845.3	3864.9	4264.2	4803.6	4820.2	4973.9	4512.8
52.5°	3394.8	3400.8	3625.3	3886.0	4086.4	4285.3	4740.3	5221.0	5269.2	5383.7	4888.0
55°	3039.2	3082.9	3423.4	3881.5	4276.2	4684.6	5249.6	5671.5	5715.2	5787.5	5218.0
57.5°	2626.3	2674.5	3088.9	3687.1	4357.6	5053.7	5721.2	6150.7	6180.8	6200.4	5520.8
60°	2269.2	2314.4	2740.8	3314.9	4276.2	5314.4	6159.7	6626.8	6652.4	6599.7	5673.0
62.5°	1830.7	1875.9	2305.4	2822.2	3956.8	5367.1	6485.2	7050.2	7060.8	6917.6	5579.6
65°	1380.2	1410.3	1769.0	2211.9	3397.8	5086.9	6559.0	7313.9	7303.3	7009.5	5299.3
66°	1237.1	1262.7	1579.1	1955.8	3107.0	4830.7	6459.5	7335.0	7324.4	6941.7	5115.5
67.5°	1066.8	1074.3	1335.0	1600.2	2599.2	4286.8	6156.7	7238.6	7247.6	6754.9	4779.5
70°	833.2	831.7	982.4	1113.5	1775.0	3049.7	5135.1	6631.3	6675.0	6049.7	4075.8
72.5°	533.4	515.3	602.7	681.1	1033.6	1770.5	3744.3	5404.8	5478.6	4752.4	3036.2
75°	317.9	299.8	320.9	340.5	495.7	851.3	2201.4	3678.0	3748.9	3046.7	1806.6
77.5°	238.1	230.5	232.0	215.5	220.0	319.4	1005.0	1943.7	1995.0	1247.6	685.6
80°	182.3	162.7	152.2	159.7	144.7	126.6	373.7	669.0	700.7	295.3	143.1
82.5°	122.0	105.5	97.9	107.0	91.9	70.8	90.4	129.6	126.6	79.9	55.8
85°	63.3	54.2	54.2	54.2	46.7	34.7	39.2	52.7	52.7	42.2	33.1
87.5°	18.1	16.6	19.6	18.1	13.6	13.6	15.1	18.1	18.1	16.6	15.1
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°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	675.0	669.0	652.4	640.4	628.3	617.8	605.7	602.7	596.7	598.2	595.2
5°	679.6	663.0	634.4	607.2	586.1	568.1	545.5	536.4	524.4	519.8	516.8
7.5°	685.6	661.5	619.3	581.6	545.5	509.3	473.1	452.0	438.5	432.4	427.9
10°	699.1	667.5	611.8	553.0	491.2	440.0	403.8	388.7	379.7	378.2	376.7
12.5°	717.2	676.5	604.2	516.8	435.5	387.2	364.6	360.1	358.6	358.6	357.1
15°	744.3	691.6	592.2	474.6	391.8	358.6	348.1	340.5	337.5	337.5	337.5
17.5°	771.5	709.7	574.1	430.9	361.6	340.5	330.0	325.5	322.5	324.0	322.5
20°	806.1	730.8	550.0	393.3	342.0	325.5	314.9	310.4	308.9	308.9	308.9
22.5°	845.3	754.9	519.8	364.6	325.5	310.4	299.8	295.3	292.3	293.8	293.8
25°	898.0	785.0	488.2	336.0	308.9	295.3	283.3	277.2	277.2	278.8	280.3
27.5°	965.8	821.2	456.6	317.9	293.8	280.3	266.7	260.7	262.2	265.2	265.2
30°	1065.3	870.9	424.9	298.3	277.2	262.2	250.1	244.1	247.1	253.1	253.1
32.5°	1206.9	952.3	397.8	275.7	253.1	236.6	224.5	220.0	227.5	239.6	239.6
35°	1460.1	1101.5	381.2	253.1	227.5	207.9	192.9	188.3	198.9	214.0	214.0
37.5°	1799.1	1341.0	387.2	233.6	206.4	183.8	167.3	161.2	168.8	182.3	186.8
40°	2177.3	1630.3	440.0	217.0	186.8	164.2	147.7	141.6	146.2	152.2	153.7
42.5°	2555.5	1937.7	539.4	204.9	171.8	147.7	132.6	128.1	131.1	132.6	134.1
45°	2932.2	2242.1	664.5	197.4	158.2	134.1	119.0	119.0	120.5	120.5	120.5
47.5°	3289.3	2538.9	795.6	195.9	146.2	120.5	108.5	110.0	110.0	111.5	111.5
50°	3626.8	2804.1	928.2	200.4	135.6	108.5	99.4	99.4	99.4	101.0	99.4
52.5°	3908.6	3036.2	1066.8	207.9	125.1	99.4	90.4	90.4	90.4	91.9	90.4
55°	4175.3	3247.1	1208.4	218.5	116.0	91.9	82.9	79.9	79.9	81.4	79.9
57.5°	4392.3	3387.2	1342.5	220.0	108.5	84.4	76.8	72.3	72.3	72.3	72.3
60°	4401.3	3305.9	1381.7	192.9	99.4	76.8	69.3	63.3	64.8	64.8	64.8
62.5°	4113.5	2877.9	1110.5	144.7	88.9	69.3	63.3	57.3	57.3	57.3	57.3
65°	3548.5	2239.1	650.9	114.5	76.8	61.8	55.8	51.2	51.2	51.2	49.7
66°	3283.3	1963.3	498.7	104.0	72.3	60.3	54.2	49.7	48.2	46.7	46.7
67.5°	2850.8	1552.0	311.9	91.9	66.3	55.8	49.7	45.2	43.7	42.2	42.2
70°	2147.2	985.4	152.2	70.8	57.3	48.2	43.7	39.2	37.7	36.2	34.7
72.5°	1506.8	577.1	79.9	54.2	46.7	42.2	37.7	33.1	31.6	30.1	30.1
75°	851.3	278.8	52.7	39.2	37.7	34.7	31.6	27.1	25.6	25.6	25.6
77.5°	322.5	96.4	36.2	28.6	30.1	27.1	22.6	22.6	21.1	22.6	21.1
80°	84.4	42.2	22.6	21.1	22.6	19.6	16.6	18.1	18.1	18.1	18.1
82.5°	45.2	24.1	13.6	15.1	13.6	13.6	10.5	12.1	13.6	12.1	13.6
85°	31.6	12.1	7.5	7.5	6.0	6.0	4.5	6.0	7.5	6.0	6.0
87.5°	16.6	4.5	4.5	4.5	4.5	3.0	1.5	0.0	1.5	1.5	1.5
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)