

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: P842670

Luminaire Tested: **ARCH4-80-727-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9440 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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

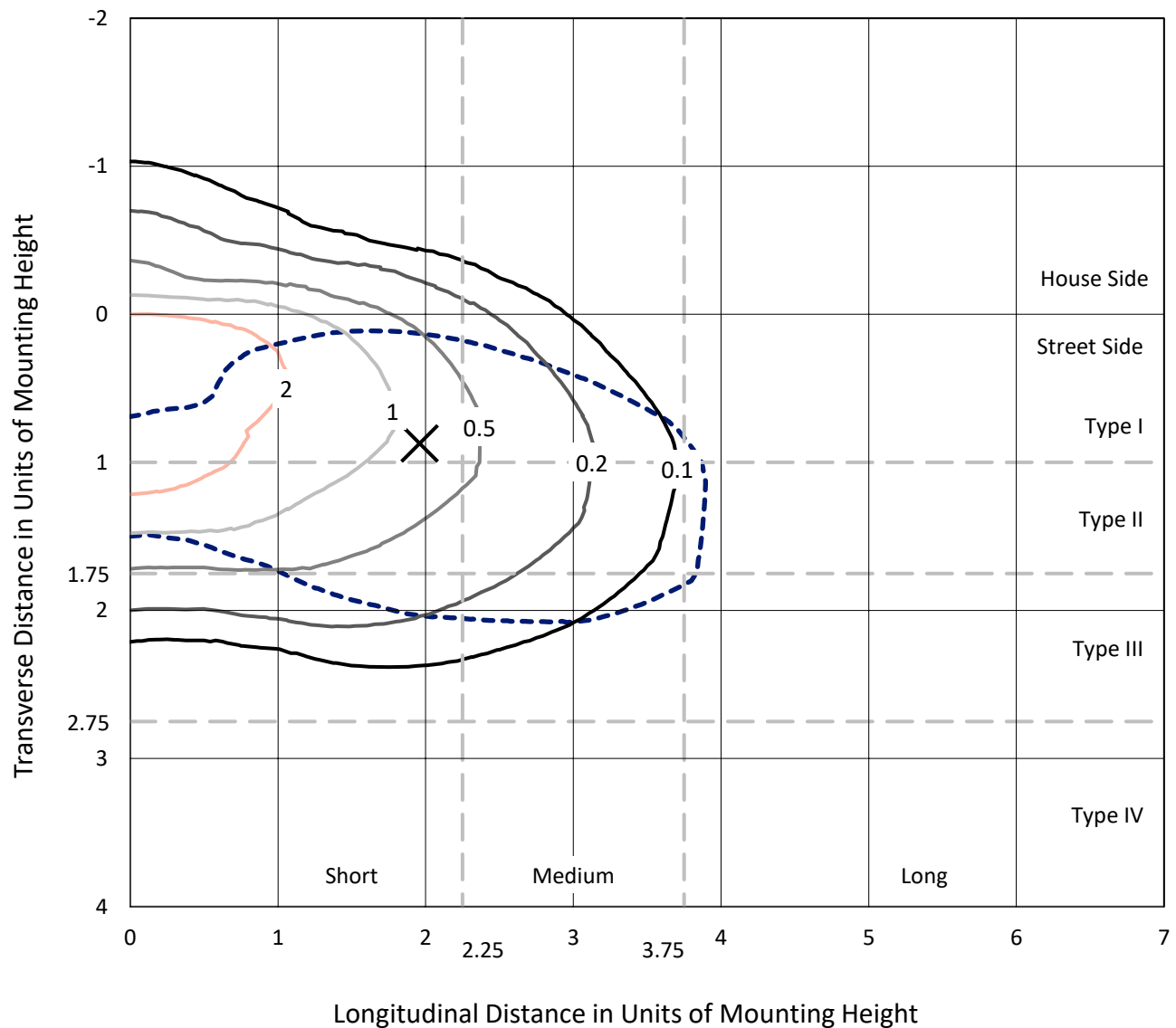


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

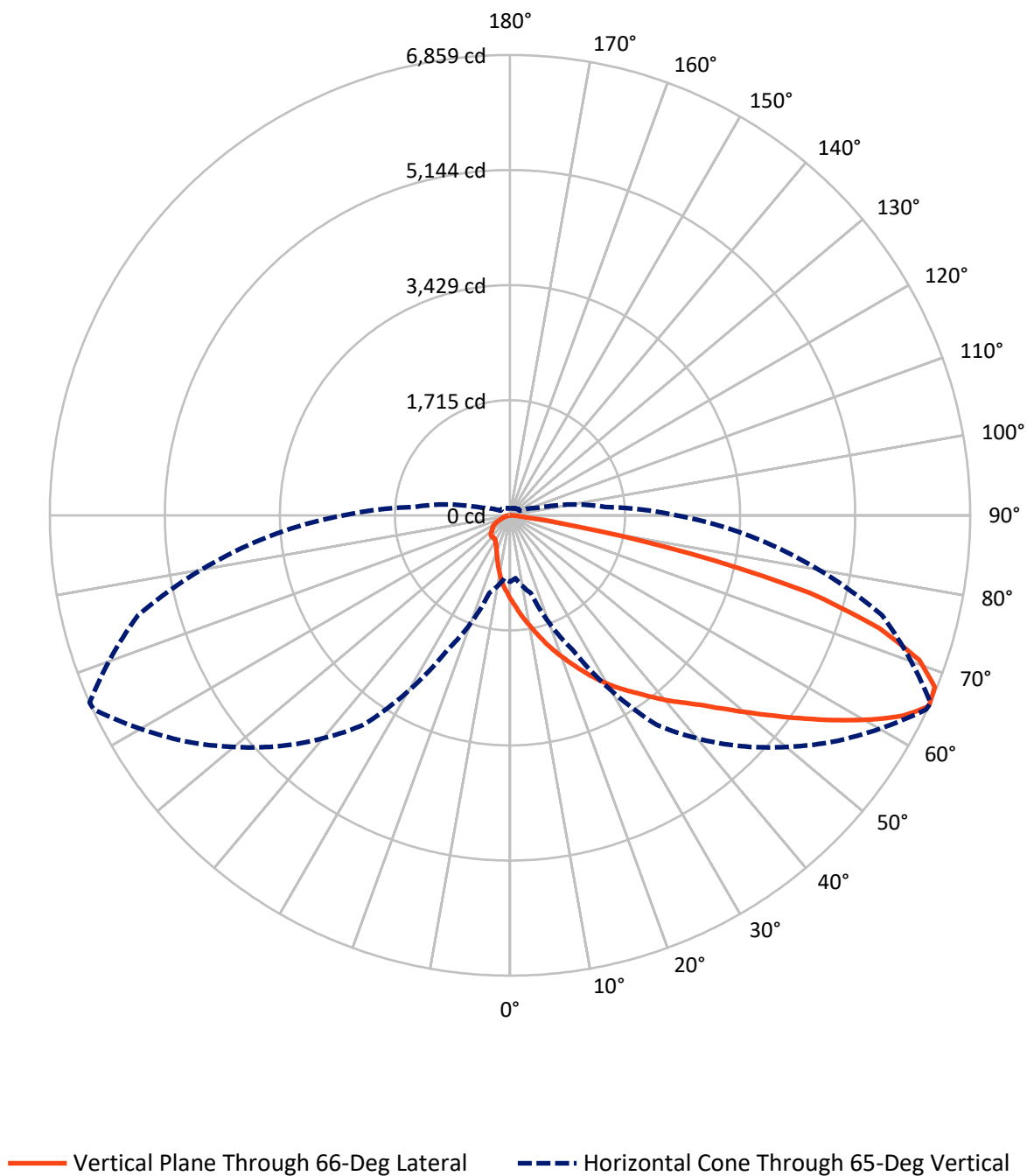


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.5	0.0	998.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8441.5	0.0	8441.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	9440.0	0.0	9440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.3
10°-20°	401.9	4.3
20°-30°	727.2	7.7
30°-40°	1137.1	12.0
40°-50°	1725.0	18.3
50°-60°	2191.6	23.2
60°-70°	2047.8	21.7
70°-80°	1017.8	10.8
80°-90°	68.4	0.7
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°	9440.0	100.0
0°-180°	9440.0	100.0

Coefficient of Utilization



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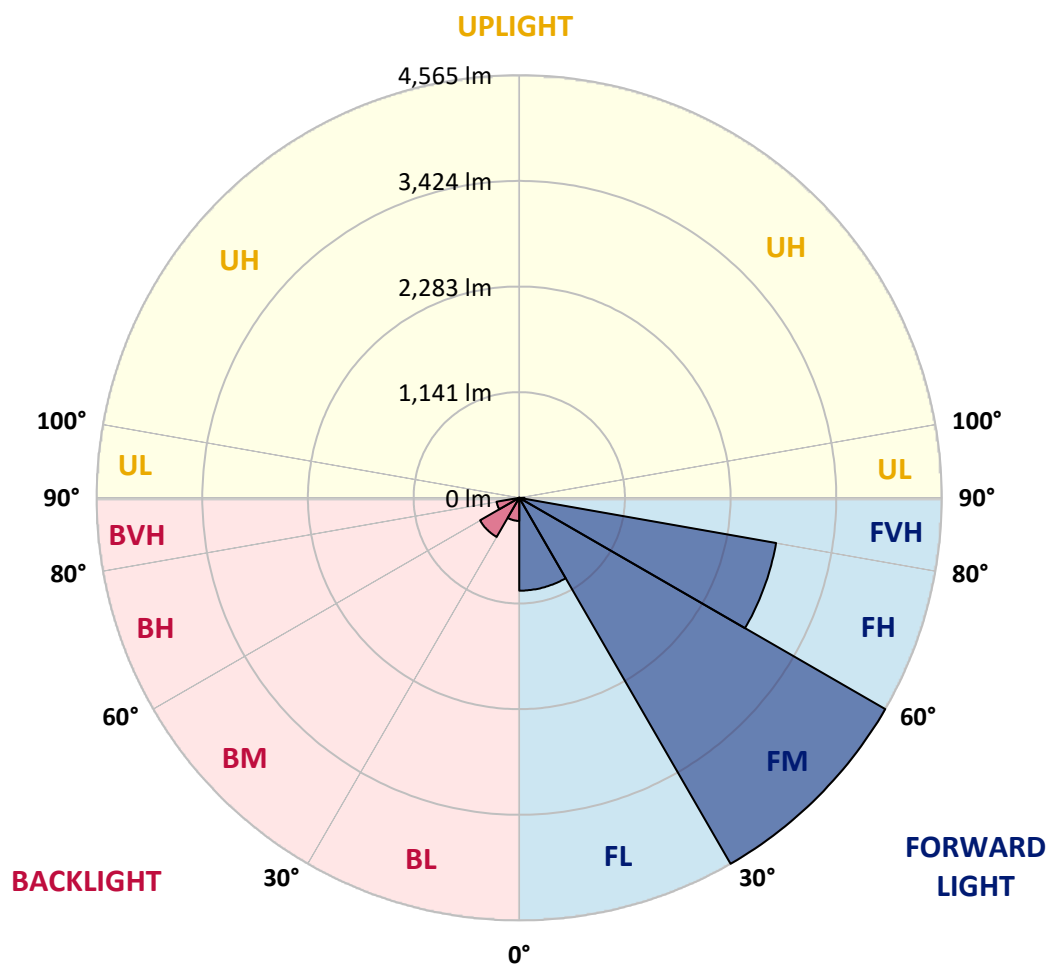
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1003.0	10.6			
FM	(30°-60°)	4565.3	48.4			
FH	(60°-80°)	2816.9	29.8			G2/5000
FVH	(80°-90°)	56.3	0.6			G1/100
BL	(0°-30°)	249.4	2.6	B1/500		
BM	(30°-60°)	488.4	5.2	B1/1000		
BH	(60°-80°)	248.7	2.6	B1/500		G1/500
BVH	(80°-90°)	12.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3
2.5°	1459.2	1471.1	1477.0	1479.0	1433.5	1413.7	1393.9	1348.3	1338.4	1312.7	1279.0
5°	1716.6	1732.4	1728.5	1720.6	1665.1	1601.8	1550.3	1465.1	1451.3	1389.9	1314.7
7.5°	1970.0	1983.9	1979.9	1950.2	1888.8	1799.8	1714.6	1589.9	1570.1	1471.1	1350.3
10°	2181.9	2193.8	2191.8	2162.1	2088.8	1979.9	1877.0	1710.7	1686.9	1546.3	1380.0
12.5°	2356.1	2371.9	2370.0	2350.2	2284.8	2166.0	2049.2	1849.2	1819.6	1637.4	1421.6
15°	2492.7	2512.5	2512.5	2504.6	2459.1	2360.1	2227.4	2001.7	1966.1	1742.3	1473.1
17.5°	2575.9	2591.7	2605.6	2619.4	2587.8	2512.5	2391.7	2154.2	2116.5	1845.3	1526.5
20°	2619.4	2635.3	2645.2	2674.9	2680.8	2643.2	2548.2	2304.6	2265.0	1962.1	1587.9
22.5°	2690.7	2704.6	2706.6	2732.3	2744.2	2754.1	2694.7	2453.1	2421.4	2090.8	1657.2
25°	2809.5	2825.4	2819.4	2831.3	2833.3	2845.2	2839.2	2623.4	2591.7	2237.3	1740.4
27.5°	2962.0	2981.8	2977.8	2965.9	2948.1	2938.2	2963.9	2795.7	2766.0	2383.8	1825.5
30°	3126.3	3150.1	3144.1	3120.4	3072.8	3031.3	3066.9	2958.0	2930.3	2534.3	1920.5
32.5°	3292.6	3320.3	3318.4	3278.8	3197.6	3126.3	3179.8	3110.5	3090.7	2696.7	2023.5
35°	3401.5	3437.1	3433.2	3409.4	3304.5	3243.1	3308.5	3266.9	3253.0	2894.6	2172.0
37.5°	3577.7	3615.3	3581.7	3522.3	3401.5	3369.8	3449.0	3443.1	3433.2	3104.5	2328.4
40°	4005.4	4060.8	3971.7	3728.2	3530.2	3502.5	3615.3	3639.1	3629.2	3312.4	2469.0
42.5°	4452.8	4536.0	4397.4	4060.8	3763.8	3662.9	3797.5	3831.2	3819.3	3490.6	2595.7
45°	4724.1	4759.7	4621.1	4359.8	4177.6	3856.9	3991.5	4047.0	4037.1	3704.4	2758.0
47.5°	4945.9	4932.0	4773.6	4597.4	4631.0	4130.1	4211.3	4320.2	4312.3	3940.0	2936.2
50°	4993.4	4961.7	4898.3	4787.5	4876.6	4407.3	4443.0	4631.0	4623.1	4201.4	3116.4
52.5°	4658.8	4617.2	4789.4	4882.5	4852.8	4609.3	4698.4	4971.6	4967.6	4484.5	3288.7
55°	3823.2	3789.6	4252.9	4734.0	4827.1	4751.8	4981.5	5326.0	5347.8	4785.5	3445.1
57.5°	3007.5	2971.9	3427.2	4361.8	4732.0	4882.5	5312.1	5731.9	5759.6	5112.2	3593.6
60°	2397.7	2344.2	2692.7	3775.7	4553.8	4983.5	5630.9	6177.4	6181.3	5411.1	3684.6
62.5°	1629.5	1570.1	1956.2	3033.2	4254.9	4999.3	5876.4	6561.5	6577.3	5634.9	3700.5
65°	990.0	940.5	1201.8	2215.5	3813.3	4864.7	5880.4	6844.6	6858.5	5737.8	3605.4
67.5°	574.2	554.4	687.0	1380.0	3080.8	4502.3	5632.9	6801.0	6826.8	5694.3	3389.6
70°	334.6	332.6	382.1	683.1	2174.0	3783.6	5080.5	6434.8	6472.4	5466.6	3059.0
72.5°	245.5	249.5	269.3	366.3	1259.2	2724.4	4302.4	5698.2	5755.6	5021.1	2587.8
75°	194.0	196.0	213.8	249.5	661.3	1540.4	3223.3	4573.6	4619.2	4227.1	2021.5
77.5°	144.5	148.5	162.4	176.2	306.9	706.8	1813.6	2817.4	2742.2	2320.5	976.1
80°	104.9	114.8	120.8	126.7	162.4	273.2	544.5	982.0	974.1	1013.7	461.3
82.5°	67.3	75.2	81.2	85.1	97.0	130.7	162.4	219.8	237.6	394.0	184.1
85°	29.7	33.7	37.6	45.5	41.6	45.5	67.3	43.6	37.6	59.4	33.7
87.5°	0.0	0.0	5.9	9.9	7.9	4.0	11.9	7.9	5.9	5.9	5.9
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°	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3	1249.3
2.5°	1261.2	1239.4	1193.9	1150.3	1124.6	1090.9	1061.2	1033.5	1031.5	1023.6	1009.8
5°	1277.1	1235.5	1150.3	1069.2	1007.8	942.4	887.0	843.4	827.6	815.7	799.9
7.5°	1292.9	1227.6	1100.8	982.0	885.0	793.9	728.6	669.2	651.4	635.6	625.7
10°	1298.8	1213.7	1043.4	885.0	758.3	661.3	592.0	548.4	532.6	524.7	518.7
12.5°	1316.6	1205.8	990.0	793.9	647.4	558.3	508.8	483.1	477.2	471.2	465.3
15°	1340.4	1205.8	936.5	704.9	560.3	489.0	459.3	441.5	437.6	435.6	431.6
17.5°	1366.1	1205.8	885.0	629.6	497.0	443.5	421.7	411.8	409.8	407.9	405.9
20°	1401.8	1207.8	829.6	564.3	451.4	409.8	392.0	380.1	378.2	376.2	376.2
22.5°	1437.4	1211.7	776.1	514.8	421.7	384.1	362.3	350.4	346.5	346.5	346.5
25°	1483.0	1223.6	726.6	473.2	396.0	360.3	332.6	322.7	320.7	320.7	318.8
27.5°	1536.4	1237.5	683.1	441.5	370.2	332.6	304.9	295.0	291.0	291.0	289.1
30°	1593.8	1251.3	647.4	417.8	344.5	304.9	279.2	267.3	263.3	265.3	263.3
32.5°	1657.2	1271.1	619.7	401.9	320.7	281.1	257.4	243.5	241.6	241.6	239.6
35°	1764.1	1326.5	615.8	394.0	300.9	263.3	239.6	225.7	223.7	223.7	221.8
37.5°	1878.9	1389.9	633.6	390.0	285.1	247.5	225.7	211.9	209.9	209.9	209.9
40°	1976.0	1437.4	653.4	390.0	275.2	233.6	213.8	202.0	202.0	202.0	202.0
42.5°	2041.3	1441.4	649.4	390.0	267.3	223.7	205.9	194.0	194.0	196.0	194.0
45°	2138.3	1461.2	633.6	384.1	261.4	215.8	198.0	188.1	186.1	188.1	188.1
47.5°	2253.2	1496.8	617.7	360.3	259.4	207.9	192.1	180.2	178.2	180.2	178.2
50°	2362.0	1528.5	609.8	328.7	255.4	200.0	184.1	172.3	170.3	172.3	170.3
52.5°	2453.1	1542.4	596.0	306.9	245.5	192.1	176.2	164.3	160.4	162.4	162.4
55°	2526.4	1538.4	576.2	289.1	227.7	184.1	166.3	156.4	150.5	150.5	148.5
57.5°	2593.7	1540.4	558.3	271.2	207.9	172.3	158.4	146.5	138.6	136.6	134.6
60°	2619.4	1530.5	526.7	247.5	188.1	162.4	148.5	134.6	126.7	124.7	122.8
62.5°	2583.8	1494.8	485.1	205.9	170.3	150.5	138.6	124.7	116.8	114.8	112.9
65°	2482.8	1427.5	421.7	162.4	154.4	136.6	126.7	116.8	106.9	103.0	101.0
67.5°	2310.6	1330.5	342.5	130.7	136.6	124.7	118.8	106.9	95.0	91.1	89.1
70°	2065.1	1201.8	257.4	110.9	120.8	110.9	106.9	95.0	85.1	81.2	79.2
72.5°	1720.6	993.9	180.2	95.0	104.9	97.0	93.1	85.1	75.2	69.3	69.3
75°	1300.8	712.8	118.8	81.2	87.1	83.2	77.2	71.3	65.3	61.4	59.4
77.5°	560.3	277.2	73.3	61.4	71.3	69.3	61.4	57.4	55.4	51.5	51.5
80°	241.6	112.9	45.5	45.5	51.5	49.5	47.5	43.6	43.6	41.6	39.6
82.5°	89.1	45.5	27.7	33.7	37.6	33.7	33.7	33.7	33.7	31.7	31.7
85°	21.8	13.9	13.9	19.8	21.8	19.8	21.8	19.8	19.8	19.8	17.8
87.5°	5.9	5.9	7.9	7.9	7.9	7.9	7.9	5.9	0.0	0.0	0.0
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)