

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: P840859

Luminaire Tested: **ARCH4-100-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10748 lumens
Efficiency: N/A
Efficacy: 104.2 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

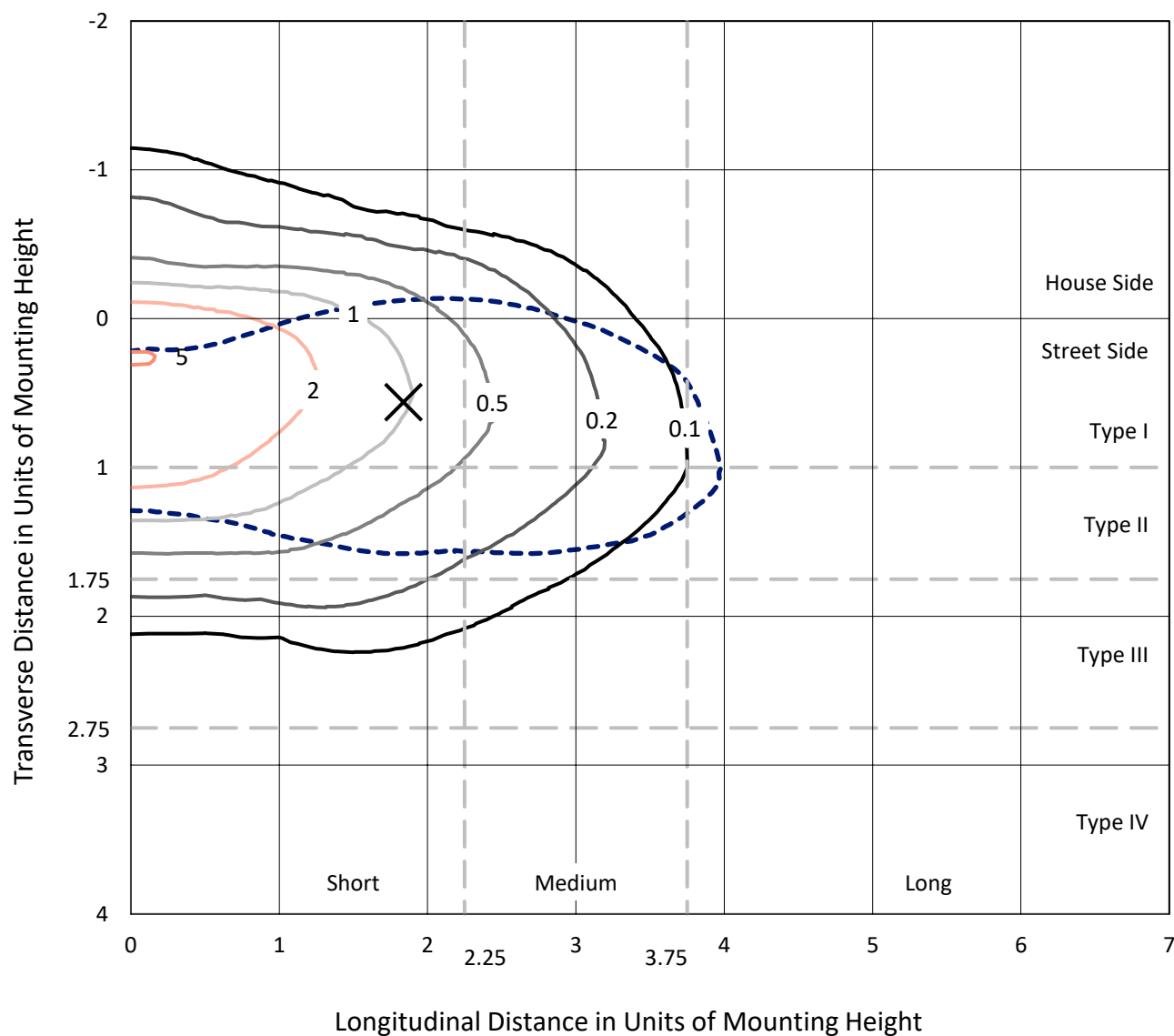
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

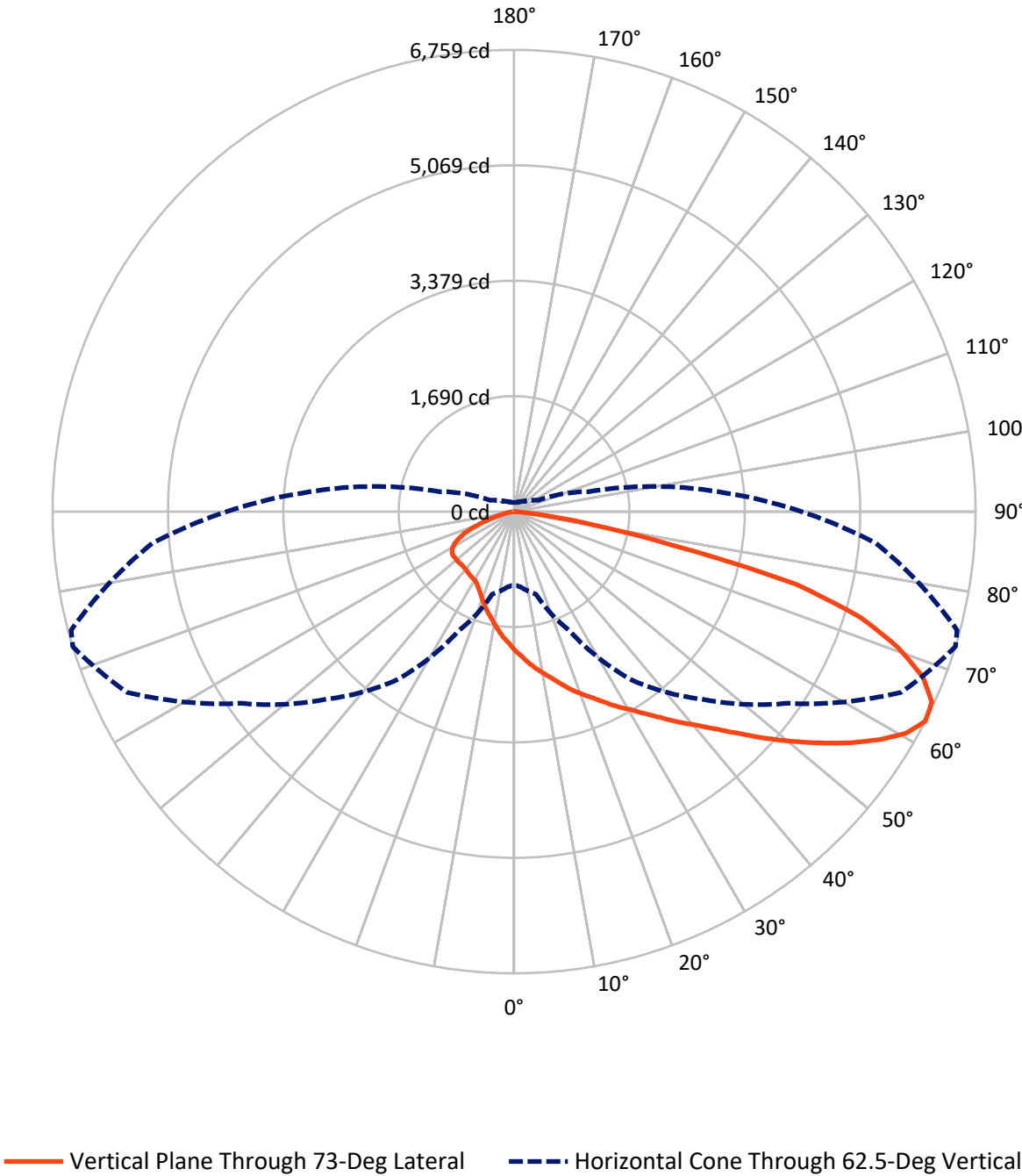
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1666.1	0.0	1666.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	9081.9	0.0	9081.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	10748.0	0.0	10748.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.8
10°-20°	593.3	5.5
20°-30°	987.5	9.2
30°-40°	1490.0	13.9
40°-50°	2082.7	19.4
50°-60°	2300.4	21.4
60°-70°	2004.0	18.6
70°-80°	1012.3	9.4
80°-90°	81.3	0.8
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°	10748.0	100.0
0°-180°	10748.0	100.0

Coefficient of Utilization



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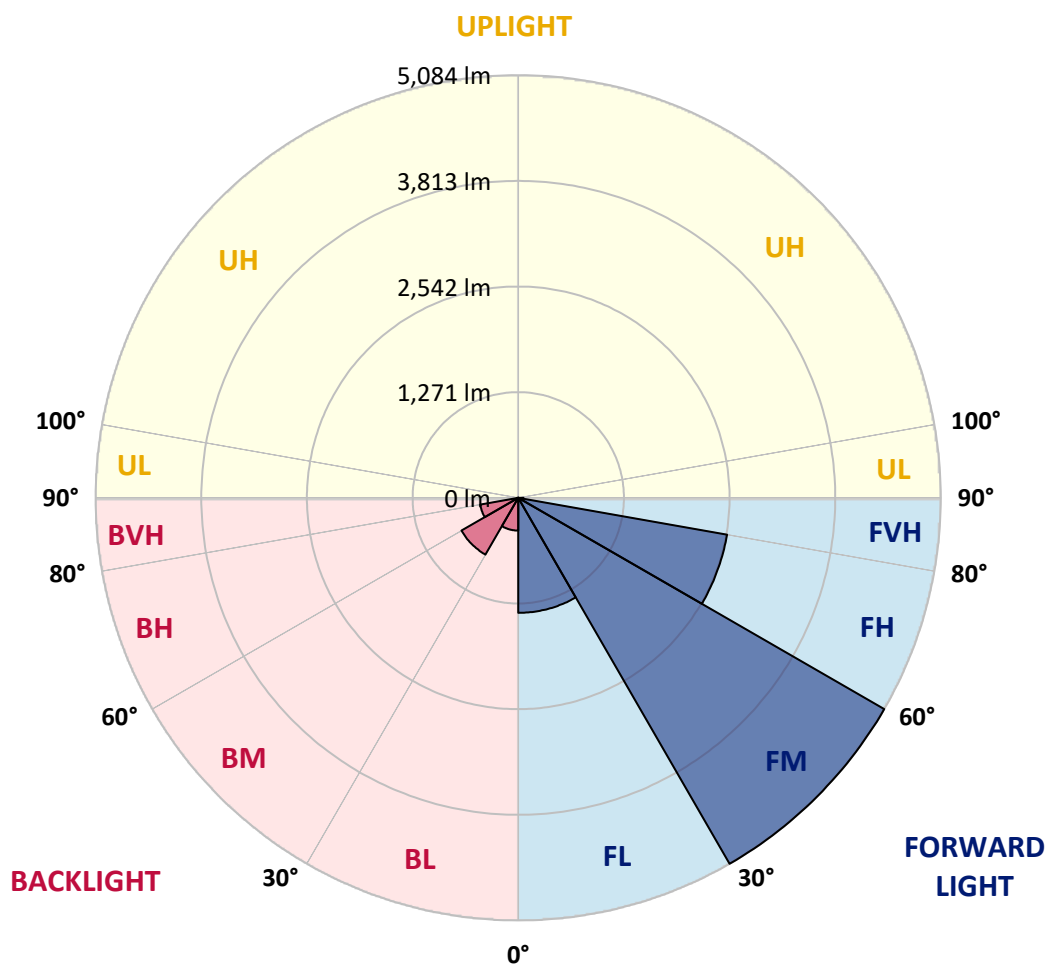
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.6	12.9			
FM	(30°-60°)	5084.2	47.3			
FH	(60°-80°)	2551.2	23.7			G2/5000
FVH	(80°-90°)	62.9	0.6			G1/100
BL	(0°-30°)	393.8	3.7	B1/500		
BM	(30°-60°)	788.9	7.3	B1/1000		
BH	(60°-80°)	465.0	4.3	B1/500		G1/500
BVH	(80°-90°)	18.4	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2
2.5°	2316.2	2342.0	2327.9	2337.3	2290.4	2260.0	2224.9	2156.9	2119.5	2114.8	2070.3
5°	2655.8	2683.9	2660.5	2653.4	2571.5	2501.2	2421.6	2302.1	2222.5	2208.5	2110.1
7.5°	2995.4	3021.1	2993.0	2971.9	2861.9	2737.7	2620.6	2445.0	2320.9	2297.5	2142.9
10°	3234.2	3257.7	3236.6	3215.5	3100.7	2974.3	2808.0	2578.5	2409.9	2372.4	2164.0
12.5°	3414.6	3428.6	3419.3	3400.5	3292.8	3157.0	2997.7	2728.4	2510.6	2463.7	2196.8
15°	3562.1	3585.5	3573.8	3559.8	3456.7	3320.9	3168.7	2885.3	2627.7	2569.1	2245.9
17.5°	3660.5	3676.9	3679.2	3679.2	3587.9	3454.4	3306.8	3028.1	2744.8	2669.8	2292.8
20°	3705.0	3723.7	3735.4	3754.1	3679.2	3564.5	3414.6	3149.9	2854.8	2770.5	2337.3
22.5°	3726.0	3742.4	3772.9	3815.0	3754.1	3658.1	3520.0	3262.3	2964.9	2875.9	2388.8
25°	3742.4	3763.5	3808.0	3887.6	3845.5	3763.5	3644.1	3391.1	3096.1	3004.7	2463.7
27.5°	3786.9	3812.7	3854.9	3950.9	3899.4	3859.5	3775.2	3529.3	3234.2	3140.6	2555.1
30°	3941.5	3962.6	3960.2	4021.1	3957.9	3946.2	3887.6	3662.8	3367.7	3274.0	2662.8
32.5°	4222.5	4243.6	4192.1	4168.7	4030.5	4032.8	4009.4	3805.7	3527.0	3431.0	2786.9
35°	4524.7	4548.1	4480.2	4440.3	4208.5	4140.6	4152.3	3983.7	3705.0	3608.9	2941.5
37.5°	4794.0	4822.1	4763.5	4705.0	4470.8	4313.9	4311.5	4182.7	3908.7	3810.4	3112.5
40°	4941.5	4974.3	5009.4	4976.6	4730.7	4557.4	4482.5	4386.5	4110.1	4009.4	3297.5
42.5°	5011.8	5103.1	5166.3	5145.3	4943.9	4768.2	4679.2	4599.6	4356.0	4257.7	3517.6
45°	4815.1	4817.4	4950.9	5065.6	5028.2	4911.1	4894.7	4838.5	4637.1	4543.4	3765.9
47.5°	4569.1	4550.4	4644.1	4847.8	4953.2	4983.7	5079.7	5103.1	4957.9	4864.2	4018.8
50°	3979.0	3990.7	4295.1	4587.9	4794.0	4990.7	5210.8	5374.8	5288.1	5199.1	4285.8
52.5°	3236.6	3264.7	3613.6	4257.7	4583.2	4920.4	5288.1	5646.4	5625.4	5541.1	4552.8
55°	2594.9	2639.4	3009.4	3707.3	4313.9	4763.5	5320.9	5894.7	5974.3	5897.0	4815.1
57.5°	1983.6	2030.5	2342.0	3058.6	3969.6	4508.3	5297.5	6112.5	6299.9	6250.7	5056.3
60°	1494.2	1541.0	1740.1	2480.1	3538.7	4222.5	5180.4	6255.4	6592.6	6541.1	5231.9
62.5°	1070.3	1107.7	1255.3	1929.8	3014.1	3883.0	4892.3	6257.7	6758.9	6716.7	5316.2
65°	770.5	770.5	889.9	1377.1	2522.3	3475.5	4456.7	5969.6	6723.7	6712.0	5257.7
67.5°	555.0	559.7	655.7	962.5	2011.7	2981.3	3892.3	5456.7	6452.1	6510.6	5046.9
70°	393.4	405.2	449.7	672.1	1519.9	2353.7	3288.1	4784.6	5962.6	6065.7	4639.4
72.5°	304.5	311.5	341.9	468.4	1110.1	1749.4	2620.6	4035.2	5309.2	5426.3	4084.4
75°	234.2	241.2	264.6	344.3	796.3	1227.2	1861.9	3131.2	4281.1	4489.5	3281.1
77.5°	171.0	180.3	196.7	250.6	463.7	779.9	1128.8	1761.1	2363.0	2461.4	1719.0
80°	79.6	91.3	114.8	161.6	250.6	367.7	400.5	679.2	1135.8	1187.4	932.1
82.5°	44.5	56.2	65.6	98.4	126.5	131.1	135.8	171.0	428.6	473.1	391.1
85°	21.1	28.1	30.4	42.2	42.2	37.5	44.5	32.8	70.3	84.3	82.0
87.5°	0.0	2.3	4.7	11.7	9.4	7.0	7.0	7.0	7.0	9.4	7.0
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°	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2	2035.2
2.5°	2049.2	2018.8	1948.5	1887.6	1847.8	1812.7	1765.8	1744.8	1707.3	1714.3	1693.2
5°	2060.9	2004.7	1880.6	1765.8	1681.5	1606.6	1524.6	1477.8	1426.2	1421.6	1405.2
7.5°	2067.9	1981.3	1803.3	1641.7	1512.9	1398.1	1288.1	1227.2	1164.0	1149.9	1135.8
10°	2060.9	1946.2	1723.7	1512.9	1341.9	1199.1	1075.0	997.7	932.1	915.7	901.7
12.5°	2067.9	1927.4	1648.7	1393.5	1189.7	1028.1	887.6	808.0	747.1	730.7	721.3
15°	2084.3	1915.7	1585.5	1285.7	1053.9	873.5	735.4	667.5	618.3	601.9	597.2
17.5°	2098.4	1904.0	1517.6	1180.3	918.0	737.7	618.3	562.1	519.9	503.5	498.8
20°	2117.1	1887.6	1449.7	1079.6	798.6	630.0	524.6	475.4	442.6	430.9	428.6
22.5°	2133.5	1875.9	1386.4	978.9	688.5	543.3	454.3	414.5	391.1	379.4	379.4
25°	2175.7	1880.6	1332.6	885.3	606.6	475.4	400.5	370.0	351.3	344.3	344.3
27.5°	2224.9	1899.3	1290.4	805.6	536.3	423.9	363.0	337.2	327.9	318.5	320.8
30°	2295.1	1936.8	1262.3	740.1	484.8	384.1	332.6	313.8	304.5	302.1	302.1
32.5°	2384.1	1997.7	1260.0	697.9	447.3	353.6	311.5	295.1	290.4	288.1	288.1
35°	2489.5	2051.6	1245.9	679.2	423.9	332.6	295.1	283.4	281.0	281.0	281.0
37.5°	2616.0	2140.5	1236.6	653.4	412.2	320.8	283.4	274.0	274.0	274.0	274.0
40°	2747.1	2213.1	1222.5	630.0	407.5	313.8	276.4	264.6	264.6	264.6	264.6
42.5°	2904.0	2318.5	1217.8	618.3	400.5	309.1	267.0	252.9	255.3	255.3	257.6
45°	3093.7	2438.0	1215.5	606.6	398.1	304.5	257.6	241.2	243.6	241.2	241.2
47.5°	3285.8	2576.1	1222.5	599.5	395.8	299.8	250.6	229.5	229.5	227.2	227.2
50°	3487.2	2702.6	1227.2	592.5	391.1	290.4	238.9	220.1	215.5	210.8	213.1
52.5°	3676.9	2819.7	1229.5	580.8	377.1	276.4	229.5	208.4	201.4	194.4	196.7
55°	3866.6	2932.1	1234.2	566.8	358.3	262.3	217.8	196.7	187.4	178.0	178.0
57.5°	4037.5	3030.5	1222.5	531.6	337.2	248.2	206.1	182.7	168.6	159.3	159.3
60°	4154.6	3100.7	1187.4	480.1	309.1	231.9	194.4	168.6	152.2	145.2	145.2
62.5°	4210.8	3112.5	1124.1	395.8	274.0	215.5	180.3	154.6	140.5	135.8	135.8
65°	4157.0	3060.9	1025.8	297.4	236.5	196.7	166.3	142.9	128.8	117.1	117.1
67.5°	3969.6	2915.7	889.9	224.8	201.4	178.0	152.2	131.1	114.8	105.4	105.4
70°	3592.6	2613.6	688.5	180.3	171.0	154.6	138.2	117.1	103.0	91.3	91.3
72.5°	3098.4	2215.5	484.8	145.2	145.2	131.1	117.1	103.0	89.0	79.6	79.6
75°	2377.1	1639.4	325.5	117.1	119.4	110.1	96.0	84.3	74.9	67.9	67.9
77.5°	1297.4	810.3	199.1	86.7	89.0	84.3	74.9	67.9	63.2	56.2	56.2
80°	630.0	356.0	114.8	60.9	63.2	60.9	56.2	49.2	49.2	44.5	44.5
82.5°	264.6	133.5	60.9	42.2	42.2	37.5	35.1	35.1	35.1	32.8	32.8
85°	65.6	25.8	25.8	23.4	23.4	23.4	21.1	21.1	21.1	16.4	18.7
87.5°	9.4	9.4	9.4	9.4	9.4	9.4	7.0	2.3	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)