

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: P841941

Luminaire Tested: **ARCH4-250-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841941
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: ARCH4-250-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA 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: 21803 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.5
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



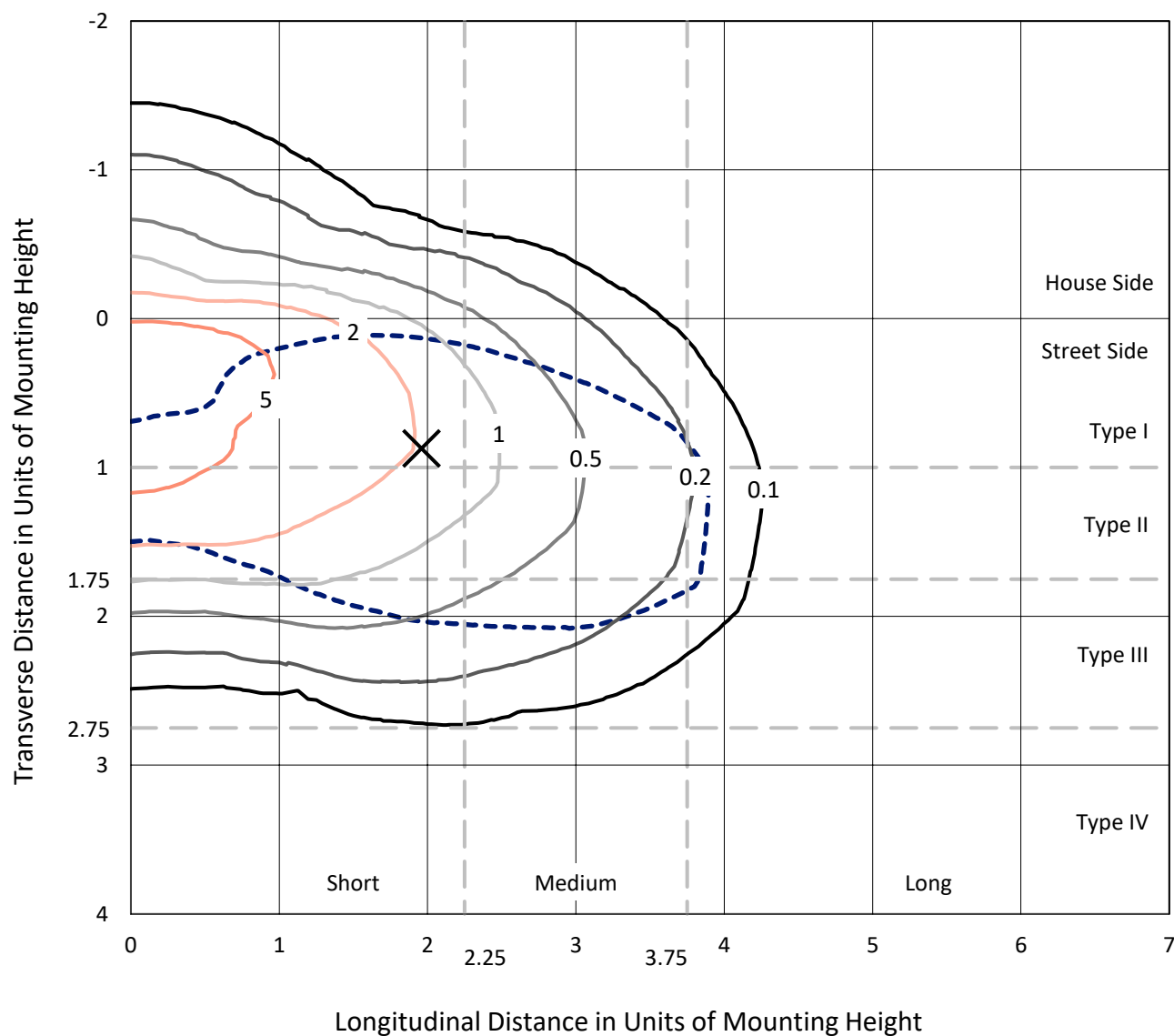
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

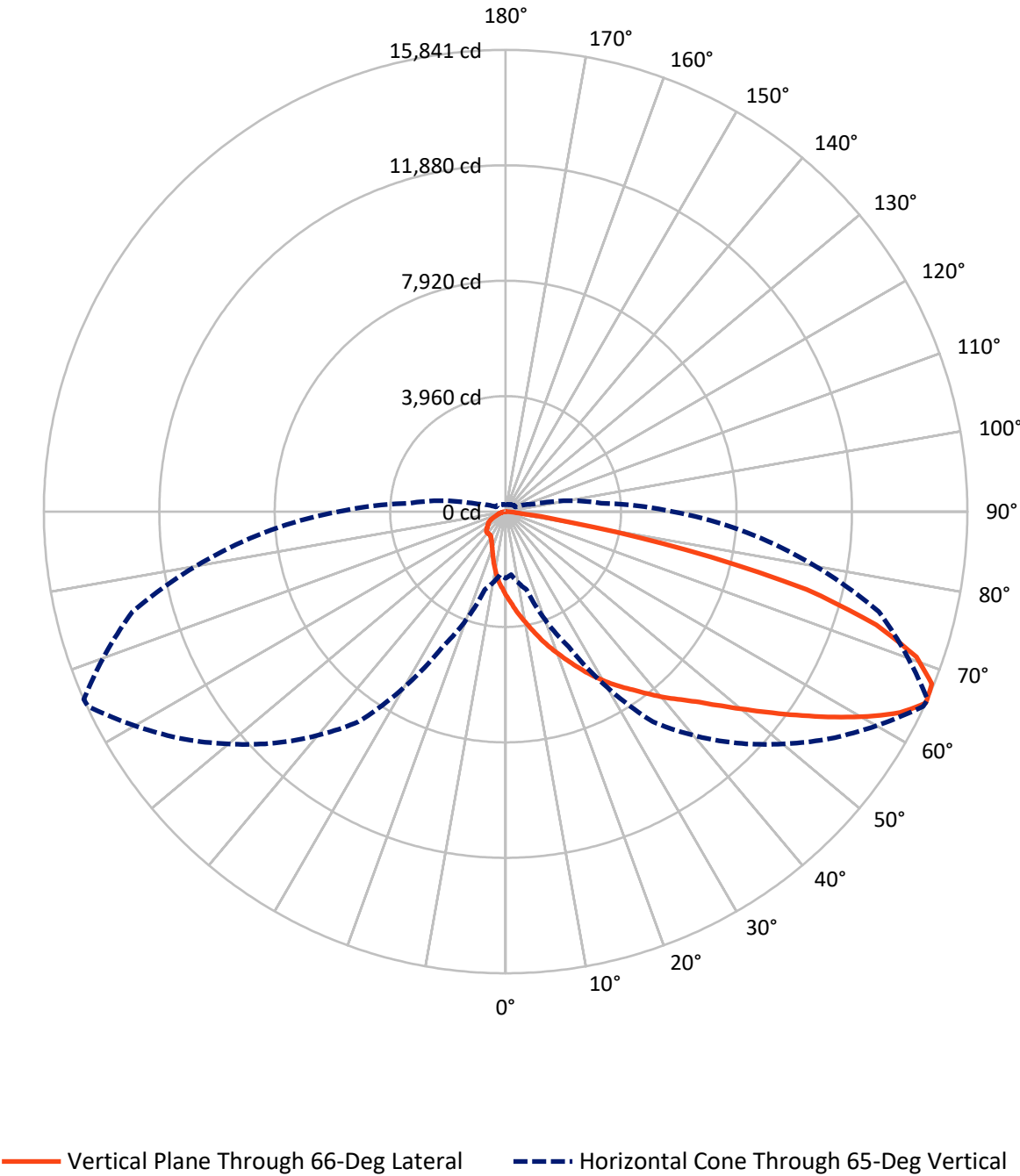


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc

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	2306.2	0.0	2306.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	19496.8	0.0	19496.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	21803.0	0.0	21803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	1.3
10°-20°	928.2	4.3
20°-30°	1679.5	7.7
30°-40°	2626.3	12.0
40°-50°	3984.0	18.3
50°-60°	5061.8	23.2
60°-70°	4729.8	21.7
70°-80°	2350.7	10.8
80°-90°	157.9	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°	21803.0	100.0
0°-180°	21803.0	100.0

Coefficient of Utilization



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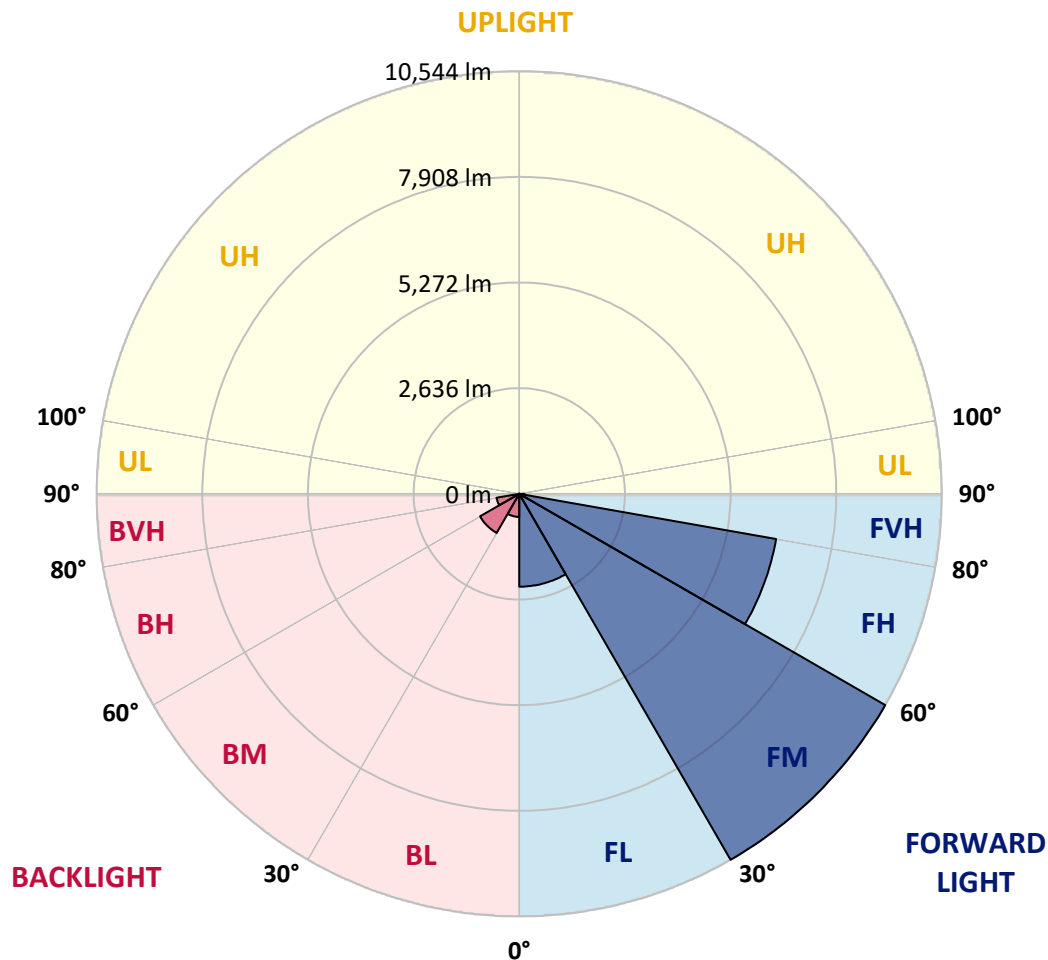
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2316.6	10.6			
FM	(30°-60°)	10544.2	48.4			
FH	(60°-80°)	6506.1	29.8			G3/7500
FVH	(80°-90°)	130.0	0.6			G2/225
BL	(0°-30°)	576.0	2.6	B2/1000		
BM	(30°-60°)	1127.9	5.2	B2/2500		
BH	(60°-80°)	574.3	2.6	B2/1000		G2/1000
BVH	(80°-90°)	28.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	3370.2	3397.7	3411.4	3416.0	3310.8	3265.1	3219.3	3114.2	3091.3	3031.8	2954.1
5°	3964.7	4001.3	3992.2	3973.9	3845.8	3699.5	3580.6	3384.0	3351.9	3210.2	3036.4
7.5°	4550.0	4582.1	4572.9	4504.3	4362.6	4156.8	3960.1	3672.0	3626.3	3397.7	3118.7
10°	5039.3	5066.8	5062.2	4993.6	4824.4	4572.9	4335.1	3951.0	3896.1	3571.4	3187.3
12.5°	5441.8	5478.3	5473.8	5428.0	5277.1	5002.8	4733.0	4271.1	4202.5	3781.8	3283.4
15°	5757.3	5803.0	5803.0	5784.7	5679.6	5450.9	5144.5	4623.2	4540.9	4024.2	3402.2
17.5°	5949.4	5985.9	6018.0	6050.0	5976.8	5803.0	5524.1	4975.3	4888.4	4262.0	3525.7
20°	6050.0	6086.5	6109.4	6178.0	6191.7	6104.8	5885.3	5322.9	5231.4	4531.8	3667.5
22.5°	6214.6	6246.6	6251.2	6310.6	6338.1	6360.9	6223.7	5665.8	5592.7	4829.0	3827.5
25°	6489.0	6525.5	6511.8	6539.3	6543.8	6571.3	6557.6	6059.1	5985.9	5167.4	4019.6
27.5°	6841.1	6886.8	6877.7	6850.2	6809.1	6786.2	6845.6	6457.0	6388.4	5505.8	4216.2
30°	7220.6	7275.5	7261.8	7206.9	7097.2	7001.1	7083.4	6831.9	6767.9	5853.3	4435.7
32.5°	7604.8	7668.8	7664.2	7572.7	7385.3	7220.6	7344.1	7184.0	7138.3	6228.3	4673.5
35°	7856.3	7938.6	7929.4	7874.6	7632.2	7490.4	7641.3	7545.3	7513.3	6685.6	5016.5
37.5°	8263.3	8350.1	8272.4	8135.2	7856.3	7783.1	7966.0	7952.3	7929.4	7170.3	5377.7
40°	9251.0	9379.0	9173.3	8610.8	8153.5	8089.5	8350.1	8405.0	8382.1	7650.5	5702.4
42.5°	10284.5	10476.5	10156.4	9379.0	8693.1	8459.9	8770.8	8848.6	8821.1	8062.0	5995.1
45°	10911.0	10993.3	10673.2	10069.6	9648.8	8908.0	9219.0	9347.0	9324.2	8555.9	6370.1
47.5°	11423.1	11391.1	11025.3	10618.3	10696.0	9539.1	9726.6	9978.1	9959.8	9100.1	6781.6
50°	11532.9	11459.7	11313.4	11057.3	11263.1	10179.3	10261.6	10696.0	10677.7	9703.7	7197.8
52.5°	10760.1	10664.0	11061.9	11276.8	11208.2	10645.7	10851.5	11482.6	11473.4	10357.6	7595.6
55°	8830.3	8752.6	9822.6	10933.8	11148.8	10975.0	11505.4	12301.1	12351.4	11052.7	7956.9
57.5°	6946.3	6863.9	7915.7	10074.1	10929.3	11276.8	12269.1	13238.6	13302.6	11807.3	8299.8
60°	5537.8	5414.3	6219.2	8720.5	10517.7	11510.0	13005.4	14267.5	14276.6	12497.8	8510.2
62.5°	3763.5	3626.3	4518.0	7005.7	9827.2	11546.6	13572.4	15154.6	15191.2	13014.5	8546.8
65°	2286.5	2172.1	2775.8	5117.1	8807.4	11235.6	13581.5	15808.6	15840.6	13252.3	8327.3
67.5°	1326.1	1280.4	1586.8	3187.3	7115.5	10398.8	13009.9	15708.0	15767.4	13151.7	7828.8
70°	772.8	768.2	882.6	1577.7	5021.1	8738.8	11734.1	14862.0	14948.8	12625.8	7065.1
72.5°	567.0	576.2	621.9	846.0	2908.4	6292.3	9936.9	13160.8	13293.5	11596.9	5976.8
75°	448.1	452.7	493.9	576.2	1527.4	3557.7	7444.7	10563.4	10668.6	9763.2	4668.9
77.5°	333.8	343.0	375.0	407.0	708.8	1632.5	4188.8	6507.3	6333.5	5359.5	2254.4
80°	242.4	265.2	278.9	292.7	375.0	631.1	1257.6	2268.2	2249.9	2341.3	1065.5
82.5°	155.5	173.8	187.5	196.6	224.1	301.8	375.0	507.6	548.7	910.0	425.3
85°	68.6	77.7	86.9	105.2	96.0	105.2	155.5	100.6	86.9	137.2	77.7
87.5°	0.0	0.0	13.7	22.9	18.3	9.1	27.4	18.3	13.7	13.7	13.7
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°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2912.9	2862.6	2757.5	2656.9	2597.4	2519.7	2451.1	2387.1	2382.5	2364.2	2332.2
5°	2949.5	2853.5	2656.9	2469.4	2327.6	2176.7	2048.7	1948.1	1911.5	1884.0	1847.5
7.5°	2986.1	2835.2	2542.5	2268.2	2044.1	1833.7	1682.8	1545.6	1504.5	1467.9	1445.0
10°	2999.8	2803.2	2409.9	2044.1	1751.4	1527.4	1367.3	1266.7	1230.1	1211.8	1198.1
12.5°	3041.0	2784.9	2286.5	1833.7	1495.3	1289.6	1175.2	1115.8	1102.1	1088.4	1074.6
15°	3095.9	2784.9	2163.0	1628.0	1294.1	1129.5	1060.9	1019.8	1010.6	1006.0	996.9
17.5°	3155.3	2784.9	2044.1	1454.2	1147.8	1024.3	974.0	951.2	946.6	942.0	937.4
20°	3237.6	2789.5	1916.1	1303.3	1042.6	946.6	905.4	878.0	873.4	868.9	868.9
22.5°	3319.9	2798.6	1792.6	1189.0	974.0	887.1	836.8	809.4	800.3	800.3	800.3
25°	3425.1	2826.1	1678.3	1092.9	914.6	832.3	768.2	745.4	740.8	740.8	736.2
27.5°	3548.6	2858.1	1577.7	1019.8	855.1	768.2	704.2	681.4	672.2	672.2	667.6
30°	3681.2	2890.1	1495.3	964.9	795.7	704.2	644.8	617.3	608.2	612.8	608.2
32.5°	3827.5	2935.8	1431.3	928.3	740.8	649.4	594.5	562.5	557.9	557.9	553.3
35°	4074.5	3063.9	1422.2	910.0	695.1	608.2	553.3	521.3	516.7	516.7	512.2
37.5°	4339.7	3210.2	1463.3	900.9	658.5	571.6	521.3	489.3	484.7	484.7	484.7
40°	4563.8	3319.9	1509.1	900.9	635.6	539.6	493.9	466.4	466.4	466.4	466.4
42.5°	4714.7	3329.1	1499.9	900.9	617.3	516.7	475.6	448.1	448.1	452.7	448.1
45°	4938.7	3374.8	1463.3	887.1	603.6	498.4	457.3	434.4	429.9	434.4	434.4
47.5°	5204.0	3457.1	1426.7	832.3	599.1	480.2	443.6	416.1	411.6	416.1	411.6
50°	5455.5	3530.3	1408.5	759.1	589.9	461.9	425.3	397.8	393.3	397.8	393.3
52.5°	5665.8	3562.3	1376.4	708.8	567.0	443.6	407.0	379.6	370.4	375.0	375.0
55°	5835.0	3553.2	1330.7	667.6	525.9	425.3	384.1	361.3	347.5	347.5	343.0
57.5°	5990.5	3557.7	1289.6	626.5	480.2	397.8	365.8	338.4	320.1	315.5	311.0
60°	6050.0	3534.9	1216.4	571.6	434.4	375.0	343.0	311.0	292.7	288.1	283.5
62.5°	5967.7	3452.5	1120.4	475.6	393.3	347.5	320.1	288.1	269.8	265.2	260.7
65°	5734.4	3297.1	974.0	375.0	356.7	315.5	292.7	269.8	246.9	237.8	233.2
67.5°	5336.6	3073.0	791.1	301.8	315.5	288.1	274.4	246.9	219.5	210.4	205.8
70°	4769.5	2775.8	594.5	256.1	278.9	256.1	246.9	219.5	196.6	187.5	182.9
72.5°	3973.9	2295.6	416.1	219.5	242.4	224.1	214.9	196.6	173.8	160.1	160.1
75°	3004.4	1646.2	274.4	187.5	201.2	192.1	178.3	164.6	150.9	141.8	137.2
77.5°	1294.1	640.2	169.2	141.8	164.6	160.1	141.8	132.6	128.0	118.9	118.9
80°	557.9	260.7	105.2	105.2	118.9	114.3	109.7	100.6	100.6	96.0	91.5
82.5°	205.8	105.2	64.0	77.7	86.9	77.7	77.7	77.7	77.7	73.2	73.2
85°	50.3	32.0	32.0	45.7	50.3	45.7	50.3	45.7	45.7	45.7	41.2
87.5°	13.7	13.7	18.3	18.3	18.3	18.3	18.3	13.7	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)