

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: P836470

Luminaire Tested: **ARCH3-190-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16958 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 189.4
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



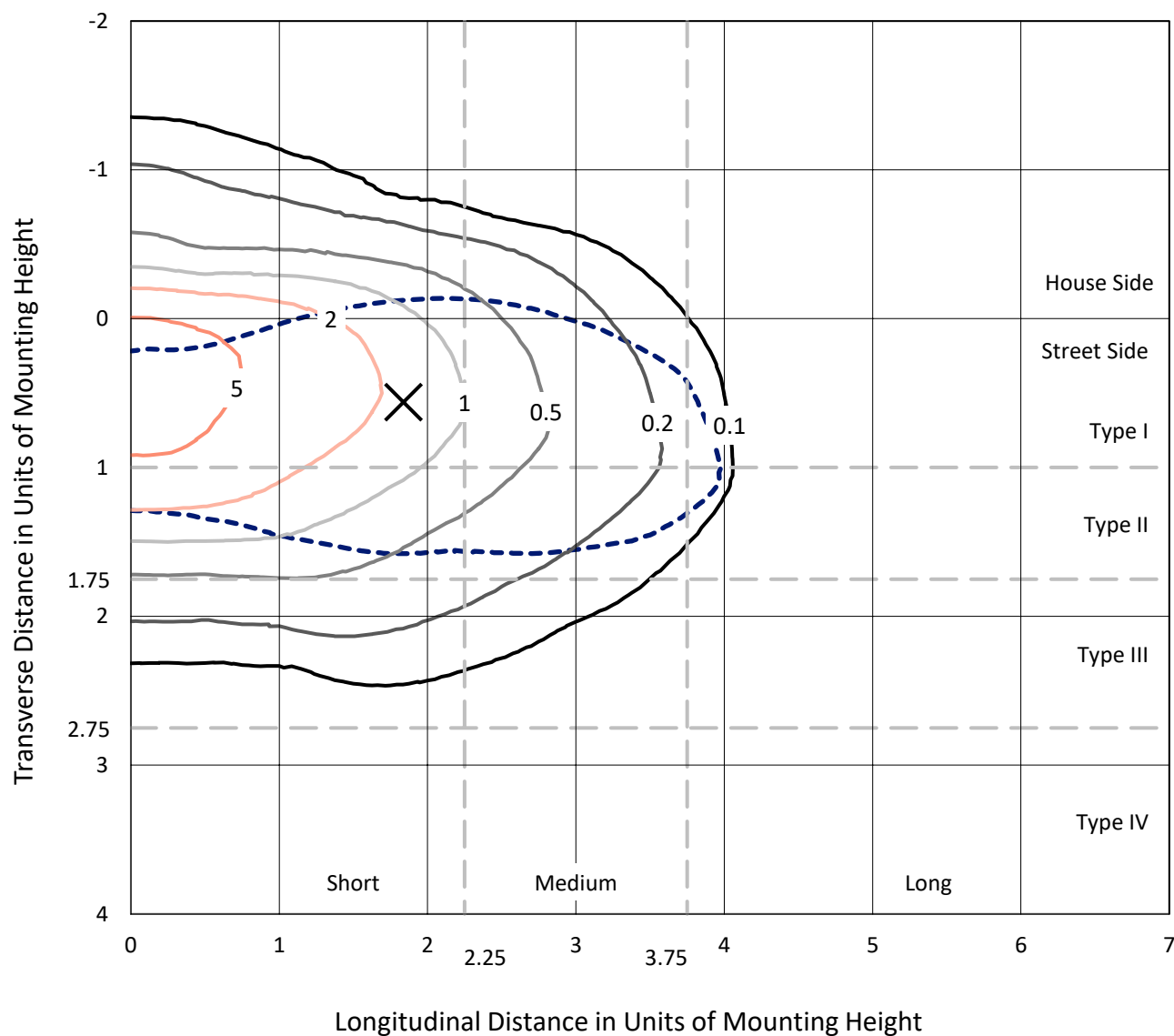
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

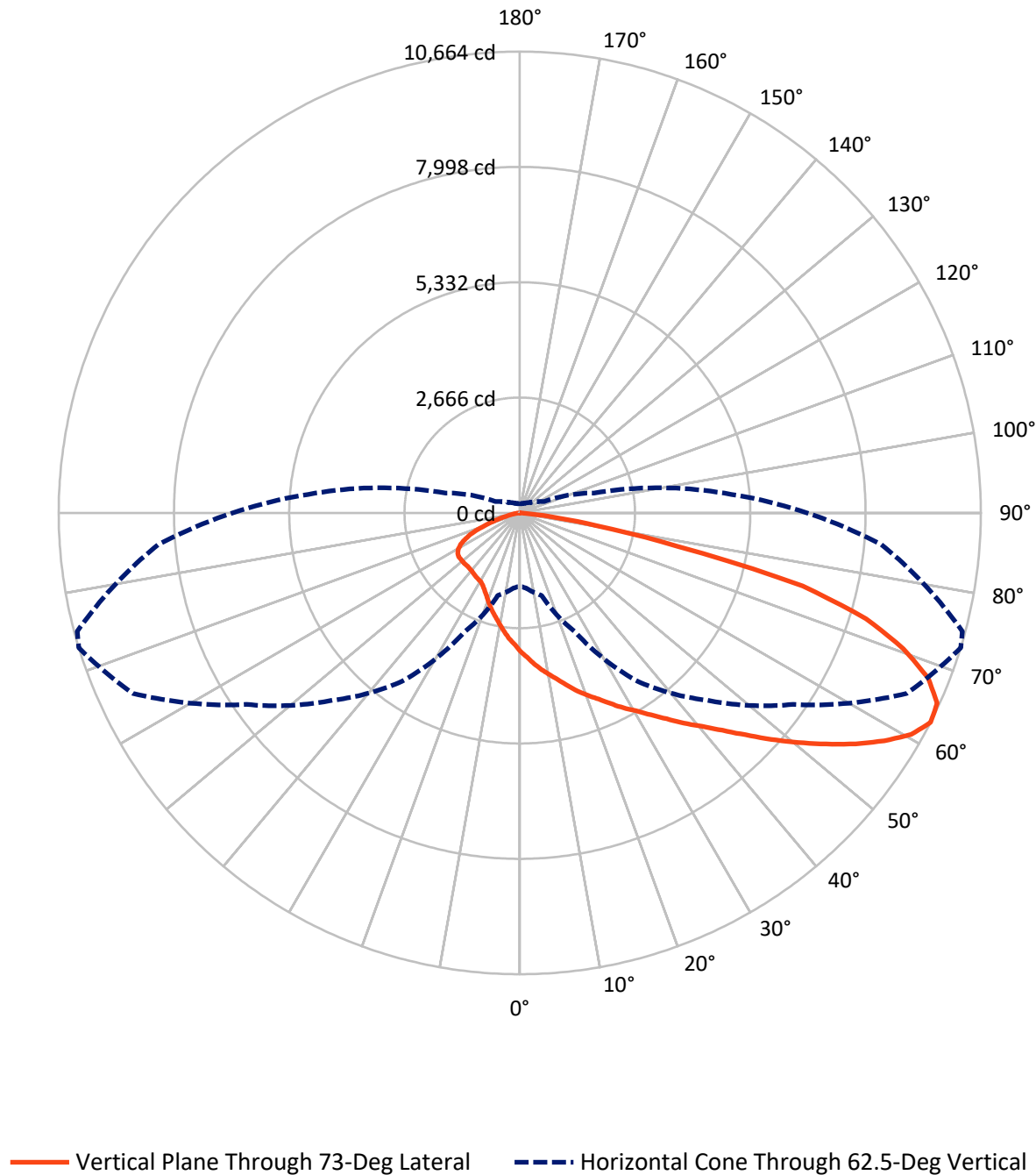


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

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	2628.7	0.0	2628.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	14329.3	0.0	14329.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	16958.0	0.0	16958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.8
10°-20°	936.1	5.5
20°-30°	1558.1	9.2
30°-40°	2350.9	13.9
40°-50°	3286.0	19.4
50°-60°	3629.6	21.4
60°-70°	3161.8	18.6
70°-80°	1597.2	9.4
80°-90°	128.2	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°	16958.0	100.0
0°-180°	16958.0	100.0

Coefficient of Utilization



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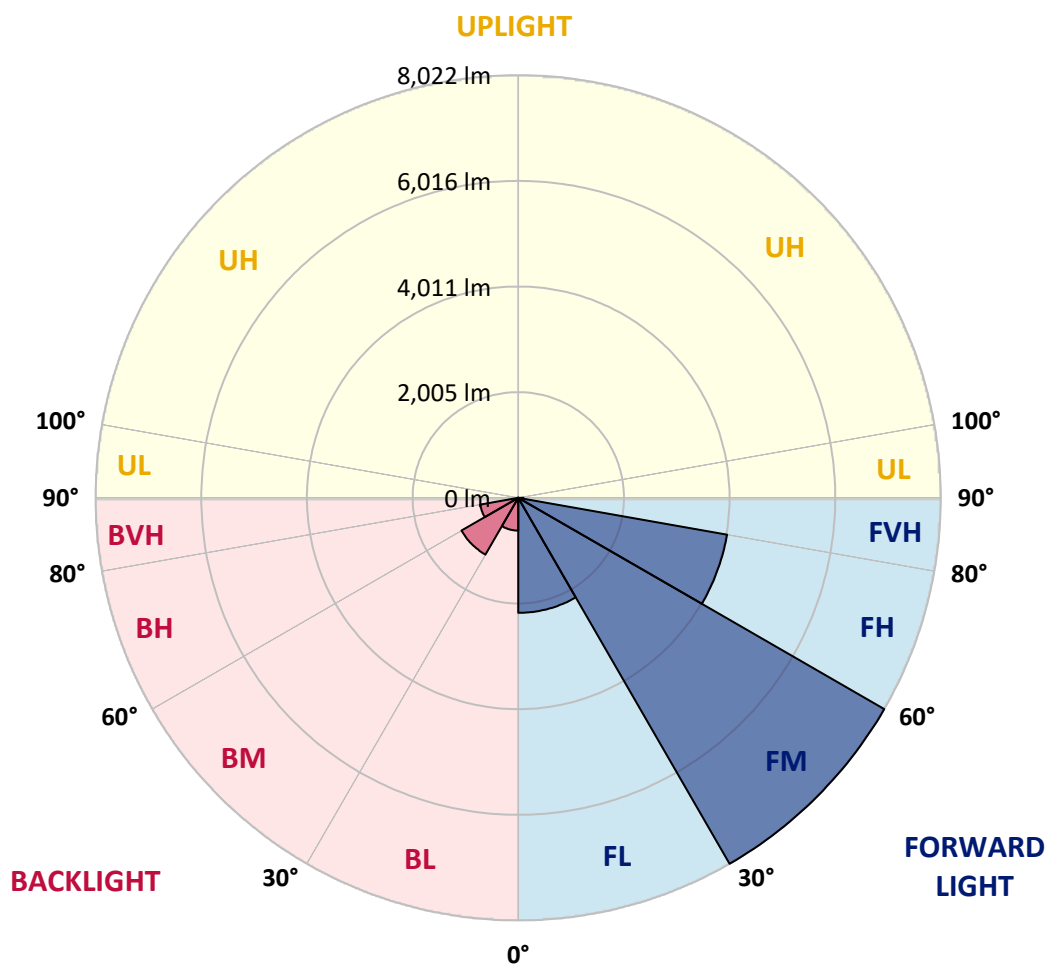
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2183.0	12.9			
FM	(30°-60°)	8021.8	47.3			
FH	(60°-80°)	4025.3	23.7			G2/5000
FVH	(80°-90°)	99.2	0.6			G1/100
BL	(0°-30°)	621.3	3.7	B2/1000		
BM	(30°-60°)	1244.7	7.3	B2/2500		
BH	(60°-80°)	733.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0
2.5°	3654.4	3695.1	3672.9	3687.7	3613.8	3565.8	3510.3	3403.2	3344.1	3336.7	3266.5
5°	4190.2	4234.6	4197.6	4186.5	4057.2	3946.4	3820.7	3632.3	3506.6	3484.5	3329.3
7.5°	4726.0	4766.7	4722.3	4689.1	4515.4	4319.6	4134.8	3857.7	3661.8	3624.9	3381.0
10°	5102.9	5139.9	5106.6	5073.4	4892.3	4692.8	4430.4	4068.3	3802.2	3743.1	3414.3
12.5°	5387.4	5409.6	5394.8	5365.3	5195.3	4981.0	4729.7	4304.8	3961.1	3887.2	3466.0
15°	5620.2	5657.2	5638.7	5616.5	5454.0	5239.6	4999.5	4552.4	4145.9	4053.5	3543.6
17.5°	5775.4	5801.3	5805.0	5805.0	5660.9	5450.3	5217.5	4777.8	4330.6	4212.4	3617.5
20°	5845.6	5875.2	5893.7	5923.2	5805.0	5623.9	5387.4	4969.9	4504.3	4371.3	3687.7
22.5°	5878.9	5904.8	5952.8	6019.3	5923.2	5771.7	5553.7	5147.3	4678.0	4537.6	3769.0
25°	5904.8	5938.0	6008.2	6133.8	6067.3	5938.0	5749.6	5350.5	4884.9	4740.8	3887.2
27.5°	5975.0	6015.6	6082.1	6233.6	6152.3	6089.5	5956.5	5568.5	5102.9	4955.1	4031.3
30°	6218.8	6252.1	6248.4	6344.5	6244.7	6226.2	6133.8	5779.1	5313.5	5165.7	4201.3
32.5°	6662.2	6695.5	6614.2	6577.3	6359.2	6362.9	6326.0	6004.5	5564.8	5413.3	4397.2
35°	7138.9	7175.9	7068.7	7005.9	6640.1	6532.9	6551.4	6285.3	5845.6	5694.1	4641.0
37.5°	7563.8	7608.2	7515.8	7423.4	7053.9	6806.4	6802.7	6599.4	6167.1	6011.9	4910.8
40°	7796.6	7848.4	7903.8	7852.1	7464.1	7190.6	7072.4	6920.9	6484.9	6326.0	5202.7
42.5°	7907.5	8051.6	8151.4	8118.1	7800.3	7523.2	7382.8	7257.2	6872.9	6717.7	5550.0
45°	7597.1	7600.8	7811.4	7992.5	7933.4	7748.6	7722.7	7634.1	7316.3	7168.5	5941.7
47.5°	7209.1	7179.6	7327.4	7648.8	7815.1	7863.2	8014.7	8051.6	7822.5	7674.7	6340.8
50°	6278.0	6296.4	6776.8	7238.7	7563.8	7874.2	8221.6	8480.2	8343.5	8203.1	6762.0
52.5°	5106.6	5151.0	5701.5	6717.7	7231.3	7763.4	8343.5	8908.9	8875.6	8742.6	7183.3
55°	4094.2	4164.4	4748.2	5849.3	6806.4	7515.8	8395.2	9300.5	9426.2	9304.2	7597.1
57.5°	3129.7	3203.6	3695.1	4825.8	6263.2	7113.0	8358.3	9644.2	9939.8	9862.2	7977.7
60°	2357.5	2431.4	2745.5	3913.1	5583.3	6662.2	8173.5	9869.6	10401.7	10320.4	8254.8
62.5°	1688.7	1747.8	1980.6	3044.8	4755.6	6126.5	7719.0	9873.3	10664.0	10597.5	8387.9
65°	1215.7	1215.7	1404.1	2172.7	3979.6	5483.5	7031.8	9418.8	10608.6	10590.1	8295.5
67.5°	875.7	883.1	1034.6	1518.7	3174.1	4703.8	6141.2	8609.6	10180.0	10272.4	7962.9
70°	620.8	639.3	709.5	1060.5	2398.1	3713.6	5187.9	7549.1	9407.7	9570.3	7320.0
72.5°	480.4	491.4	539.5	739.0	1751.5	2760.2	4134.8	6366.6	8376.8	8561.5	6444.2
75°	369.5	380.6	417.5	543.2	1256.3	1936.2	2937.6	4940.3	6754.6	7083.5	5176.8
77.5°	269.7	284.5	310.4	395.4	731.6	1230.5	1781.0	2778.7	3728.3	3883.5	2712.2
80°	125.6	144.1	181.1	255.0	395.4	580.1	631.9	1071.6	1792.1	1873.4	1470.6
82.5°	70.2	88.7	103.5	155.2	199.5	206.9	214.3	269.7	676.2	746.4	617.1
85°	33.3	44.3	48.0	66.5	66.5	59.1	70.2	51.7	110.9	133.0	129.3
87.5°	0.0	3.7	7.4	18.5	14.8	11.1	11.1	11.1	11.1	14.8	11.1
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°	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0
2.5°	3233.2	3185.2	3074.3	2978.2	2915.4	2860.0	2786.1	2752.8	2693.7	2704.8	2671.6
5°	3251.7	3163.0	2967.2	2786.1	2653.1	2534.8	2405.5	2331.6	2250.3	2242.9	2217.1
7.5°	3262.8	3126.0	2845.2	2590.3	2387.0	2206.0	2032.3	1936.2	1836.5	1814.3	1792.1
10°	3251.7	3070.6	2719.6	2387.0	2117.3	1891.9	1696.0	1574.1	1470.6	1444.8	1422.6
12.5°	3262.8	3041.1	2601.3	2198.6	1877.1	1622.1	1400.4	1274.8	1178.7	1152.9	1138.1
15°	3288.6	3022.6	2501.6	2028.6	1662.8	1378.3	1160.3	1053.1	975.5	949.6	942.2
17.5°	3310.8	3004.1	2394.4	1862.3	1448.5	1164.0	975.5	886.8	820.3	794.4	787.1
20°	3340.4	2978.2	2287.3	1703.4	1260.0	994.0	827.7	750.1	698.4	679.9	676.2
22.5°	3366.2	2959.8	2187.5	1544.5	1086.4	857.3	716.8	654.0	617.1	598.6	598.6
25°	3432.7	2967.2	2102.5	1396.7	957.0	750.1	631.9	583.8	554.3	543.2	543.2
27.5°	3510.3	2996.7	2036.0	1271.1	846.2	668.8	572.7	532.1	517.3	502.5	506.2
30°	3621.2	3055.8	1991.7	1167.6	764.9	606.0	524.7	495.1	480.4	476.7	476.7
32.5°	3761.6	3151.9	1988.0	1101.1	705.8	558.0	491.4	465.6	458.2	454.5	454.5
35°	3927.9	3236.9	1965.8	1071.6	668.8	524.7	465.6	447.1	443.4	443.4	443.4
37.5°	4127.4	3377.3	1951.0	1030.9	650.3	506.2	447.1	432.3	432.3	432.3	432.3
40°	4334.3	3491.9	1928.8	994.0	642.9	495.1	436.0	417.5	417.5	417.5	417.5
42.5°	4581.9	3658.1	1921.4	975.5	631.9	487.8	421.2	399.1	402.8	402.8	406.5
45°	4881.2	3846.6	1917.8	957.0	628.2	480.4	406.5	380.6	384.3	380.6	380.6
47.5°	5184.2	4064.6	1928.8	945.9	624.5	473.0	395.4	362.1	362.1	358.4	358.4
50°	5502.0	4264.1	1936.2	934.9	617.1	458.2	376.9	347.3	339.9	332.6	336.3
52.5°	5801.3	4448.9	1939.9	916.4	594.9	436.0	362.1	328.9	317.8	306.7	310.4
55°	6100.6	4626.3	1947.3	894.2	565.3	413.9	343.6	310.4	295.6	280.8	280.8
57.5°	6370.3	4781.4	1928.8	838.8	532.1	391.7	325.2	288.2	266.0	251.3	251.3
60°	6555.1	4892.3	1873.4	757.5	487.8	365.8	306.7	266.0	240.2	229.1	229.1
62.5°	6643.8	4910.8	1773.6	624.5	432.3	339.9	284.5	243.9	221.7	214.3	214.3
65°	6558.8	4829.5	1618.4	469.3	373.2	310.4	262.4	225.4	203.2	184.8	184.8
67.5°	6263.2	4600.4	1404.1	354.7	317.8	280.8	240.2	206.9	181.1	166.3	166.3
70°	5668.3	4123.7	1086.4	284.5	269.7	243.9	218.0	184.8	162.6	144.1	144.1
72.5°	4888.6	3495.6	764.9	229.1	229.1	206.9	184.8	162.6	140.4	125.6	125.6
75°	3750.5	2586.6	513.6	184.8	188.4	173.7	151.5	133.0	118.2	107.2	107.2
77.5°	2047.1	1278.5	314.1	136.7	140.4	133.0	118.2	107.2	99.8	88.7	88.7
80°	994.0	561.7	181.1	96.1	99.8	96.1	88.7	77.6	77.6	70.2	70.2
82.5°	417.5	210.6	96.1	66.5	66.5	59.1	55.4	55.4	55.4	51.7	51.7
85°	103.5	40.6	40.6	37.0	37.0	37.0	33.3	33.3	33.3	25.9	29.6
87.5°	14.8	14.8	14.8	14.8	14.8	14.8	11.1	3.7	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)