

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: P841520

Luminaire Tested: **ARCH4-190-727-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19877 lumens
Efficiency: N/A
Efficacy: 104.6 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): 190
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



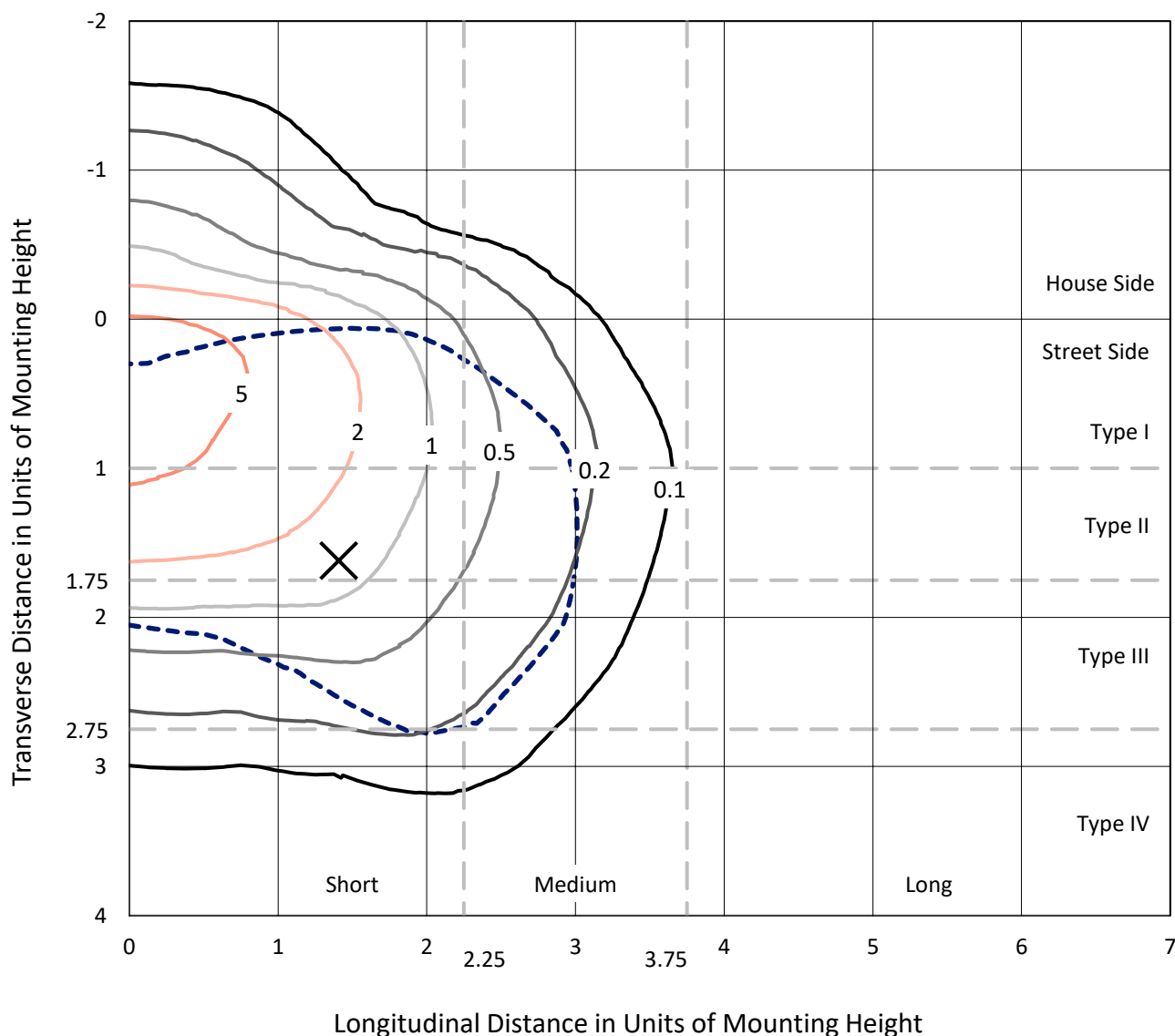
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

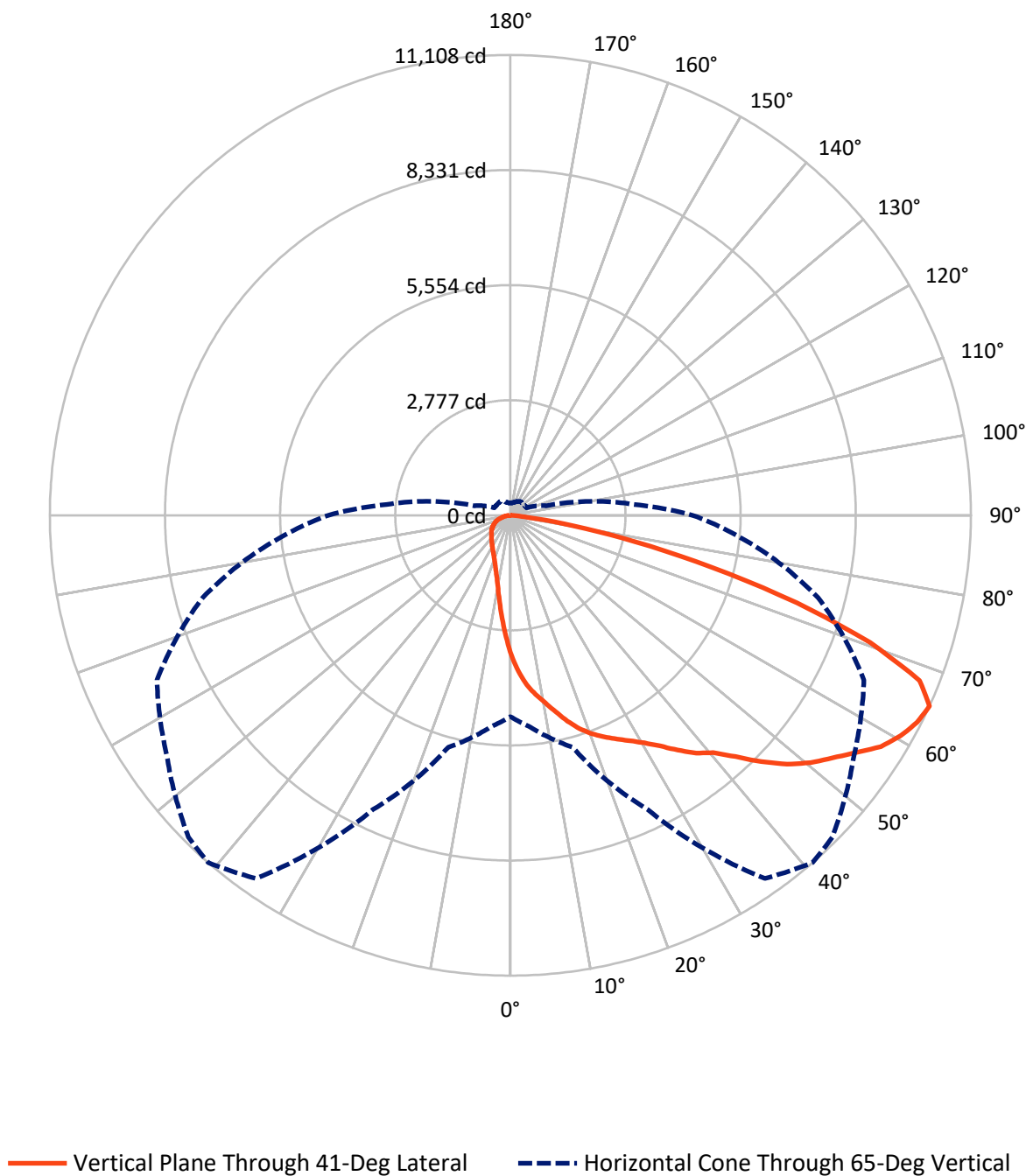


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc

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	2551.9	0.0	2551.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17325.1	0.0	17325.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	19877.0	0.0	19877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.6
10°-20°	946.3	4.8
20°-30°	1627.9	8.2
30°-40°	2469.0	12.4
40°-50°	3617.2	18.2
50°-60°	4567.7	23.0
60°-70°	4283.0	21.5
70°-80°	1908.9	9.6
80°-90°	141.4	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°	19877.0	100.0
0°-180°	19877.0	100.0

Coefficient of Utilization



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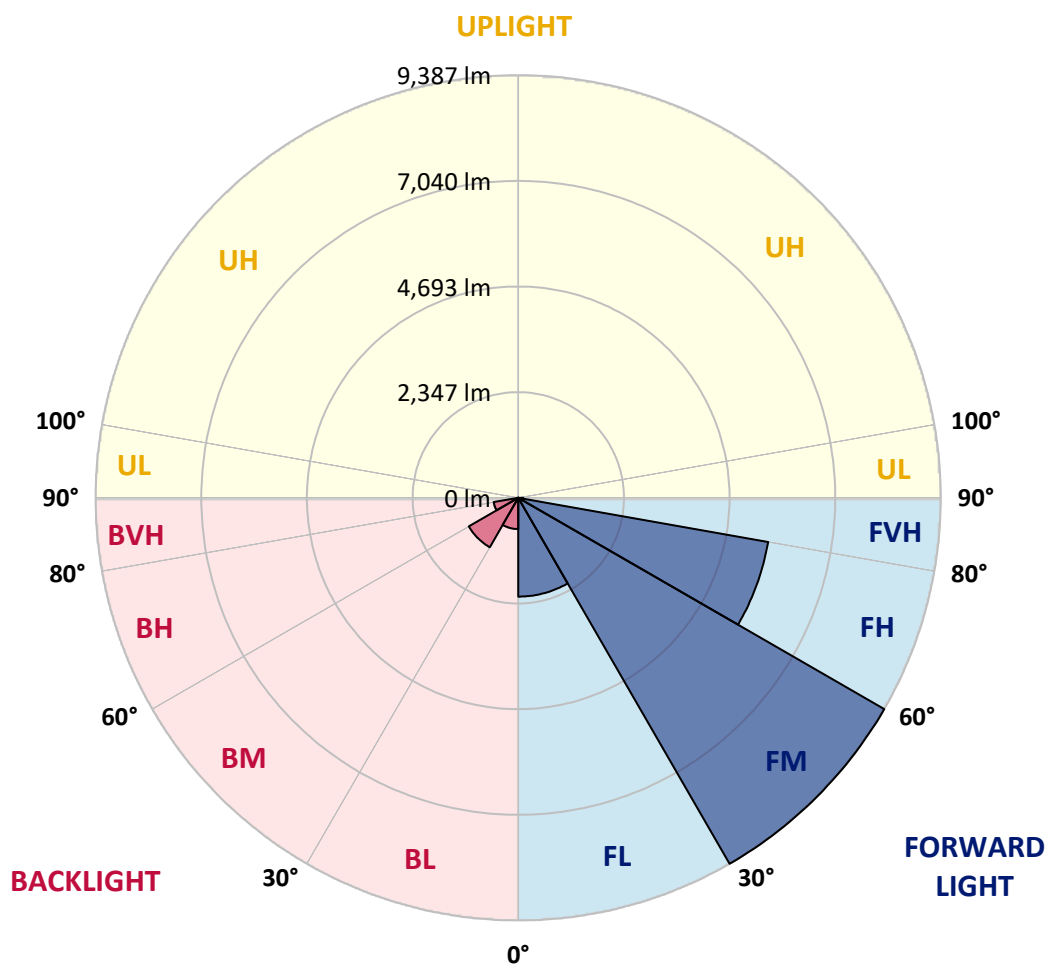
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2195.2	11.0			
FM	(30°-60°)	9386.7	47.2			
FH	(60°-80°)	5637.6	28.4			G3/7500
FVH	(80°-90°)	105.6	0.5			G2/225
BL	(0°-30°)	694.6	3.5	B2/1000		
BM	(30°-60°)	1267.2	6.4	B2/2500		
BH	(60°-80°)	554.4	2.8	B2/1000		G2/1000
BVH	(80°-90°)	35.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9
2.5°	3906.7	3894.1	3885.8	3839.6	3839.6	3776.8	3781.0	3722.3	3651.0	3537.8	3416.3
5°	4275.6	4258.8	4237.9	4191.8	4175.0	4112.1	4103.7	4019.9	3898.3	3701.3	3483.3
7.5°	4598.4	4581.6	4552.2	4485.2	4439.1	4363.6	4342.7	4233.7	4099.5	3856.4	3550.4
10°	4891.8	4879.2	4841.5	4757.6	4694.8	4602.5	4564.8	4418.1	4250.4	3982.2	3604.9
12.5°	5189.4	5172.6	5122.3	5051.1	4975.6	4866.6	4820.5	4631.9	4418.1	4120.5	3684.6
15°	5466.0	5440.9	5403.2	5327.7	5260.7	5155.9	5105.6	4883.4	4623.5	4275.6	3789.3
17.5°	5646.3	5625.3	5591.8	5549.9	5495.4	5415.7	5365.4	5147.5	4828.9	4426.5	3898.3
20°	5755.3	5746.9	5734.3	5709.2	5684.0	5629.5	5591.8	5386.4	5051.1	4573.2	4003.1
22.5°	5839.1	5830.7	5826.5	5826.5	5830.7	5809.8	5784.6	5608.6	5264.8	4728.3	4099.5
25°	5969.1	5964.9	5956.5	5948.1	5977.4	5981.6	5973.2	5851.7	5533.1	4933.7	4221.1
27.5°	6149.3	6136.7	6120.0	6111.6	6140.9	6161.9	6178.6	6094.8	5818.2	5143.3	4359.4
30°	6426.0	6388.2	6346.3	6317.0	6337.9	6371.5	6409.2	6358.9	6111.6	5403.2	4501.9
32.5°	6752.9	6706.8	6610.4	6555.9	6610.4	6635.5	6664.9	6639.7	6417.6	5684.0	4644.5
35°	7151.1	7096.6	6996.0	6916.4	7012.8	6958.3	6945.7	6920.6	6706.8	5960.7	4803.7
37.5°	7813.4	7733.8	7574.5	7398.4	7398.4	7281.1	7235.0	7159.5	6966.7	6208.0	4958.8
40°	8580.5	8475.7	8270.3	8010.4	7771.5	7528.4	7499.0	7444.6	7272.7	6493.0	5134.9
42.5°	9423.1	9221.9	8936.8	8622.4	8236.8	7960.1	7893.1	7738.0	7570.3	6782.3	5311.0
45°	10357.8	9938.6	9523.7	9364.4	8727.2	8475.7	8350.0	8069.1	7880.5	7084.1	5495.4
47.5°	10508.7	10181.8	9905.1	9880.0	9184.1	8974.5	8832.0	8429.6	8215.8	7406.8	5688.2
50°	10424.9	10227.9	10257.2	10156.6	9519.5	9381.1	9272.2	8815.3	8547.0	7717.0	5864.3
52.5°	10072.8	10181.8	10349.4	10165.0	9838.0	9724.9	9670.4	9230.2	8857.2	8002.1	6023.5
55°	9653.6	9729.1	10089.6	10315.9	10206.9	10106.3	10056.0	9712.3	9163.2	8241.0	6170.3
57.5°	9041.6	9008.1	9406.3	10290.8	10592.6	10533.9	10479.4	10186.0	9448.2	8412.8	6262.5
60°	8123.6	8052.4	8555.4	9787.7	10718.3	10810.5	10785.4	10500.3	9666.2	8408.7	6224.8
62.5°	6534.9	6711.0	7406.8	8966.2	10772.8	11007.5	10961.4	10525.5	9737.4	8165.5	5985.8
65°	4858.2	5109.7	5793.0	7834.4	10697.4	11108.1	10982.4	10114.7	9406.3	7683.5	5461.9
67.5°	3500.1	3722.3	4221.1	6446.9	9972.2	10647.1	10500.3	9444.0	8643.4	7000.2	4736.7
70°	2393.5	2552.8	2892.3	4694.8	8513.5	9205.1	9112.9	8442.2	7440.4	6187.0	3848.0
72.5°	1689.3	1756.3	1974.3	3097.7	6467.9	7222.4	7113.4	6945.7	5977.4	5143.3	2992.9
75°	1265.9	1307.8	1425.2	2003.7	4363.6	5005.0	4904.4	5000.8	4464.2	3894.1	2179.7
77.5°	477.9	519.8	809.0	1278.5	2582.1	3072.6	2972.0	3030.6	2481.5	1965.9	1085.7
80°	129.9	138.3	268.3	607.8	1173.7	1530.0	1391.7	1194.6	922.2	905.4	574.3
82.5°	54.5	62.9	121.6	327.0	419.2	419.2	352.1	435.9	352.1	423.4	276.7
85°	21.0	25.2	29.3	83.8	54.5	58.7	62.9	83.8	71.3	88.0	62.9
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	4.2	8.4	12.6	12.6	12.6
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°	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9	3386.9
2.5°	3366.0	3319.9	3252.8	3143.8	3030.6	2967.8	2888.1	2875.5	2791.7	2783.3	2749.8
5°	3386.9	3290.5	3118.7	2909.1	2703.7	2544.4	2427.0	2364.1	2242.6	2242.6	2209.1
7.5°	3403.7	3252.8	2976.1	2666.0	2385.1	2171.3	2012.0	1945.0	1836.0	1827.6	1802.5
10°	3407.9	3206.7	2821.1	2418.6	2074.9	1856.9	1701.9	1626.4	1530.0	1521.6	1504.8
12.5°	3441.4	3181.5	2682.7	2204.9	1852.8	1618.0	1467.1	1404.2	1328.8	1320.4	1303.6
15°	3495.9	3181.5	2565.4	2024.6	1655.7	1437.8	1307.8	1249.1	1194.6	1186.3	1177.9
17.5°	3550.4	3173.2	2448.0	1856.9	1492.3	1295.3	1182.1	1136.0	1094.0	1089.9	1081.5
20°	3600.7	3169.0	2330.6	1714.4	1366.5	1177.9	1089.9	1047.9	1014.4	1014.4	1010.2
22.5°	3651.0	3160.6	2217.4	1580.3	1257.5	1089.9	1014.4	968.3	943.1	943.1	939.0
25°	3726.5	3160.6	2112.6	1467.1	1169.5	1022.8	947.3	913.8	892.8	888.7	888.7
27.5°	3814.5	3185.7	2020.4	1366.5	1094.0	955.7	897.0	863.5	838.4	830.0	834.2
30°	3910.9	3206.7	1936.6	1278.5	1022.8	905.4	842.5	809.0	783.9	775.5	779.7
32.5°	4007.3	3231.8	1861.1	1198.8	951.5	859.3	796.4	758.7	733.6	729.4	729.4
35°	4112.1	3257.0	1785.7	1131.8	892.8	813.2	754.5	712.6	695.8	687.4	691.6
37.5°	4216.9	3298.9	1714.4	1068.9	850.9	771.3	716.8	674.9	662.3	658.1	658.1
40°	4342.7	3361.8	1685.1	1027.0	813.2	733.6	687.4	645.5	633.0	633.0	633.0
42.5°	4447.5	3412.1	1659.9	980.9	783.9	700.0	658.1	624.6	616.2	612.0	616.2
45°	4552.2	3458.2	1626.4	939.0	746.1	666.5	633.0	599.4	591.0	591.0	591.0
47.5°	4657.0	3483.3	1580.3	897.0	712.6	637.1	607.8	578.5	570.1	570.1	570.1
50°	4740.9	3504.3	1513.2	850.9	674.9	612.0	582.7	553.3	544.9	544.9	544.9
52.5°	4824.7	3508.5	1442.0	796.4	637.1	582.7	557.5	528.2	519.8	515.6	515.6
55°	4900.2	3504.3	1358.1	733.6	595.2	549.1	528.2	503.0	486.2	469.5	477.9
57.5°	4954.7	3500.1	1261.7	670.7	553.3	515.6	507.2	473.7	440.1	398.2	406.6
60°	4933.7	3454.0	1156.9	591.0	507.2	482.1	482.1	435.9	377.3	356.3	360.5
62.5°	4799.6	3324.1	1047.9	507.2	461.1	448.5	444.3	394.0	347.9	327.0	331.1
65°	4397.1	2997.1	888.7	431.8	415.0	410.8	410.8	364.7	322.8	297.6	301.8
67.5°	3785.2	2515.1	725.2	364.7	368.9	377.3	377.3	335.3	293.4	268.3	272.5
70°	3034.8	1965.9	578.5	314.4	318.6	331.1	339.5	301.8	264.1	238.9	238.9
72.5°	2284.5	1492.3	465.3	264.1	285.0	285.0	297.6	268.3	230.5	205.4	209.6
75°	1655.7	1068.9	368.9	222.2	247.3	243.1	243.1	226.4	197.0	180.2	180.2
77.5°	783.9	561.7	293.4	159.3	192.8	188.6	192.8	180.2	167.7	150.9	155.1
80°	385.6	276.7	188.6	113.2	134.1	138.3	150.9	142.5	138.3	125.8	125.8
82.5°	184.4	109.0	88.0	79.6	92.2	96.4	104.8	104.8	109.0	100.6	100.6
85°	50.3	29.3	37.7	50.3	58.7	62.9	71.3	75.5	75.5	71.3	75.5
87.5°	12.6	12.6	16.8	25.2	29.3	33.5	37.7	37.7	16.8	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)