

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: P841195

Luminaire Tested: **ARCH4-140-750-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24569 lumens
Efficiency: N/A
Efficacy: 173.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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



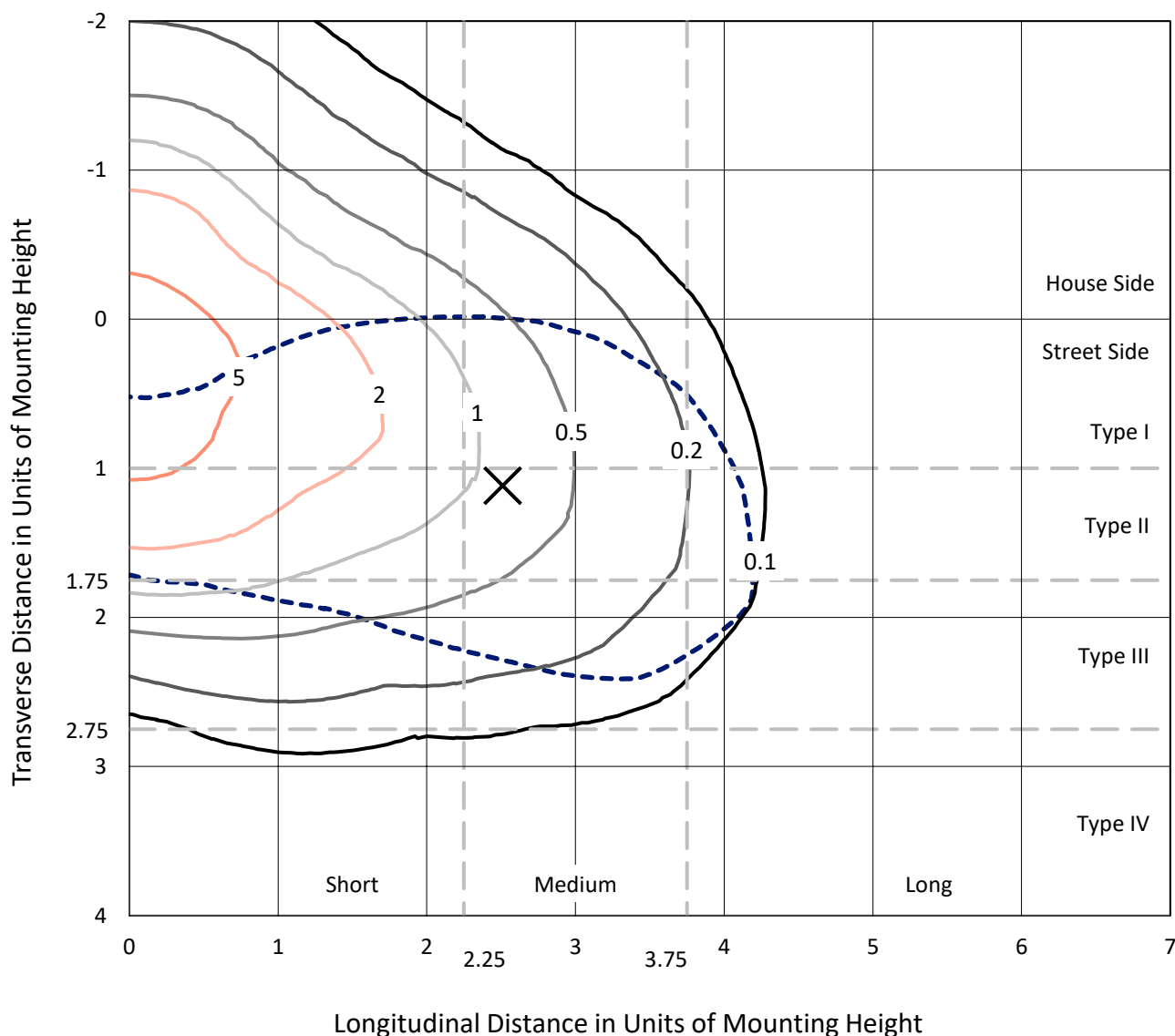
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

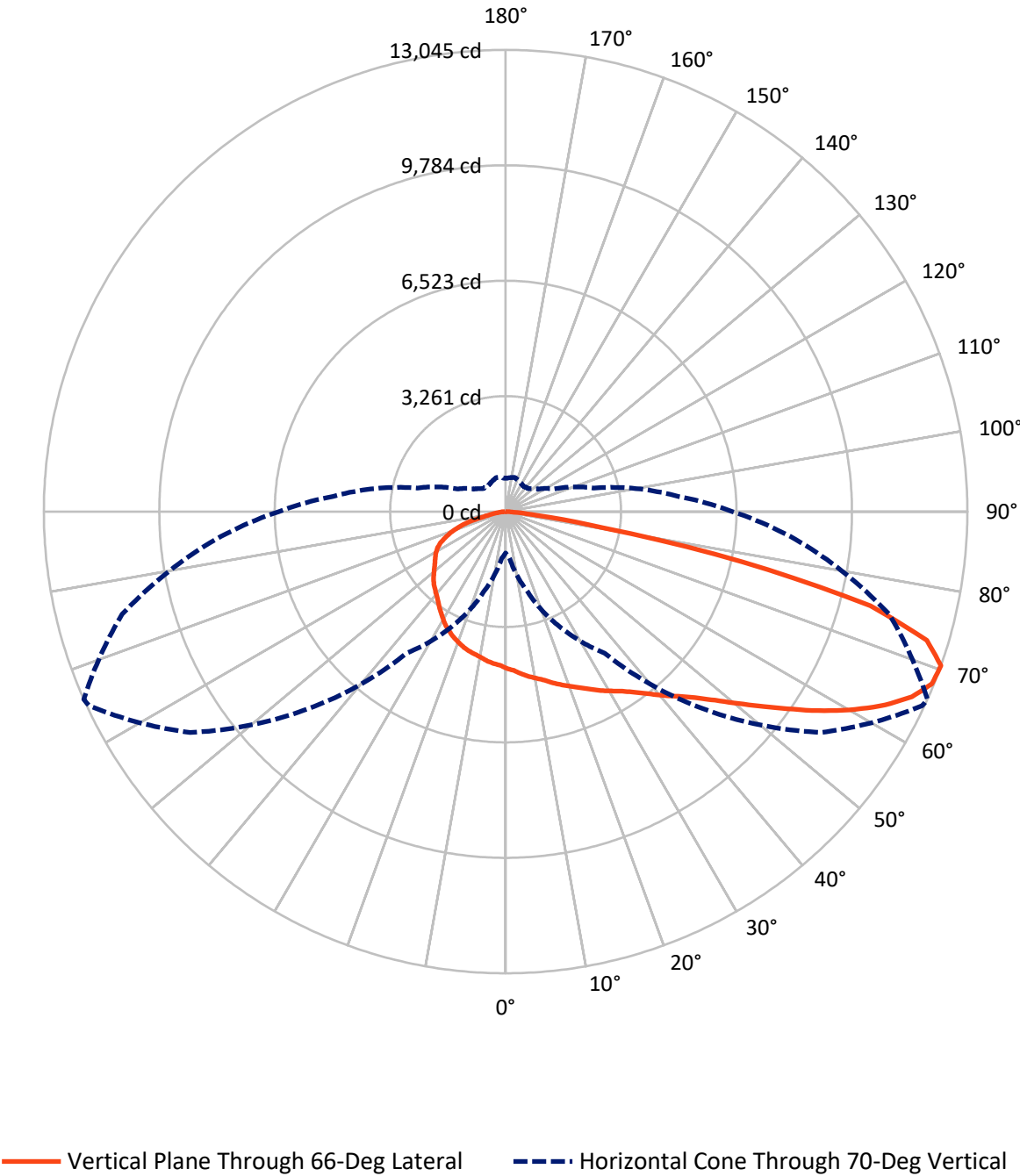


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6510.2	0.0	6510.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	18058.8	0.0	18058.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	24569.0	0.0	24569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.1	1.7
10°-20°	1278.1	5.2
20°-30°	2142.5	8.7
30°-40°	3208.0	13.1
40°-50°	4289.1	17.5
50°-60°	5007.6	20.4
60°-70°	4979.3	20.3
70°-80°	2947.8	12.0
80°-90°	290.5	1.2
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°	24569.0	100.0
0°-180°	24569.0	100.0

Coefficient of Utilization



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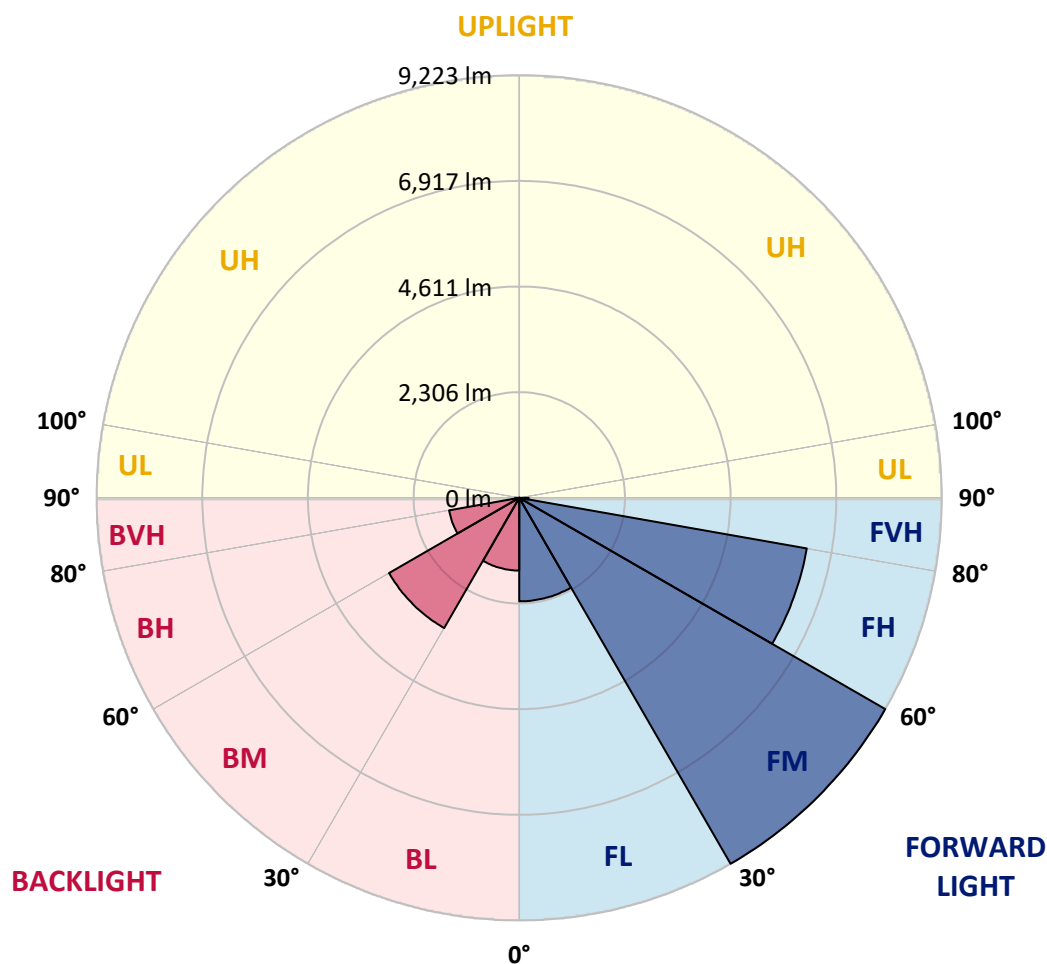
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2259.7	9.2			
FM	(30°-60°)	9222.9	37.5			
FH	(60°-80°)	6372.0	25.9			G3/7500
FVH	(80°-90°)	204.2	0.8			G2/225
BL	(0°-30°)	1586.9	6.5	B3/2500		
BM	(30°-60°)	3281.8	13.4	B3/5000		
BH	(60°-80°)	1555.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	86.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1
2.5°	4597.2	4589.9	4586.3	4571.8	4539.2	4553.7	4521.1	4499.4	4495.7	4445.0	4416.0
5°	4785.5	4781.9	4774.7	4752.9	4702.2	4709.5	4655.1	4615.3	4604.4	4524.7	4463.1
7.5°	4944.9	4937.7	4934.1	4905.1	4850.8	4847.1	4781.9	4724.0	4705.8	4597.2	4503.0
10°	5068.1	5057.2	5064.5	5035.5	4977.5	4966.7	4883.4	4807.3	4789.2	4651.5	4521.1
12.5°	5173.2	5165.9	5176.8	5151.4	5104.3	5093.5	5010.1	4912.3	4890.6	4731.2	4560.9
15°	5289.1	5263.7	5285.5	5274.6	5242.0	5238.4	5162.3	5053.6	5024.6	4832.6	4622.5
17.5°	5350.7	5336.2	5361.5	5365.2	5350.7	5376.0	5303.6	5173.2	5147.8	4926.8	4676.9
20°	5394.2	5372.4	5401.4	5423.1	5434.0	5484.7	5426.8	5300.0	5271.0	5017.4	4727.6
22.5°	5542.7	5495.6	5499.2	5513.7	5520.9	5593.4	5557.2	5434.0	5405.0	5129.7	4789.2
25°	5915.8	5821.6	5760.0	5716.6	5665.9	5727.4	5705.7	5586.2	5560.8	5263.7	4865.2
27.5°	6495.4	6375.9	6252.7	6125.9	5926.7	5901.3	5865.1	5756.4	5727.4	5397.8	4941.3
30°	7154.8	7035.2	6890.3	6687.4	6314.3	6118.7	6035.4	5915.8	5883.2	5517.3	5013.8
32.5°	7810.5	7705.4	7560.5	7314.2	6781.6	6383.1	6205.6	6082.5	6049.9	5647.7	5100.7
35°	8321.3	8256.1	8161.9	7853.9	7245.3	6694.7	6452.0	6303.4	6267.2	5854.2	5260.1
37.5°	8734.3	8687.2	8607.5	8285.0	7582.2	7006.2	6734.5	6564.3	6524.4	6078.8	5430.4
40°	9342.9	9219.7	9154.5	8687.2	7875.7	7288.8	7053.3	6875.8	6832.4	6317.9	5568.0
42.5°	9860.9	9770.3	9690.6	9045.8	8154.6	7531.5	7354.0	7191.0	7133.0	6553.4	5716.6
45°	9947.8	9984.1	9944.2	9223.3	8596.6	7770.6	7658.3	7553.3	7498.9	6872.2	5941.2
47.5°	9951.5	9951.5	9716.0	9324.7	9143.6	8038.7	7984.4	8020.6	7962.6	7277.9	6209.3
50°	9690.6	9737.7	9614.6	9350.1	9288.5	8306.8	8382.9	8578.5	8520.5	7709.0	6499.1
52.5°	9150.9	9306.6	9303.0	9310.3	9078.4	8535.0	8803.1	9248.7	9150.9	8194.5	6807.0
55°	8198.1	8509.6	8788.6	9027.7	8897.3	8672.7	9317.5	9962.3	9860.9	8737.9	7118.5
57.5°	7383.0	7582.2	7930.0	8607.5	8683.5	8792.2	9799.3	10708.6	10618.0	9339.2	7444.6
60°	6452.0	6727.3	7075.1	8038.7	8422.7	8948.0	10328.2	11436.8	11349.8	9947.8	7759.8
62.5°	5021.0	5376.0	6071.6	7165.6	8042.3	9045.8	10744.8	12078.0	12038.1	10523.8	8042.3
65°	3499.5	3814.7	4789.2	6093.3	7437.3	9002.3	11078.1	12650.4	12614.1	10994.8	8241.6
67.5°	2043.2	2409.1	3510.4	4905.1	6368.6	8701.6	11186.8	12987.3	12987.3	11281.0	8295.9
70°	1166.5	1336.8	2314.9	3575.6	4883.4	7872.1	10882.5	12983.6	13045.2	11215.8	8071.3
72.5°	815.1	891.2	1557.7	2405.5	3311.1	6368.6	10085.5	12356.9	12440.2	10599.9	7303.3
75°	634.0	688.3	1097.7	1641.1	2086.7	4325.5	8343.0	10418.8	10639.8	9034.9	5904.9
77.5°	481.8	521.7	641.2	1025.2	1336.8	2485.1	5506.5	6832.4	6846.8	5531.8	3166.2
80°	351.4	391.2	427.5	626.7	710.0	1162.9	2079.4	2854.7	2775.0	2677.2	1713.5
82.5°	210.1	250.0	260.8	340.5	347.8	496.3	728.2	920.2	883.9	1177.4	804.2
85°	90.6	126.8	134.0	155.8	148.5	202.9	289.8	242.7	217.4	250.0	173.9
87.5°	21.7	36.2	36.2	39.8	32.6	50.7	54.3	39.8	36.2	43.5	43.5
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°	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1	4434.1
2.5°	4408.8	4397.9	4401.5	4340.0	4321.8	4303.7	4292.9	4285.6	4278.4	4289.2	4300.1
5°	4441.4	4416.0	4387.1	4296.5	4260.3	4220.4	4191.4	4166.1	4155.2	4155.2	4166.1
7.5°	4466.7	4423.3	4361.7	4242.1	4176.9	4122.6	4075.5	4042.9	4024.8	4024.8	4035.7
10°	4470.4	4408.8	4311.0	4166.1	4079.1	3999.4	3945.1	3908.9	3883.5	3883.5	3890.7
12.5°	4492.1	4408.8	4282.0	4108.1	3999.4	3901.6	3836.4	3782.1	3771.2	3771.2	3778.4
15°	4528.3	4426.9	4263.9	4057.4	3927.0	3814.7	3742.2	3684.3	3662.5	3677.0	3680.6
17.5°	4560.9	4437.8	4231.3	3992.2	3836.4	3713.2	3633.5	3582.8	3553.8	3586.4	3586.4
20°	4582.7	4437.8	4184.2	3908.9	3738.6	3600.9	3524.9	3463.3	3441.5	3481.4	3485.0
22.5°	4615.3	4434.1	4133.5	3825.5	3633.5	3488.6	3412.6	3365.5	3354.6	3398.1	3412.6
25°	4651.5	4441.4	4079.1	3731.3	3517.6	3376.3	3318.4	3296.6	3303.9	3358.2	3376.3
27.5°	4691.4	4455.9	4024.8	3626.3	3390.8	3264.0	3231.4	3242.3	3271.3	3340.1	3361.8
30°	4727.6	4459.5	3948.7	3503.1	3245.9	3126.4	3140.9	3187.9	3231.4	3300.3	3325.6
32.5°	4774.7	4463.1	3869.0	3369.1	3090.1	3003.2	3068.4	3144.5	3187.9	3253.2	3282.1
35°	4890.6	4524.7	3807.4	3238.7	2945.2	2898.1	3006.8	3104.6	3130.0	3187.9	3213.3
37.5°	5024.6	4626.1	3774.8	3104.6	2803.9	2793.1	2930.7	3028.6	3035.8	3072.0	3097.4
40°	5108.0	4669.6	3738.6	2992.3	2677.2	2684.4	2825.7	2901.8	2887.3	2912.6	2930.7
42.5°	5191.3	4684.1	3662.5	2898.1	2557.6	2564.8	2673.5	2727.9	2735.1	2789.5	2814.8
45°	5332.6	4724.0	3579.2	2811.2	2448.9	2423.6	2488.8	2561.2	2655.4	2760.5	2789.5
47.5°	5520.9	4807.3	3492.3	2706.1	2343.9	2260.5	2285.9	2412.7	2510.5	2608.3	2626.4
50°	5712.9	4890.6	3412.6	2579.3	2238.8	2086.7	2097.5	2213.4	2293.1	2369.2	2380.1
52.5°	5901.3	4963.1	3343.7	2459.8	2119.3	1880.2	1923.6	2043.2	2097.5	2133.8	2144.6
55°	6089.7	5024.6	3282.1	2358.4	1981.6	1717.1	1757.0	1869.3	1923.6	1941.7	1949.0
57.5°	6285.3	5097.1	3235.0	2271.4	1825.8	1572.2	1597.6	1677.3	1728.0	1749.7	1742.5
60°	6448.3	5158.7	3209.7	2180.8	1670.0	1438.2	1431.0	1503.4	1575.9	1597.6	1590.4
62.5°	6575.1	5198.5	3169.8	2064.9	1532.4	1304.2	1267.9	1362.1	1438.2	1452.7	1463.6
65°	6644.0	5202.2	3072.0	1916.4	1391.1	1159.3	1133.9	1228.1	1275.2	1289.7	1289.7
67.5°	6633.1	5144.2	2880.0	1717.1	1260.7	1028.8	1007.1	1065.1	1133.9	1144.8	1133.9
70°	6408.5	4905.1	2572.1	1507.0	1104.9	912.9	873.1	931.0	996.2	956.4	938.3
72.5°	5770.9	4285.6	2119.3	1275.2	931.0	768.0	749.9	807.9	811.5	818.7	800.6
75°	4553.7	3191.6	1586.7	992.6	753.5	644.8	641.2	630.3	644.8	673.8	652.1
77.5°	2391.0	1594.0	858.6	608.6	547.0	518.0	492.7	489.1	532.5	550.6	528.9
80°	1296.9	894.8	492.7	365.9	333.3	336.9	369.5	362.3	409.4	420.2	402.1
82.5°	565.1	423.9	242.7	221.0	221.0	217.4	228.2	253.6	304.3	304.3	242.7
85°	123.2	105.1	94.2	108.7	123.2	123.2	123.2	123.2	86.9	47.1	32.6
87.5°	39.8	39.8	39.8	43.5	47.1	47.1	39.8	29.0	18.1	3.6	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)