

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: P841094

Luminaire Tested: **ARCH4-130-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22110 lumens
Efficiency: N/A
Efficacy: 167.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

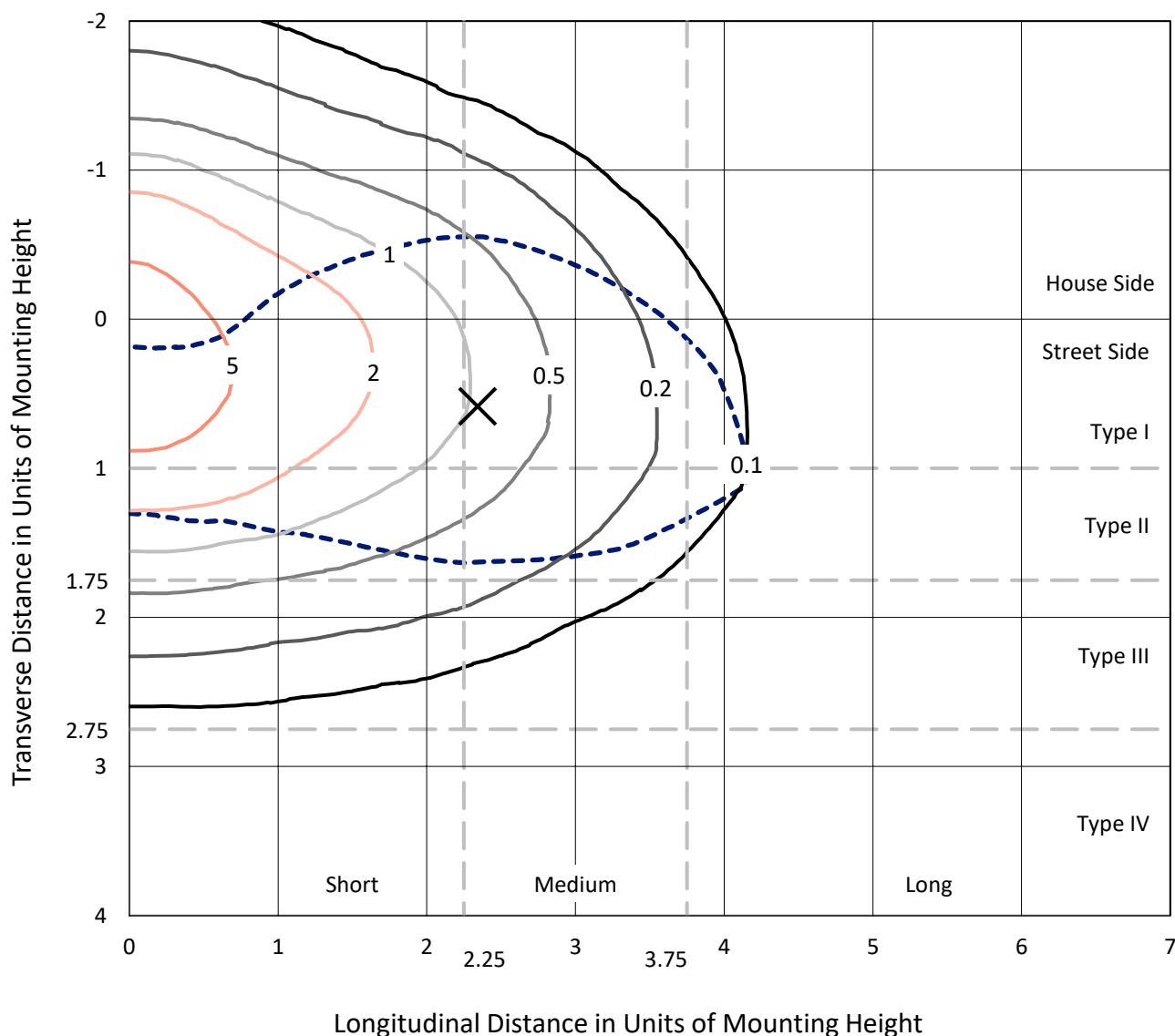
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

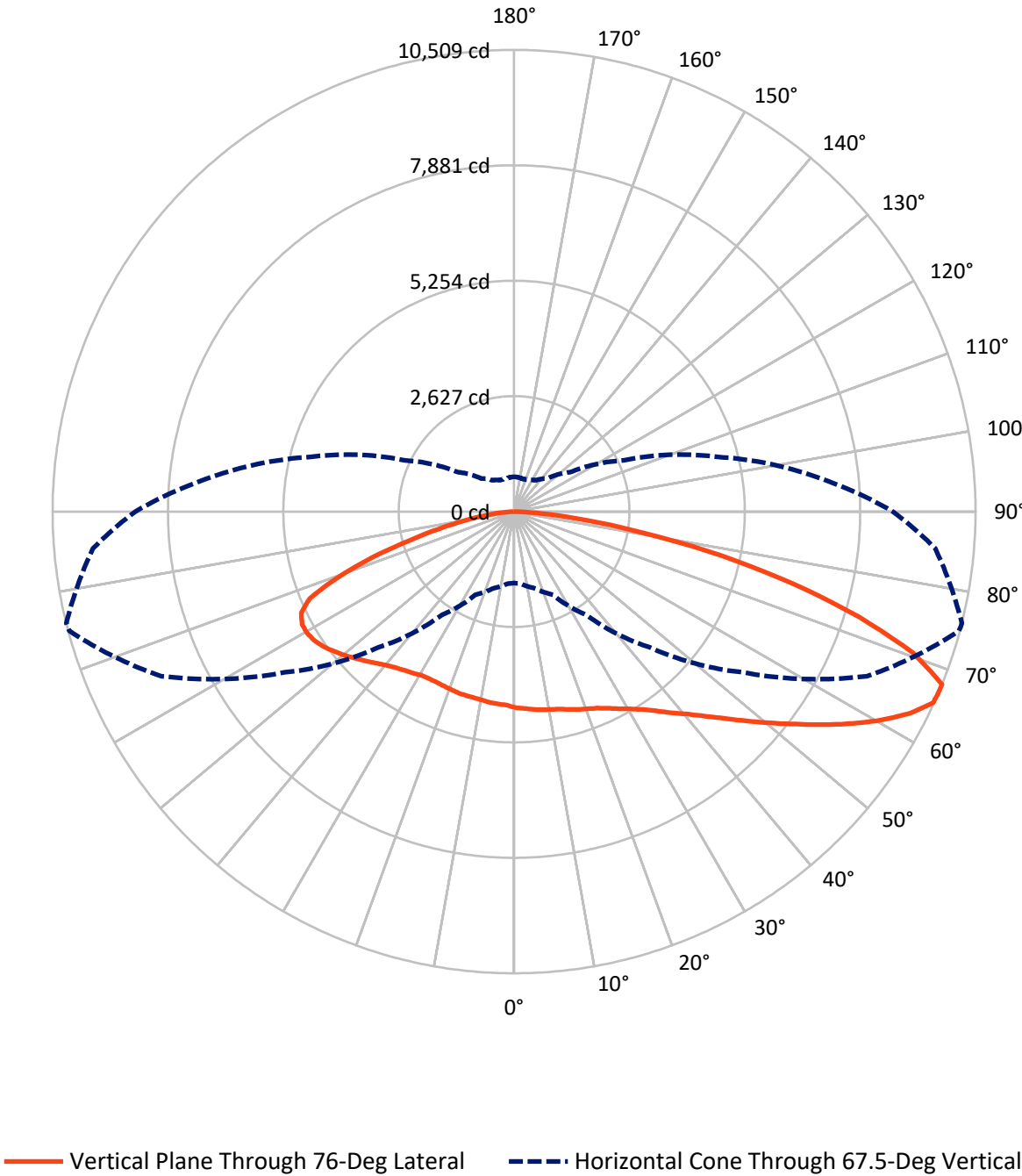
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7471.1	0.0	7471.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14638.9	0.0	14638.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	22110.0	0.0	22110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	1.9
10°-20°	1316.6	6.0
20°-30°	2237.0	10.1
30°-40°	3182.9	14.4
40°-50°	4019.9	18.2
50°-60°	4352.3	19.7
60°-70°	4048.1	18.3
70°-80°	2174.2	9.8
80°-90°	348.4	1.6
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°	22110.0	100.0
0°-180°	22110.0	100.0

Coefficient of Utilization



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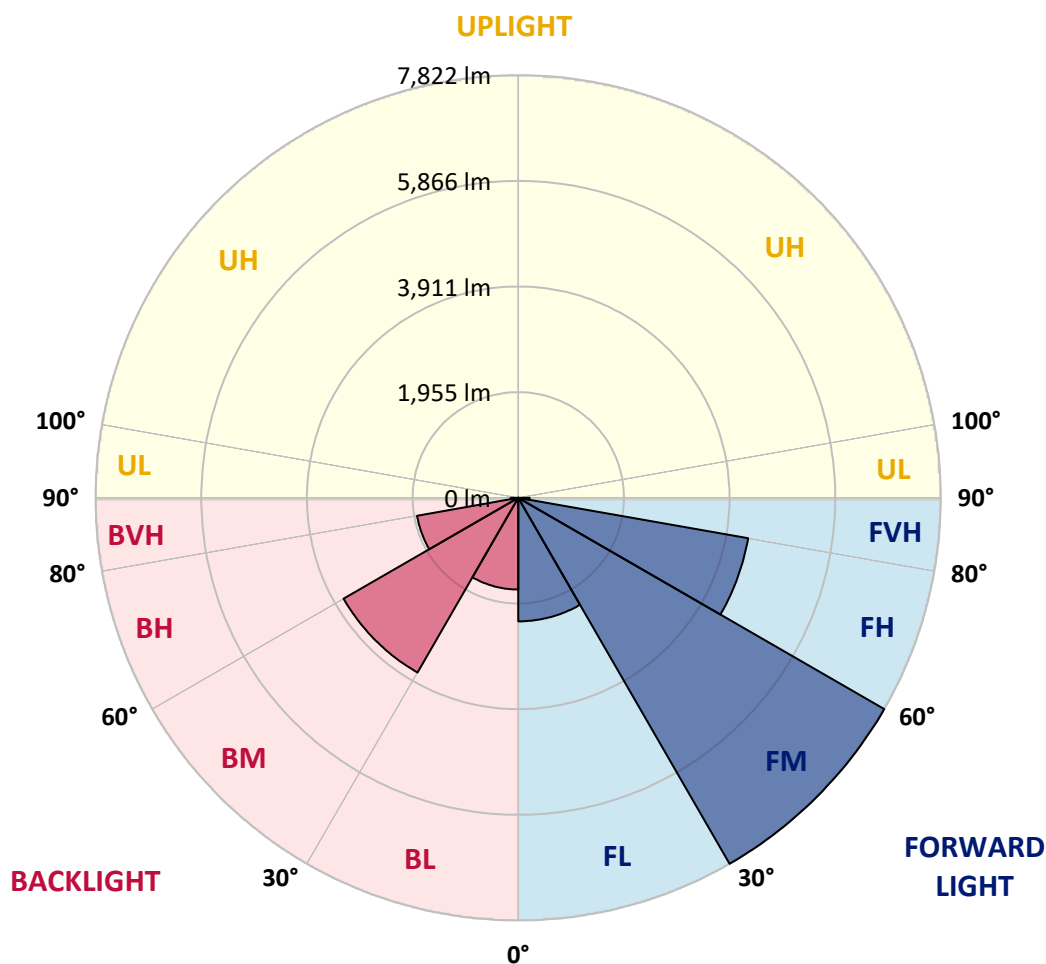
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2286.4	10.3			
FM	(30°-60°)	7821.7	35.4			
FH	(60°-80°)	4320.1	19.5			G2/5000
FVH	(80°-90°)	210.7	1.0			G2/225
BL	(0°-30°)	1697.8	7.7	B3/2500		
BM	(30°-60°)	3733.4	16.9	B3/5000		
BH	(60°-80°)	1902.2	8.6	B3/2500		G3/2500
BVH	(80°-90°)	137.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2
2.5°	4601.6	4593.4	4560.6	4564.7	4564.7	4560.6	4511.3	4490.8	4490.8	4486.7	4441.5
5°	4765.8	4753.5	4716.6	4708.4	4691.9	4671.4	4593.4	4548.3	4527.7	4523.6	4462.1
7.5°	4958.8	4942.3	4897.2	4872.6	4831.5	4778.1	4679.6	4609.8	4560.6	4556.5	4470.3
10°	5151.7	5135.3	5081.9	5036.8	4979.3	4893.1	4765.8	4663.2	4585.2	4577.0	4474.4
12.5°	5381.6	5365.2	5299.5	5242.0	5155.8	5040.9	4872.6	4733.0	4626.3	4613.9	4486.7
15°	5623.8	5599.1	5533.5	5467.8	5361.0	5213.3	5012.1	4827.4	4691.9	4671.4	4523.6
17.5°	5824.9	5792.1	5738.7	5673.0	5554.0	5381.6	5151.7	4921.8	4753.5	4737.1	4560.6
20°	5997.3	5972.7	5915.2	5853.6	5726.4	5537.6	5283.1	5016.2	4811.0	4790.5	4589.3
22.5°	6161.5	6128.7	6095.8	6050.7	5911.1	5701.8	5434.9	5131.2	4884.9	4860.2	4626.3
25°	6350.3	6313.4	6301.1	6276.4	6112.3	5898.8	5619.7	5274.8	4987.5	4958.8	4691.9
27.5°	6584.3	6543.3	6518.6	6518.6	6321.6	6099.9	5816.7	5443.1	5106.5	5081.9	4774.0
30°	6830.6	6781.4	6744.4	6744.4	6522.7	6301.1	6009.6	5611.4	5242.0	5213.3	4880.8
32.5°	7048.2	6998.9	6957.9	6953.8	6723.9	6502.2	6210.8	5796.2	5406.2	5369.3	5012.1
35°	7216.5	7171.3	7134.4	7142.6	6925.0	6707.5	6436.5	6042.5	5611.4	5570.4	5184.5
37.5°	7319.1	7302.7	7282.2	7310.9	7109.8	6904.5	6670.5	6280.6	5845.4	5808.5	5398.0
40°	7372.5	7360.2	7442.3	7479.2	7265.7	7081.0	6904.5	6526.8	6099.9	6058.9	5644.3
42.5°	7450.5	7553.1	7585.9	7577.7	7380.7	7216.5	7118.0	6793.7	6399.6	6362.7	5939.8
45°	7171.3	7146.7	7327.3	7425.8	7388.9	7302.7	7319.1	7113.9	6748.5	6711.6	6280.6
47.5°	6797.8	6764.9	6867.6	7109.8	7253.4	7335.5	7499.7	7446.4	7150.8	7118.0	6678.7
50°	6009.6	6054.8	6436.5	6760.8	7044.1	7327.3	7651.6	7803.5	7594.1	7561.3	7105.6
52.5°	5135.3	5180.4	5578.6	6325.7	6789.6	7265.7	7762.4	8160.6	8074.4	8037.5	7561.3
55°	4499.0	4597.5	5049.1	5590.9	6428.3	7072.8	7828.1	8526.0	8591.6	8558.8	8058.0
57.5°	3866.9	3940.7	4281.4	4761.7	5935.7	6736.2	7824.0	8866.7	9133.5	9100.6	8562.9
60°	3123.9	3218.3	3489.2	4006.4	5278.9	6333.9	7709.1	9133.5	9654.8	9630.2	9051.4
62.5°	2614.8	2643.6	2836.5	3283.9	4433.3	5824.9	7450.5	9277.2	10126.9	10110.5	9490.6
65°	2105.8	2109.9	2286.4	2660.0	3616.4	5192.7	7011.2	9223.8	10484.0	10492.2	9806.7
67.5°	1625.6	1646.1	1806.2	2089.4	2873.5	4371.8	6383.2	8862.6	10488.1	10508.6	9626.1
70°	1124.8	1141.2	1383.4	1658.4	2220.8	3485.1	5533.5	7906.1	9626.1	9642.5	8628.6
72.5°	792.3	800.5	1059.1	1325.9	1736.4	2627.2	4174.7	6539.2	8205.8	8218.1	7257.5
75°	591.1	599.3	747.1	1005.7	1330.0	1818.5	2852.9	5008.0	6555.6	6555.6	5730.5
77.5°	418.7	422.8	484.4	693.7	886.7	1227.4	1715.9	3279.8	4811.0	4819.2	4174.7
80°	283.2	287.3	316.1	468.0	554.2	665.0	931.8	1720.0	3033.5	3045.9	2651.8
82.5°	147.8	156.0	176.5	238.1	279.1	369.4	480.3	874.4	1678.9	1711.8	1592.7
85°	57.5	57.5	65.7	78.0	102.6	143.7	221.7	332.5	759.4	784.0	701.9
87.5°	20.5	20.5	24.6	24.6	28.7	32.8	36.9	49.3	86.2	86.2	82.1
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°	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2	4466.2
2.5°	4425.1	4425.1	4404.6	4412.8	4408.7	4400.5	4392.3	4404.6	4392.3	4363.5	4359.4
5°	4433.3	4425.1	4392.3	4388.2	4375.9	4359.4	4338.9	4347.1	4326.6	4302.0	4297.9
7.5°	4437.4	4421.0	4375.9	4359.4	4334.8	4302.0	4269.1	4269.1	4240.4	4215.8	4211.7
10°	4429.2	4408.7	4347.1	4314.3	4269.1	4219.9	4174.7	4162.4	4129.6	4100.8	4100.8
12.5°	4433.3	4404.6	4326.6	4273.2	4211.7	4150.1	4092.6	4076.2	4047.5	4018.7	4014.6
15°	4458.0	4416.9	4318.4	4248.6	4158.3	4088.5	4026.9	4014.6	3990.0	3969.5	3969.5
17.5°	4482.6	4429.2	4306.1	4207.6	4096.7	4018.7	3961.3	3961.3	3944.8	3932.5	3932.5
20°	4494.9	4433.3	4281.4	4150.1	4022.8	3940.7	3887.4	3895.6	3891.5	3887.4	3887.4
22.5°	4523.6	4441.5	4260.9	4096.7	3944.8	3858.6	3809.4	3821.7	3817.6	3817.6	3821.7
25°	4568.8	4462.1	4244.5	4047.5	3871.0	3776.5	3723.2	3731.4	3731.4	3731.4	3731.4
27.5°	4630.4	4503.1	4240.4	4002.3	3797.1	3690.3	3624.7	3624.7	3608.2	3612.3	3616.4
30°	4724.8	4581.1	4248.6	3961.3	3719.1	3583.6	3505.6	3493.3	3489.2	3497.4	3501.5
32.5°	4839.7	4687.8	4297.9	3932.5	3637.0	3464.6	3366.0	3361.9	3349.6	3349.6	3349.6
35°	4983.4	4790.5	4343.0	3928.4	3554.9	3337.3	3230.6	3218.3	3189.5	3177.2	3177.2
37.5°	5168.1	4950.6	4396.4	3899.7	3485.1	3214.2	3086.9	3045.9	3013.0	3008.9	3008.9
40°	5393.9	5131.2	4474.4	3866.9	3411.2	3086.9	2918.6	2848.8	2852.9	2869.4	2869.4
42.5°	5660.7	5352.8	4572.9	3850.4	3304.5	2955.6	2721.6	2639.5	2668.2	2684.6	2688.7
45°	5972.7	5615.6	4683.7	3829.9	3206.0	2807.8	2512.2	2409.6	2421.9	2426.0	2430.1
47.5°	6333.9	5907.0	4798.7	3813.5	3095.1	2623.1	2282.3	2146.9	2142.8	2118.1	2126.4
50°	6711.6	6214.9	4917.7	3784.8	2959.7	2405.5	2040.2	1880.1	1847.2	1810.3	1814.4
52.5°	7113.9	6531.0	5028.5	3739.6	2791.4	2183.8	1810.3	1637.9	1572.2	1531.1	1539.4
55°	7557.2	6855.2	5135.3	3669.8	2614.8	1962.2	1605.0	1428.5	1346.4	1313.6	1317.7
57.5°	7963.6	7167.2	5213.3	3583.6	2421.9	1761.0	1424.4	1252.0	1198.6	1194.5	1198.6
60°	8357.7	7429.9	5246.1	3464.6	2224.9	1576.3	1256.1	1124.8	1087.8	1108.3	1112.4
62.5°	8690.2	7598.2	5229.7	3304.5	2023.7	1399.8	1120.6	1026.2	1001.6	1042.7	1046.8
65°	8883.1	7651.6	5114.8	3074.6	1806.2	1227.4	993.4	890.8	878.5	903.1	915.4
67.5°	8628.6	7319.1	4802.8	2758.5	1564.0	1067.3	870.2	788.1	767.6	788.1	788.1
70°	7647.5	6342.1	4063.9	2257.7	1297.2	911.3	755.3	697.8	681.4	697.8	693.7
72.5°	6370.9	5274.8	3201.9	1761.0	1022.1	767.6	656.8	603.4	587.0	570.6	562.4
75°	4942.3	4006.4	2323.4	1293.1	771.7	615.7	550.1	500.8	459.8	476.2	468.0
77.5°	3620.6	2811.9	1646.1	894.9	554.2	476.2	431.0	394.1	365.3	398.2	394.1
80°	2331.6	1818.5	1100.1	599.3	381.8	332.5	316.1	295.6	324.3	422.8	431.0
82.5°	1424.4	1153.5	656.8	390.0	250.4	221.7	205.2	205.2	332.5	365.3	369.4
85°	636.3	611.6	357.1	201.1	139.6	127.3	114.9	147.8	135.5	98.5	102.6
87.5°	102.6	106.7	78.0	69.8	53.4	53.4	41.0	28.7	20.5	12.3	12.3
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)