

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: P836185

Luminaire Tested: **ARCH3-150-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21322 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

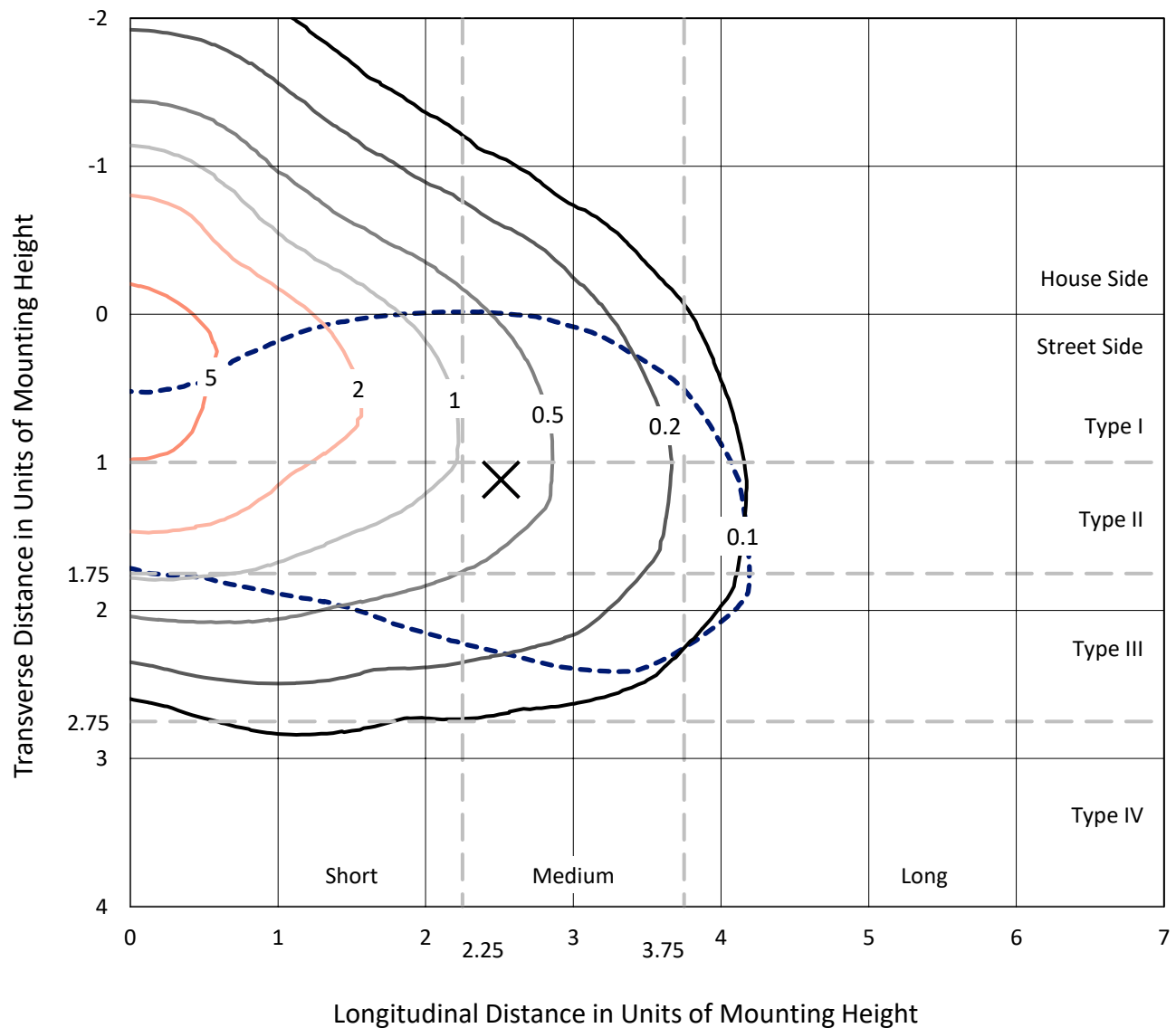
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

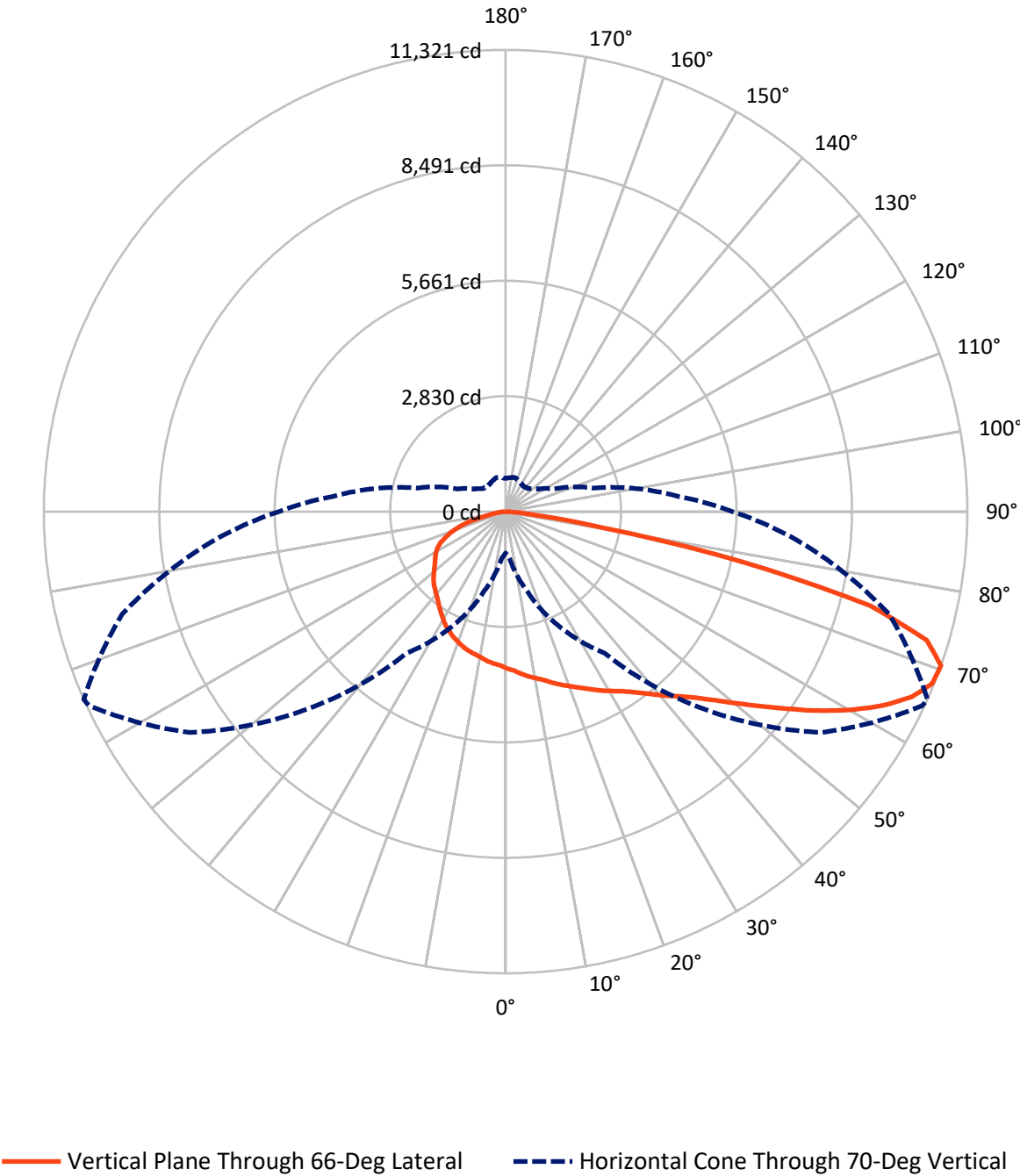
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	5649.8	0.0	5649.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15672.2	0.0	15672.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	21322.0	0.0	21322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.8	1.7
10°-20°	1109.2	5.2
20°-30°	1859.3	8.7
30°-40°	2784.0	13.1
40°-50°	3722.2	17.5
50°-60°	4345.8	20.4
60°-70°	4321.3	20.3
70°-80°	2558.3	12.0
80°-90°	252.1	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°	21322.0	100.0
0°-180°	21322.0	100.0

Coefficient of Utilization



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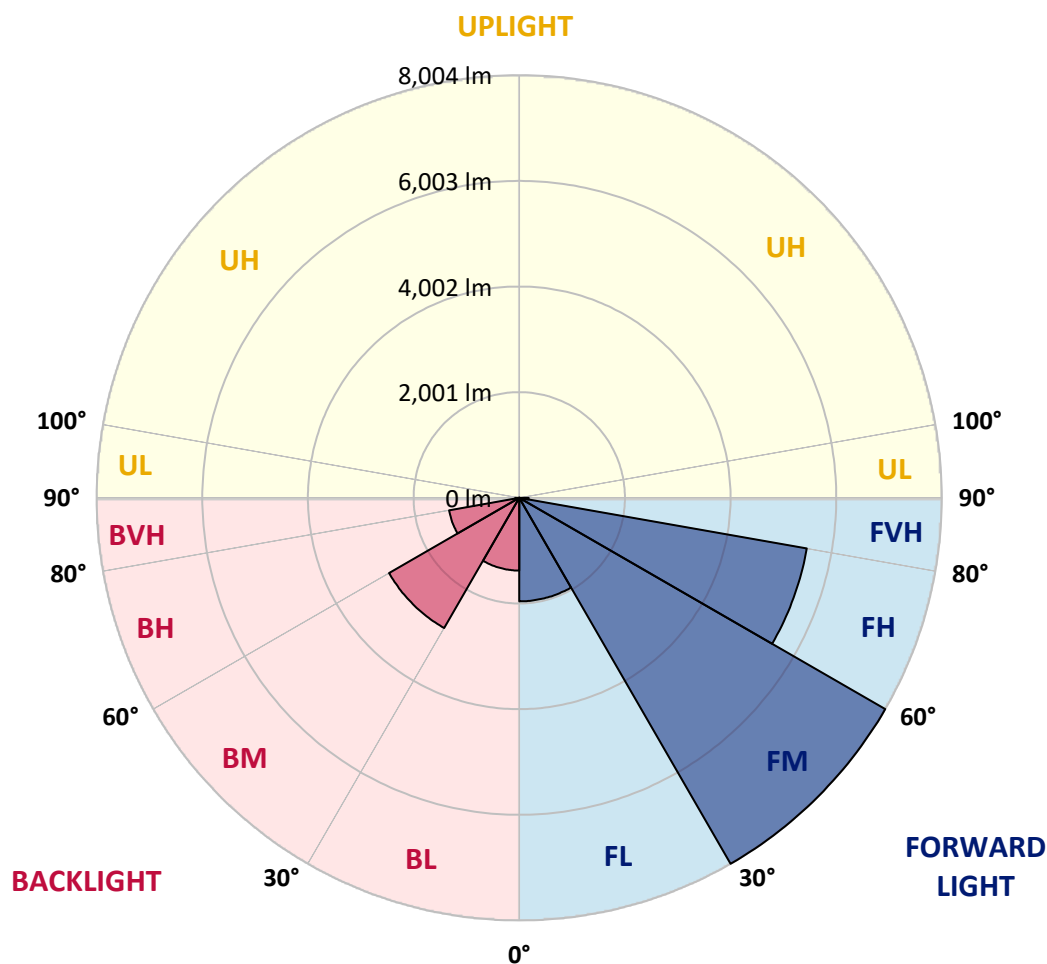
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1961.1	9.2			
FM	(30°-60°)	8004.0	37.5			
FH	(60°-80°)	5529.9	25.9			G3/7500
FVH	(80°-90°)	177.2	0.8			G2/225
BL	(0°-30°)	1377.2	6.5	B3/2500		
BM	(30°-60°)	2848.1	13.4	B3/5000		
BH	(60°-80°)	1349.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	74.9	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°	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1
2.5°	3989.6	3983.3	3980.2	3967.6	3939.3	3951.9	3923.6	3904.7	3901.6	3857.6	3832.4
5°	4153.1	4149.9	4143.7	4124.8	4080.8	4087.1	4039.9	4005.3	3995.9	3926.7	3873.3
7.5°	4291.4	4285.1	4282.0	4256.8	4209.7	4206.5	4149.9	4099.6	4083.9	3989.6	3907.9
10°	4398.3	4388.9	4395.2	4370.0	4319.7	4310.3	4238.0	4172.0	4156.2	4036.8	3923.6
12.5°	4489.5	4483.2	4492.6	4470.6	4429.8	4420.3	4348.0	4263.1	4244.3	4105.9	3958.2
15°	4590.1	4568.1	4587.0	4577.5	4549.2	4546.1	4480.1	4385.7	4360.6	4194.0	4011.6
17.5°	4643.5	4631.0	4653.0	4656.1	4643.5	4665.5	4602.7	4489.5	4467.5	4275.7	4058.8
20°	4681.3	4662.4	4687.6	4706.4	4715.9	4759.9	4709.6	4599.5	4574.4	4354.3	4102.8
22.5°	4810.2	4769.3	4772.4	4785.0	4791.3	4854.2	4822.7	4715.9	4690.7	4451.8	4156.2
25°	5134.0	5052.2	4998.8	4961.1	4917.1	4970.5	4951.6	4847.9	4825.9	4568.1	4222.3
27.5°	5637.0	5533.3	5426.4	5316.3	5143.4	5121.4	5090.0	4995.7	4970.5	4684.4	4288.3
30°	6209.2	6105.5	5979.7	5803.6	5479.8	5310.0	5237.7	5134.0	5105.7	4788.2	4351.2
32.5°	6778.3	6687.1	6561.3	6347.5	5885.4	5539.6	5385.5	5278.6	5250.3	4901.3	4426.6
35°	7221.5	7165.0	7083.2	6816.0	6287.8	5809.9	5599.3	5470.4	5438.9	5080.5	4564.9
37.5°	7579.9	7539.1	7469.9	7190.1	6580.2	6080.3	5844.5	5696.7	5662.2	5275.5	4712.7
40°	8108.1	8001.2	7944.6	7539.1	6834.8	6325.5	6121.2	5967.1	5929.4	5483.0	4832.2
42.5°	8557.7	8479.1	8409.9	7850.3	7076.9	6536.2	6382.1	6240.6	6190.3	5687.3	4961.1
45°	8633.2	8664.6	8630.0	8004.4	7460.5	6743.7	6646.2	6555.0	6507.9	5964.0	5156.0
47.5°	8636.3	8636.3	8431.9	8092.4	7935.2	6976.3	6929.2	6960.6	6910.3	6316.1	5388.6
50°	8409.9	8450.8	8343.9	8114.4	8061.0	7209.0	7275.0	7444.8	7394.5	6690.2	5640.2
52.5°	7941.5	8076.7	8073.5	8079.8	7878.6	7407.0	7639.7	8026.4	7941.5	7111.5	5907.4
55°	7114.6	7385.0	7627.1	7834.6	7721.4	7526.5	8086.1	8645.7	8557.7	7583.1	6177.8
57.5°	6407.3	6580.2	6882.0	7469.9	7535.9	7630.2	8504.3	9293.4	9214.8	8105.0	6460.7
60°	5599.3	5838.2	6140.0	6976.3	7309.6	7765.4	8963.3	9925.3	9849.8	8633.2	6734.2
62.5°	4357.4	4665.5	5269.2	6218.6	6979.5	7850.3	9324.8	10481.8	10447.2	9133.0	6979.5
65°	3037.0	3310.5	4156.2	5288.0	6454.4	7812.6	9614.1	10978.5	10947.1	9541.7	7152.4
67.5°	1773.2	2090.7	3046.4	4256.8	5527.0	7551.7	9708.4	11270.9	11270.9	9790.1	7199.5
70°	1012.3	1160.1	2009.0	3103.0	4238.0	6831.7	9444.3	11267.7	11321.2	9733.5	7004.6
72.5°	707.4	773.4	1351.9	2087.6	2873.5	5527.0	8752.6	10723.8	10796.2	9199.1	6338.1
75°	550.2	597.3	952.6	1424.2	1810.9	3753.8	7240.4	9041.9	9233.6	7840.9	5124.6
77.5°	418.1	452.7	556.5	889.7	1160.1	2156.7	4778.7	5929.4	5942.0	4800.7	2747.8
80°	305.0	339.5	371.0	543.9	616.2	1009.2	1804.6	2477.4	2408.2	2323.3	1487.1
82.5°	182.3	216.9	226.4	295.5	301.8	430.7	631.9	798.6	767.1	1021.8	697.9
85°	78.6	110.0	116.3	135.2	128.9	176.1	251.5	210.6	188.6	216.9	150.9
87.5°	18.9	31.4	31.4	34.6	28.3	44.0	47.2	34.6	31.4	37.7	37.7
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°	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1	3848.1
2.5°	3826.1	3816.7	3819.8	3766.4	3750.7	3735.0	3725.5	3719.2	3712.9	3722.4	3731.8
5°	3854.4	3832.4	3807.3	3728.7	3697.2	3662.6	3637.5	3615.5	3606.1	3606.1	3615.5
7.5°	3876.4	3838.7	3785.3	3681.5	3624.9	3577.8	3536.9	3508.6	3492.9	3492.9	3502.3
10°	3879.6	3826.1	3741.2	3615.5	3540.0	3470.9	3423.7	3392.3	3370.3	3370.3	3376.6
12.5°	3898.4	3826.1	3716.1	3565.2	3470.9	3386.0	3329.4	3282.2	3272.8	3272.8	3279.1
15°	3929.9	3841.8	3700.4	3521.2	3408.0	3310.5	3247.7	3197.3	3178.5	3191.1	3194.2
17.5°	3958.2	3851.3	3672.1	3464.6	3329.4	3222.5	3153.3	3109.3	3084.2	3112.5	3112.5
20°	3977.0	3851.3	3631.2	3392.3	3244.5	3125.0	3059.0	3005.6	2986.7	3021.3	3024.4
22.5°	4005.3	3848.1	3587.2	3320.0	3153.3	3027.6	2961.6	2920.7	2911.3	2949.0	2961.6
25°	4036.8	3854.4	3540.0	3238.2	3052.7	2930.1	2879.8	2861.0	2867.2	2914.4	2930.1
27.5°	4071.4	3867.0	3492.9	3147.0	2942.7	2832.7	2804.4	2813.8	2838.9	2898.7	2917.5
30°	4102.8	3870.1	3426.9	3040.2	2816.9	2713.2	2725.8	2766.6	2804.4	2864.1	2886.1
32.5°	4143.7	3873.3	3357.7	2923.8	2681.7	2606.3	2662.9	2728.9	2766.6	2823.2	2848.4
35°	4244.3	3926.7	3304.2	2810.6	2556.0	2515.1	2609.4	2694.3	2716.3	2766.6	2788.6
37.5°	4360.6	4014.8	3275.9	2694.3	2433.4	2423.9	2543.4	2628.3	2634.6	2666.0	2688.0
40°	4432.9	4052.5	3244.5	2596.9	2323.3	2329.6	2452.2	2518.3	2505.7	2527.7	2543.4
42.5°	4505.2	4065.1	3178.5	2515.1	2219.6	2225.9	2320.2	2367.4	2373.6	2420.8	2442.8
45°	4627.8	4099.6	3106.2	2439.7	2125.3	2103.3	2159.9	2222.7	2304.5	2395.7	2420.8
47.5°	4791.3	4172.0	3030.7	2348.5	2034.1	1961.8	1983.8	2093.8	2178.7	2263.6	2279.3
50°	4957.9	4244.3	2961.6	2238.5	1942.9	1810.9	1820.3	1920.9	1990.1	2056.1	2065.5
52.5°	5121.4	4307.1	2901.8	2134.7	1839.2	1631.7	1669.4	1773.2	1820.3	1851.8	1861.2
55°	5284.9	4360.6	2848.4	2046.7	1719.7	1490.2	1524.8	1622.3	1669.4	1685.1	1691.4
57.5°	5454.7	4423.5	2807.5	1971.2	1584.5	1364.5	1386.5	1455.6	1499.6	1518.5	1512.2
60°	5596.1	4476.9	2785.5	1892.6	1449.3	1248.1	1241.8	1304.7	1367.6	1386.5	1380.2
62.5°	5706.2	4511.5	2750.9	1792.0	1329.9	1131.8	1100.4	1182.1	1248.1	1260.7	1270.1
65°	5765.9	4514.6	2666.0	1663.1	1207.3	1006.0	984.0	1065.8	1106.7	1119.2	1119.2
67.5°	5756.5	4464.3	2499.4	1490.2	1094.1	892.9	874.0	924.3	984.0	993.5	984.0
70°	5561.6	4256.8	2232.2	1307.9	958.9	792.3	757.7	808.0	864.6	830.0	814.3
72.5°	5008.2	3719.2	1839.2	1106.7	808.0	666.5	650.8	701.1	704.2	710.5	694.8
75°	3951.9	2769.8	1377.0	861.4	653.9	559.6	556.5	547.0	559.6	584.8	565.9
77.5°	2075.0	1383.3	745.1	528.2	474.7	449.6	427.6	424.4	462.2	477.9	459.0
80°	1125.5	776.5	427.6	317.5	289.2	292.4	320.7	314.4	355.3	364.7	349.0
82.5°	490.4	367.8	210.6	191.8	191.8	188.6	198.1	220.1	264.1	264.1	210.6
85°	106.9	91.2	81.7	94.3	106.9	106.9	106.9	106.9	75.5	40.9	28.3
87.5°	34.6	34.6	34.6	37.7	40.9	40.9	34.6	25.2	15.7	3.1	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)