

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: P841794

Luminaire Tested: **ARCH4-230-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

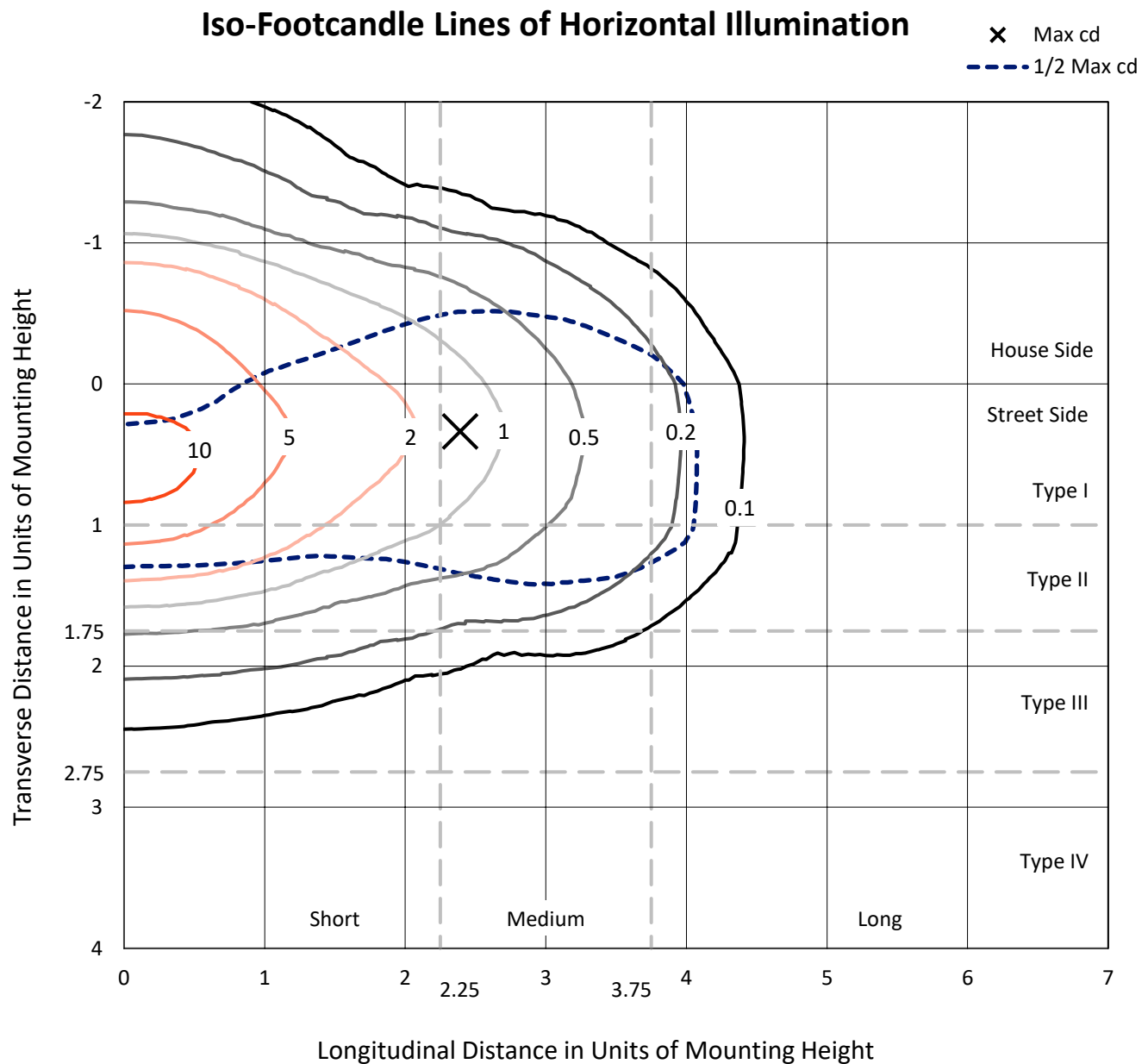
Lumens per Lamp: N/A
Luminaire Lumens: 30425 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 231.2
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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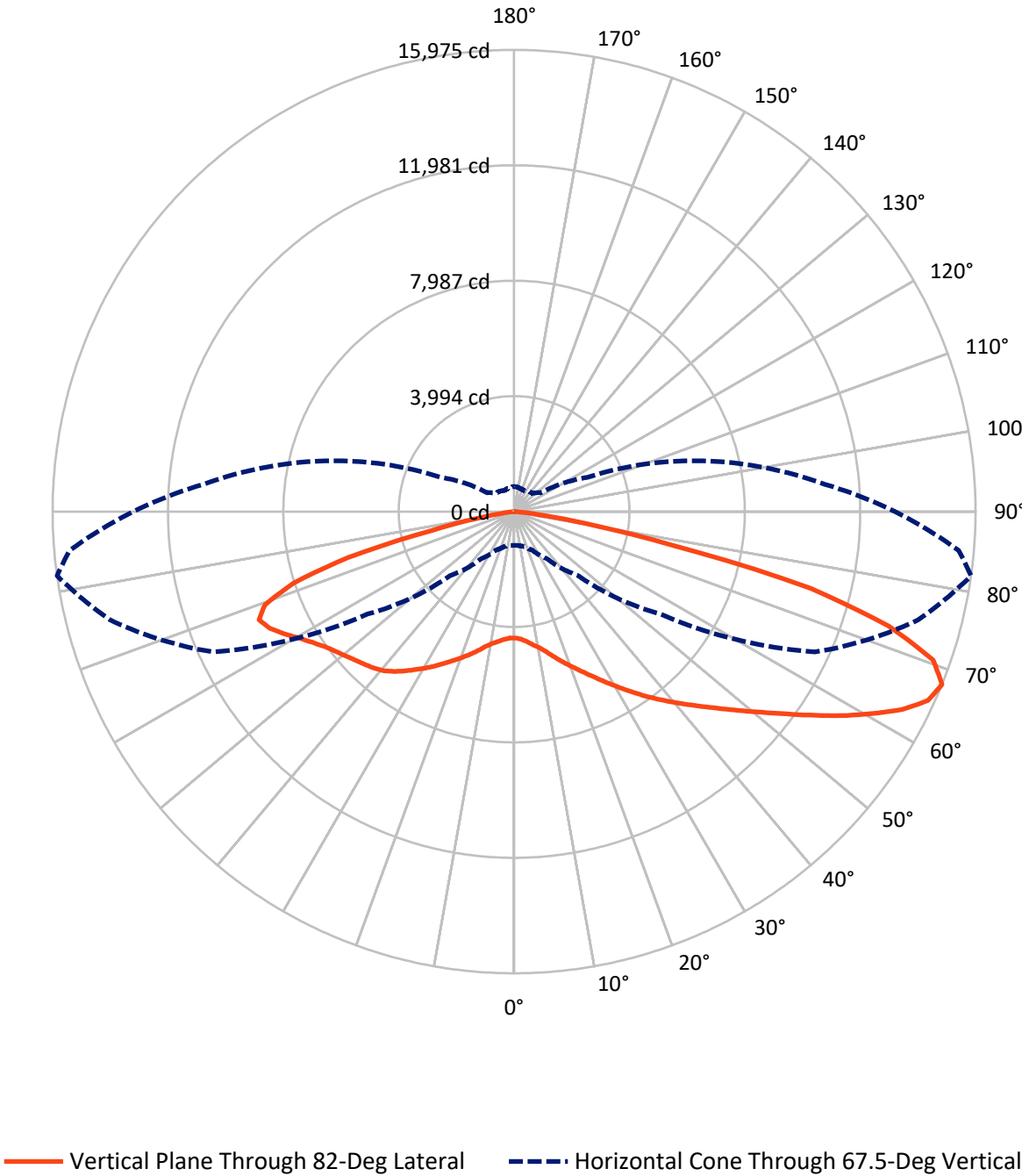
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Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9265.6	0.0	9265.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	21159.4	0.0	21159.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	30425.0	0.0	30425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	1.5
10°-20°	1628.1	5.4
20°-30°	3272.1	10.8
30°-40°	5140.0	16.9
40°-50°	6261.5	20.6
50°-60°	5916.3	19.4
60°-70°	4885.5	16.1
70°-80°	2660.4	8.7
80°-90°	209.2	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°	30425.0	100.0
0°-180°	30425.0	100.0

Coefficient of Utilization



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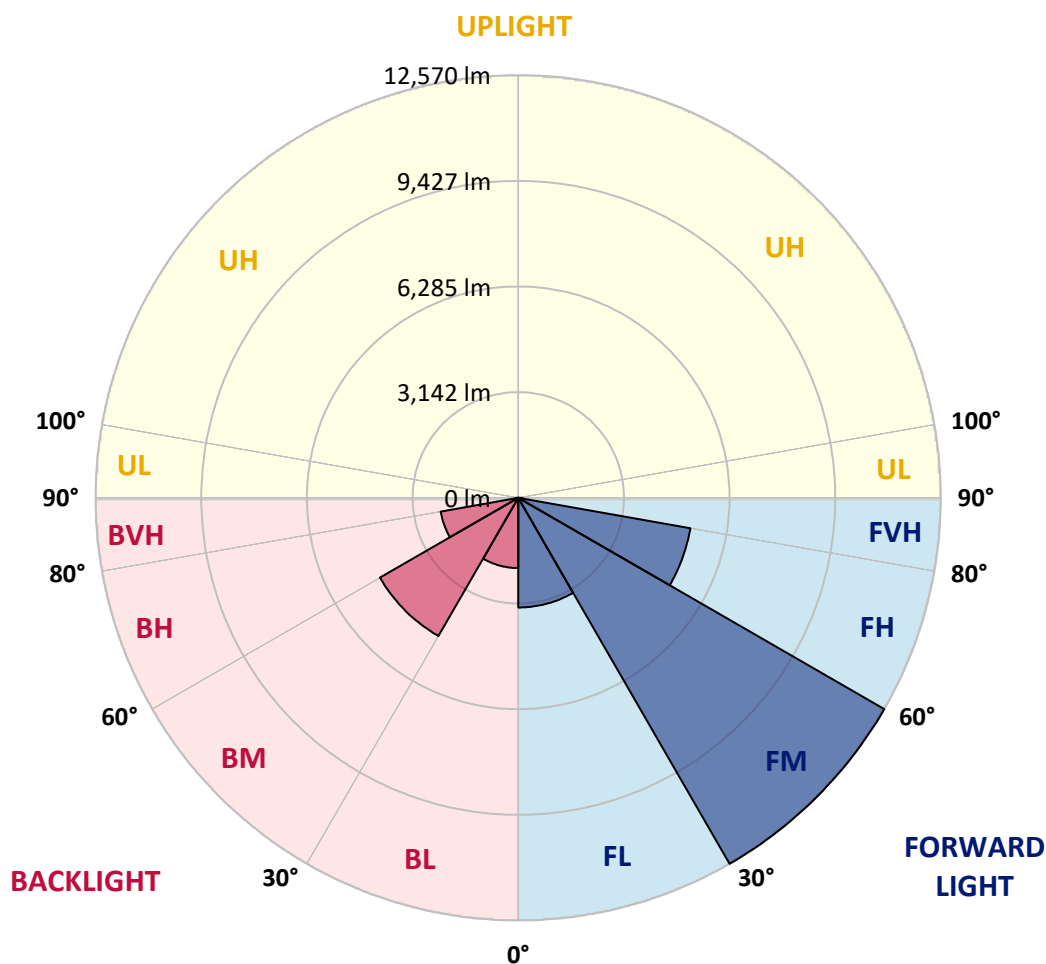
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3262.7	10.7			
FM	(30°-60°)	12569.9	41.3			
FH	(60°-80°)	5200.7	17.1			G3/7500
FVH	(80°-90°)	126.1	0.4			G2/225
BL	(0°-30°)	2089.5	6.9	B3/2500		
BM	(30°-60°)	4747.9	15.6	B3/5000		
BH	(60°-80°)	2345.2	7.7	B3/2500		G3/2500
BVH	(80°-90°)	83.1	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6
2.5°	4572.4	4572.4	4607.7	4607.7	4576.8	4528.2	4514.9	4461.9	4413.3	4413.3	4417.8
5°	5009.7	5005.3	5031.8	4996.5	4921.4	4824.2	4757.9	4643.1	4545.9	4514.9	4510.5
7.5°	5544.3	5539.9	5553.1	5495.7	5354.3	5195.3	5062.7	4877.2	4718.2	4651.9	4634.2
10°	6140.7	6136.3	6123.0	6025.8	5835.9	5588.5	5389.7	5133.4	4894.9	4788.8	4766.8
12.5°	6825.4	6816.6	6785.7	6644.3	6383.7	6065.6	5778.4	5447.1	5129.0	4983.2	4934.6
15°	7589.7	7576.5	7519.0	7346.7	6997.7	6595.7	6224.6	5800.5	5411.8	5221.8	5155.5
17.5°	8393.7	8393.7	8305.4	8049.2	7660.4	7161.2	6701.7	6162.8	5707.7	5473.6	5394.1
20°	9211.0	9206.6	9096.2	8786.9	8327.5	7753.2	7170.0	6578.0	6012.6	5729.8	5632.6
22.5°	10072.5	10063.6	9926.7	9573.3	9025.5	8376.1	7695.7	6988.9	6348.3	6008.1	5884.5
25°	11062.1	11048.8	10880.9	10448.0	9798.6	9065.2	8287.7	7470.4	6732.7	6317.4	6171.6
27.5°	12113.5	12095.8	11897.0	11393.4	10682.1	9798.6	8941.5	8027.1	7156.8	6662.0	6498.5
30°	13050.0	13036.8	12820.3	12303.4	11486.2	10527.5	9564.4	8583.7	7603.0	7028.6	6825.4
32.5°	13756.9	13756.9	13562.5	13054.5	12206.3	11225.5	10191.8	9109.4	8066.8	7421.8	7183.3
35°	14185.4	14198.7	14030.8	13624.4	12824.7	11883.8	10841.2	9727.9	8561.6	7841.5	7585.3
37.5°	14247.3	14291.4	14194.2	13920.3	13253.3	12431.6	11477.3	10324.3	9074.1	8265.6	7978.5
40°	13960.1	13991.0	13995.4	13889.4	13430.0	12824.7	12038.4	10956.0	9617.5	8711.8	8380.5
42.5°	13385.8	13407.9	13447.6	13478.6	13301.9	12997.0	12466.9	11543.6	10196.2	9166.8	8778.1
45°	12643.6	12639.2	12705.5	12838.0	12829.2	12899.8	12705.5	12078.1	10797.0	9683.7	9219.9
47.5°	11534.8	11512.7	11746.8	12047.2	12197.4	12528.8	12709.9	12497.8	11450.8	10253.6	9723.5
50°	9798.6	9776.5	10289.0	10995.8	11437.6	11941.2	12466.9	12749.6	12135.6	10894.2	10271.3
52.5°	7686.9	7664.8	8314.2	9551.2	10514.3	11247.6	11976.5	12807.1	12785.0	11609.9	10889.8
55°	5716.6	5698.9	6330.6	7669.2	9228.7	10443.6	11375.7	12656.9	13394.6	12431.6	11640.8
57.5°	4029.0	4020.2	4568.0	5676.8	7576.5	9462.8	10797.0	12365.3	13955.7	13324.0	12489.0
60°	2827.4	2814.1	3211.7	4068.8	5729.8	7982.9	10222.7	11976.5	14375.4	14203.1	13390.2
62.5°	1904.1	1895.2	2178.0	2893.6	4068.8	6145.1	9352.4	11715.9	14613.9	15086.6	14300.3
65°	1444.6	1440.2	1568.3	1961.5	2880.4	4413.3	7969.6	11685.0	14644.9	15749.3	15073.4
67.5°	1166.3	1170.7	1241.4	1466.7	1992.4	3136.6	6180.4	11490.6	14481.4	15974.6	15448.9
70°	954.2	954.2	985.2	1135.4	1471.1	2116.1	4316.1	10607.0	14026.4	15387.0	15002.7
72.5°	728.9	733.3	830.5	918.9	1108.9	1484.4	2765.5	8778.1	12952.9	13566.9	13275.4
75°	578.7	574.3	631.7	755.4	861.5	1060.3	1696.4	6295.3	11022.3	10602.6	10417.1
77.5°	415.3	410.9	455.0	561.1	653.8	751.0	1011.7	3176.4	5994.9	5508.9	5372.0
80°	282.7	273.9	313.7	388.8	432.9	441.8	494.8	1219.3	2615.3	2465.1	2434.2
82.5°	145.8	145.8	167.9	220.9	225.3	229.7	220.9	393.2	865.9	808.4	773.1
85°	57.4	57.4	61.8	75.1	75.1	79.5	79.5	101.6	92.8	88.4	83.9
87.5°	4.4	4.4	8.8	8.8	13.3	13.3	13.3	17.7	22.1	22.1	22.1
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°	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6	4373.6
2.5°	4408.9	4391.2	4333.8	4320.6	4311.7	4298.5	4302.9	4272.0	4258.7	4263.1	4245.5
5°	4488.4	4457.5	4386.8	4355.9	4347.1	4333.8	4347.1	4325.0	4302.9	4311.7	4302.9
7.5°	4598.9	4554.7	4466.4	4435.4	4431.0	4417.8	4435.4	4417.8	4400.1	4408.9	4391.2
10°	4713.7	4656.3	4559.1	4528.2	4528.2	4523.8	4541.5	4514.9	4497.3	4501.7	4492.9
12.5°	4881.6	4806.5	4700.5	4674.0	4660.7	4674.0	4678.4	4643.1	4612.1	4616.6	4603.3
15°	5084.8	5000.9	4886.0	4846.3	4837.4	4833.0	4815.4	4771.2	4731.4	4727.0	4713.7
17.5°	5305.7	5199.7	5062.7	5023.0	4983.2	4970.0	4925.8	4868.4	4806.5	4806.5	4788.8
20°	5517.8	5398.5	5235.0	5177.6	5120.2	5067.2	4992.1	4899.3	4819.8	4806.5	4788.8
22.5°	5747.5	5606.1	5416.2	5332.2	5230.6	5124.6	4996.5	4872.8	4771.2	4749.1	4735.8
25°	6003.7	5827.0	5601.7	5478.0	5314.6	5151.1	4961.1	4802.1	4682.8	4647.5	4638.6
27.5°	6286.5	6074.4	5800.5	5619.4	5380.8	5124.6	4881.6	4691.7	4545.9	4501.7	4488.4
30°	6573.6	6321.8	5981.6	5716.6	5380.8	5040.7	4735.8	4514.9	4347.1	4285.2	4276.4
32.5°	6860.8	6578.0	6145.1	5769.6	5327.8	4899.3	4545.9	4285.2	4095.3	4020.2	4037.8
35°	7205.4	6860.8	6295.3	5791.7	5239.5	4727.0	4329.4	4024.6	3830.2	3763.9	3777.2
37.5°	7563.2	7143.5	6414.6	5774.0	5115.8	4532.6	4086.4	3790.4	3547.5	3432.6	3445.8
40°	7872.4	7399.7	6498.5	5712.2	4956.7	4311.7	3847.9	3459.1	3123.4	3012.9	2999.7
42.5°	8164.0	7589.7	6542.7	5619.4	4775.6	4055.5	3507.7	3008.5	2672.7	2535.8	2540.2
45°	8468.8	7775.2	6525.0	5495.7	4550.3	3755.1	3070.3	2566.7	2270.7	2147.0	2151.4
47.5°	8817.8	7974.0	6507.4	5363.2	4276.4	3366.3	2650.7	2178.0	1921.7	1833.4	1824.5
50°	9188.9	8194.9	6485.3	5199.7	3971.6	2933.4	2235.4	1815.7	1599.2	1541.8	1528.5
52.5°	9608.6	8433.5	6472.0	5005.3	3604.9	2473.9	1864.3	1497.6	1351.8	1312.1	1307.7
55°	10112.2	8711.8	6489.7	4771.2	3163.1	2041.0	1550.6	1290.0	1192.8	1170.7	1166.3
57.5°	10726.3	9069.7	6542.7	4497.3	2699.2	1665.5	1320.9	1161.9	1100.0	1082.4	1082.4
60°	11393.4	9476.1	6639.9	4188.0	2235.4	1373.9	1170.7	1060.3	1033.8	1055.8	1055.8
62.5°	12113.5	9953.2	6812.2	3812.5	1802.4	1161.9	1051.4	976.3	958.7	1002.8	1007.2
65°	12780.6	10417.1	6922.6	3361.9	1431.4	1007.2	958.7	892.4	901.2	945.4	941.0
67.5°	13191.4	10801.4	6768.0	2796.4	1135.4	892.4	861.5	804.0	826.1	861.5	865.9
70°	12939.6	10584.9	6003.7	2111.7	888.0	777.5	755.4	720.1	737.8	781.9	799.6
72.5°	11707.1	9480.5	4669.6	1426.9	715.7	653.8	662.7	645.0	667.1	706.8	746.6
75°	9502.6	7165.6	3132.2	914.5	565.5	556.6	569.9	556.6	565.5	605.2	627.3
77.5°	4961.1	3494.4	1559.5	569.9	419.7	432.9	455.0	459.4	486.0	494.8	503.6
80°	2314.9	1572.7	649.4	318.1	278.3	304.8	349.0	353.4	362.3	375.5	379.9
82.5°	755.4	472.7	300.4	172.3	159.0	172.3	225.3	269.5	273.9	300.4	300.4
85°	79.5	48.6	66.3	70.7	61.8	75.1	101.6	97.2	44.2	26.5	26.5
87.5°	22.1	17.7	22.1	22.1	17.7	17.7	13.3	4.4	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)