

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: P836255

Luminaire Tested: **ARCH3-160-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

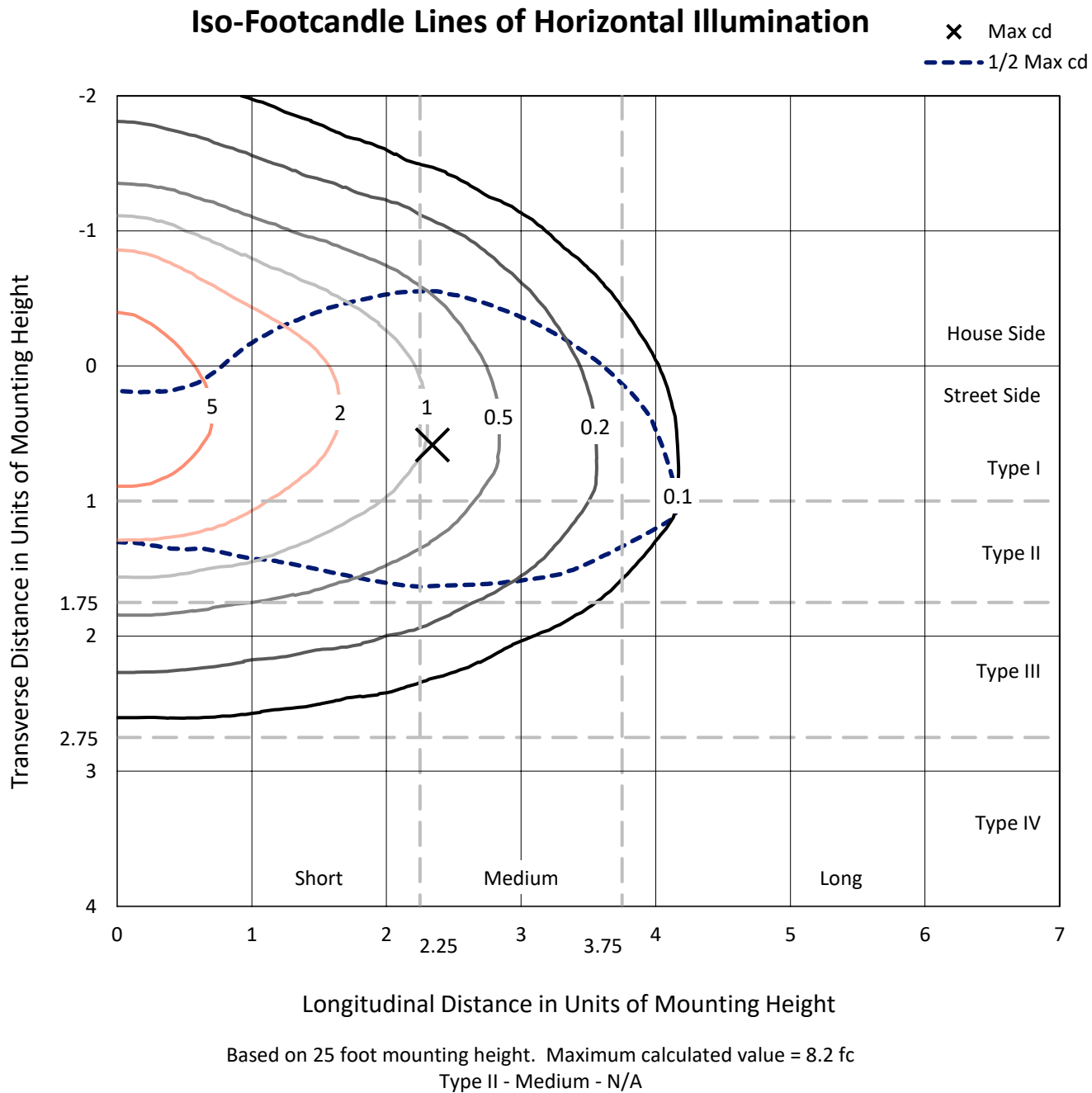
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22431 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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

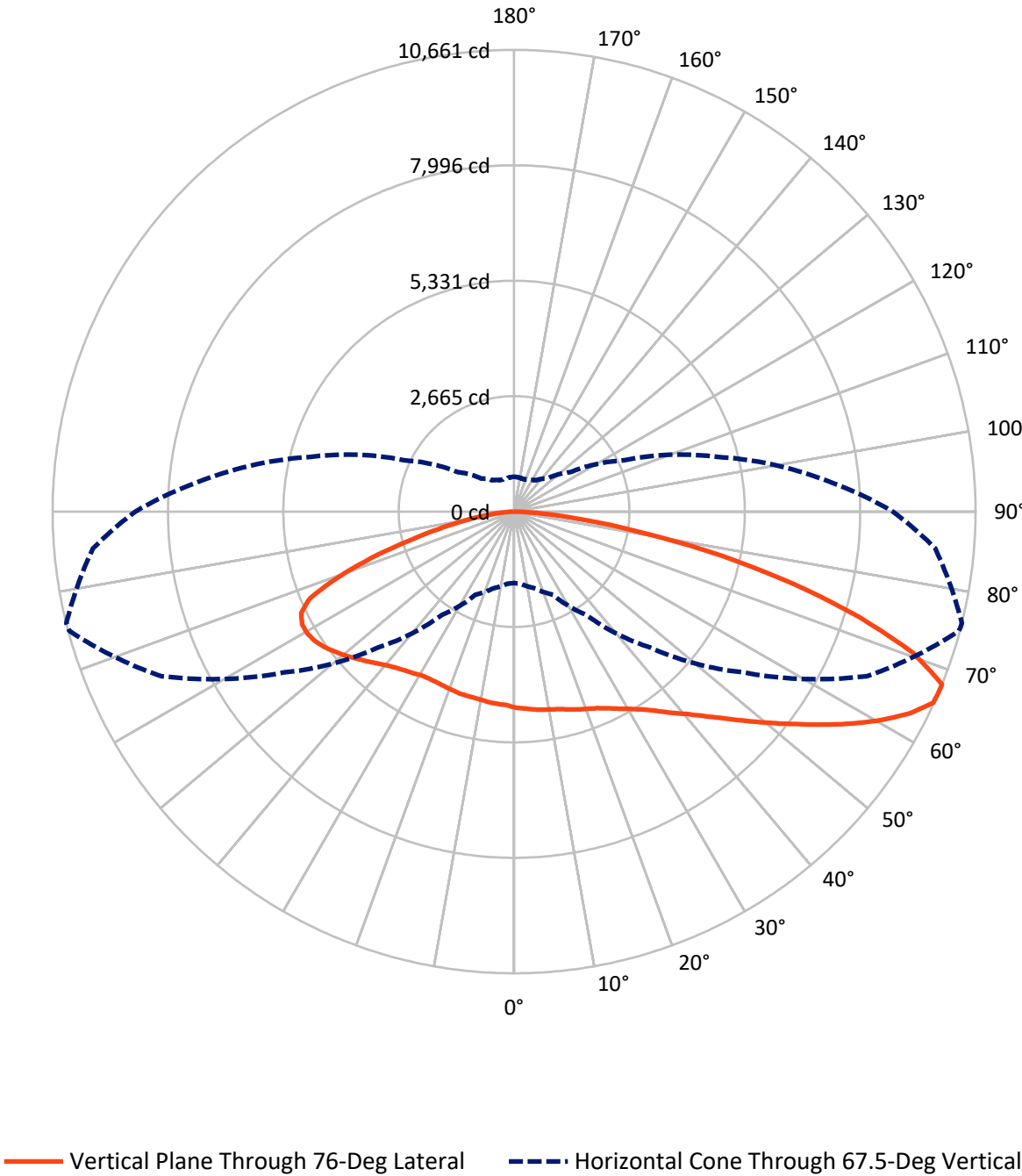


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7579.5	0.0	7579.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14851.4	0.0	14851.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	22431.0	0.0	22431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.9	1.9
10°-20°	1335.7	6.0
20°-30°	2269.4	10.1
30°-40°	3229.1	14.4
40°-50°	4078.2	18.2
50°-60°	4415.5	19.7
60°-70°	4106.9	18.3
70°-80°	2205.8	9.8
80°-90°	353.4	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°	22431.0	100.0
0°-180°	22431.0	100.0

Coefficient of Utilization



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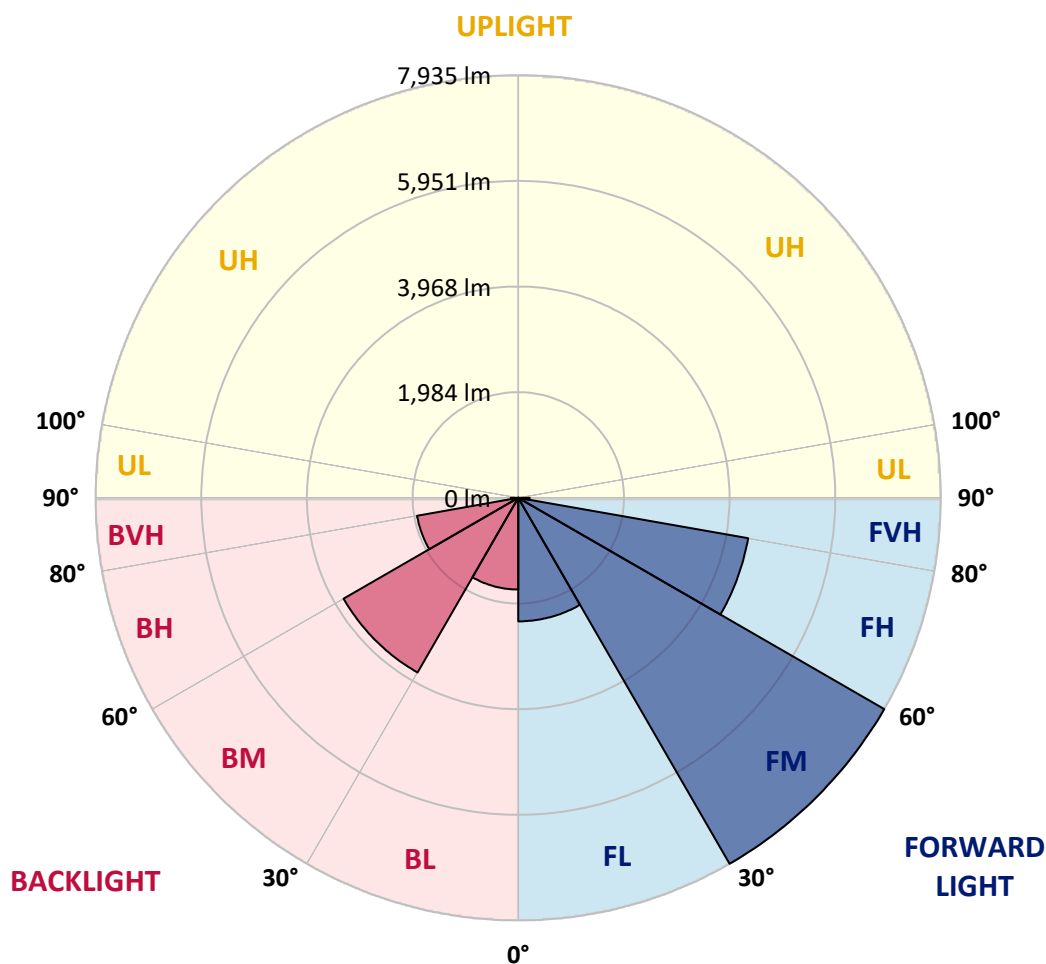
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2319.6	10.3			
FM	(30°-60°)	7935.2	35.4			
FH	(60°-80°)	4382.8	19.5			G2/5000
FVH	(80°-90°)	213.8	1.0			G2/225
BL	(0°-30°)	1722.5	7.7	B3/2500		
BM	(30°-60°)	3787.6	16.9	B3/5000		
BH	(60°-80°)	1929.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	139.6	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°	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0
2.5°	4668.4	4660.1	4626.8	4631.0	4631.0	4626.8	4576.8	4556.0	4556.0	4551.8	4506.0
5°	4835.0	4822.5	4785.0	4776.7	4760.1	4739.2	4660.1	4614.3	4593.5	4589.3	4526.8
7.5°	5030.8	5014.1	4968.3	4943.3	4901.7	4847.5	4747.6	4676.8	4626.8	4622.6	4535.2
10°	5226.5	5209.8	5155.7	5109.9	5051.6	4964.1	4835.0	4730.9	4651.8	4643.5	4539.3
12.5°	5459.7	5443.0	5376.4	5318.1	5230.7	5114.0	4943.3	4801.7	4693.4	4680.9	4551.8
15°	5705.4	5680.4	5613.8	5547.2	5438.9	5289.0	5084.9	4897.5	4760.1	4739.2	4589.3
17.5°	5909.5	5876.2	5822.0	5755.4	5634.6	5459.7	5226.5	4993.3	4822.5	4805.9	4626.8
20°	6084.4	6059.4	6001.1	5938.6	5809.5	5618.0	5359.8	5089.1	4880.8	4860.0	4655.9
22.5°	6251.0	6217.6	6184.3	6138.5	5996.9	5784.5	5513.8	5205.7	4955.8	4930.8	4693.4
25°	6442.5	6405.1	6392.6	6367.6	6201.0	5984.4	5701.2	5351.4	5059.9	5030.8	4760.1
27.5°	6679.9	6638.3	6613.3	6613.3	6413.4	6188.5	5901.1	5522.2	5180.7	5155.7	4843.4
30°	6929.8	6879.8	6842.3	6842.3	6617.4	6392.6	6096.9	5692.9	5318.1	5289.0	4951.6
32.5°	7150.5	7100.5	7058.9	7054.7	6821.5	6596.6	6300.9	5880.3	5484.7	5447.2	5084.9
35°	7321.2	7275.4	7238.0	7246.3	7025.6	6804.8	6530.0	6130.2	5692.9	5651.3	5259.8
37.5°	7425.4	7408.7	7387.9	7417.0	7213.0	7004.7	6767.4	6371.7	5930.3	5892.8	5476.4
40°	7479.5	7467.0	7550.3	7587.8	7371.2	7183.8	7004.7	6621.6	6188.5	6146.9	5726.2
42.5°	7558.6	7662.7	7696.1	7687.7	7487.8	7321.2	7221.3	6892.3	6492.5	6455.0	6026.1
45°	7275.4	7250.5	7433.7	7533.6	7496.2	7408.7	7425.4	7217.1	6846.5	6809.0	6371.7
47.5°	6896.5	6863.2	6967.3	7213.0	7358.7	7442.0	7608.6	7554.5	7254.6	7221.3	6775.7
50°	6096.9	6142.7	6530.0	6859.0	7146.3	7433.7	7762.7	7916.8	7704.4	7671.1	7208.8
52.5°	5209.8	5255.6	5659.6	6417.5	6888.1	7371.2	7875.1	8279.1	8191.6	8154.2	7671.1
55°	4564.3	4664.3	5122.4	5672.1	6521.7	7175.5	7941.8	8649.7	8716.4	8683.1	8175.0
57.5°	3923.0	3998.0	4343.6	4830.9	6021.9	6834.0	7937.6	8995.4	9266.1	9232.8	8687.2
60°	3169.2	3265.0	3539.9	4064.6	5355.6	6425.9	7821.0	9266.1	9795.0	9770.0	9182.8
62.5°	2652.8	2682.0	2877.7	3331.6	4497.7	5909.5	7558.6	9411.8	10273.9	10257.2	9628.4
65°	2136.4	2140.6	2319.6	2698.6	3669.0	5268.1	7113.0	9357.7	10636.2	10644.5	9949.1
67.5°	1649.2	1670.0	1832.4	2119.7	2915.2	4435.2	6475.8	8991.2	10640.4	10661.2	9765.8
70°	1141.1	1157.7	1403.4	1682.5	2253.0	3535.7	5613.8	8020.9	9765.8	9782.5	8753.8
72.5°	803.8	812.1	1074.4	1345.1	1761.6	2665.3	4235.3	6634.1	8324.9	8337.4	7362.9
75°	599.7	608.0	757.9	1020.3	1349.3	1844.9	2894.4	5080.7	6650.8	6650.8	5813.7
77.5°	424.8	428.9	491.4	703.8	899.5	1245.2	1740.8	3327.5	4880.8	4889.2	4235.3
80°	287.4	291.5	320.7	474.8	562.2	674.7	945.3	1744.9	3077.6	3090.1	2690.3
82.5°	149.9	158.3	179.1	241.5	283.2	374.8	487.3	887.0	1703.3	1736.6	1615.8
85°	58.3	58.3	66.6	79.1	104.1	145.8	224.9	337.3	770.4	795.4	712.1
87.5°	20.8	20.8	25.0	25.0	29.2	33.3	37.5	50.0	87.5	87.5	83.3
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°	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0	4531.0
2.5°	4489.4	4489.4	4468.5	4476.9	4472.7	4464.4	4456.1	4468.5	4456.1	4426.9	4422.7
5°	4497.7	4489.4	4456.1	4451.9	4439.4	4422.7	4401.9	4410.2	4389.4	4364.4	4360.3
7.5°	4501.9	4485.2	4439.4	4422.7	4397.7	4364.4	4331.1	4331.1	4302.0	4277.0	4272.8
10°	4493.5	4472.7	4410.2	4376.9	4331.1	4281.1	4235.3	4222.8	4189.5	4160.4	4160.4
12.5°	4497.7	4468.5	4389.4	4335.3	4272.8	4210.3	4152.0	4135.4	4106.2	4077.1	4072.9
15°	4522.7	4481.0	4381.1	4310.3	4218.7	4147.9	4085.4	4072.9	4047.9	4027.1	4027.1
17.5°	4547.7	4493.5	4368.6	4268.6	4156.2	4077.1	4018.8	4018.8	4002.1	3989.6	3989.6
20°	4560.2	4497.7	4343.6	4210.3	4081.2	3998.0	3943.8	3952.1	3948.0	3943.8	3943.8
22.5°	4589.3	4506.0	4322.8	4156.2	4002.1	3914.7	3864.7	3877.2	3873.0	3873.0	3877.2
25°	4635.1	4526.8	4306.1	4106.2	3927.2	3831.4	3777.2	3785.6	3785.6	3785.6	3785.6
27.5°	4697.6	4568.5	4302.0	4060.4	3852.2	3743.9	3677.3	3677.3	3660.6	3664.8	3669.0
30°	4793.4	4647.6	4310.3	4018.8	3773.1	3635.6	3556.5	3544.0	3539.9	3548.2	3552.3
32.5°	4910.0	4755.9	4360.3	3989.6	3689.8	3514.9	3414.9	3410.8	3398.3	3398.3	3398.3
35°	5055.7	4860.0	4406.1	3985.5	3606.5	3385.8	3277.5	3265.0	3235.8	3223.3	3223.3
37.5°	5243.1	5022.4	4460.2	3956.3	3535.7	3260.8	3131.7	3090.1	3056.8	3052.6	3052.6
40°	5472.2	5205.7	4539.3	3923.0	3460.7	3131.7	2961.0	2890.2	2894.4	2911.0	2911.0
42.5°	5742.9	5430.6	4639.3	3906.3	3352.4	2998.5	2761.1	2677.8	2706.9	2723.6	2727.8
45°	6059.4	5697.1	4751.7	3885.5	3252.5	2848.5	2548.7	2444.6	2457.1	2461.2	2465.4
47.5°	6425.9	5992.8	4868.3	3868.9	3140.1	2661.1	2315.5	2178.1	2173.9	2148.9	2157.2
50°	6809.0	6305.1	4989.1	3839.7	3002.6	2440.4	2069.8	1907.4	1874.0	1836.6	1840.7
52.5°	7217.1	6625.8	5101.6	3793.9	2831.9	2215.5	1836.6	1661.6	1595.0	1553.4	1561.7
55°	7666.9	6954.8	5209.8	3723.1	2652.8	1990.6	1628.3	1449.3	1366.0	1332.7	1336.8
57.5°	8079.2	7271.3	5289.0	3635.6	2457.1	1786.6	1445.1	1270.2	1216.0	1211.9	1216.0
60°	8479.0	7537.8	5322.3	3514.9	2257.2	1599.2	1274.3	1141.1	1103.6	1124.4	1128.6
62.5°	8816.3	7708.6	5305.6	3352.4	2053.1	1420.1	1136.9	1041.1	1016.1	1057.8	1062.0
65°	9012.1	7762.7	5189.0	3119.2	1832.4	1245.2	1007.8	903.7	891.2	916.2	928.7
67.5°	8753.8	7425.4	4872.5	2798.6	1586.7	1082.8	882.9	799.6	778.8	799.6	799.6
70°	7758.5	6434.2	4122.9	2290.5	1316.0	924.5	766.3	708.0	691.3	708.0	703.8
72.5°	6463.4	5351.4	3248.3	1786.6	1037.0	778.8	666.3	612.2	595.5	578.9	570.5
75°	5014.1	4064.6	2357.1	1311.8	782.9	624.7	558.0	508.1	466.4	483.1	474.8
77.5°	3673.1	2852.7	1670.0	907.9	562.2	483.1	437.3	399.8	370.6	404.0	399.8
80°	2365.5	1844.9	1116.1	608.0	387.3	337.3	320.7	299.8	329.0	428.9	437.3
82.5°	1445.1	1170.2	666.3	395.6	254.0	224.9	208.2	208.2	337.3	370.6	374.8
85°	645.5	620.5	362.3	204.1	141.6	129.1	116.6	149.9	137.4	99.9	104.1
87.5°	104.1	108.3	79.1	70.8	54.1	54.1	41.6	29.2	20.8	12.5	12.5
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)