

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: P841166

Luminaire Tested: **ARCH4-140-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841166
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: ARCH4-140-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

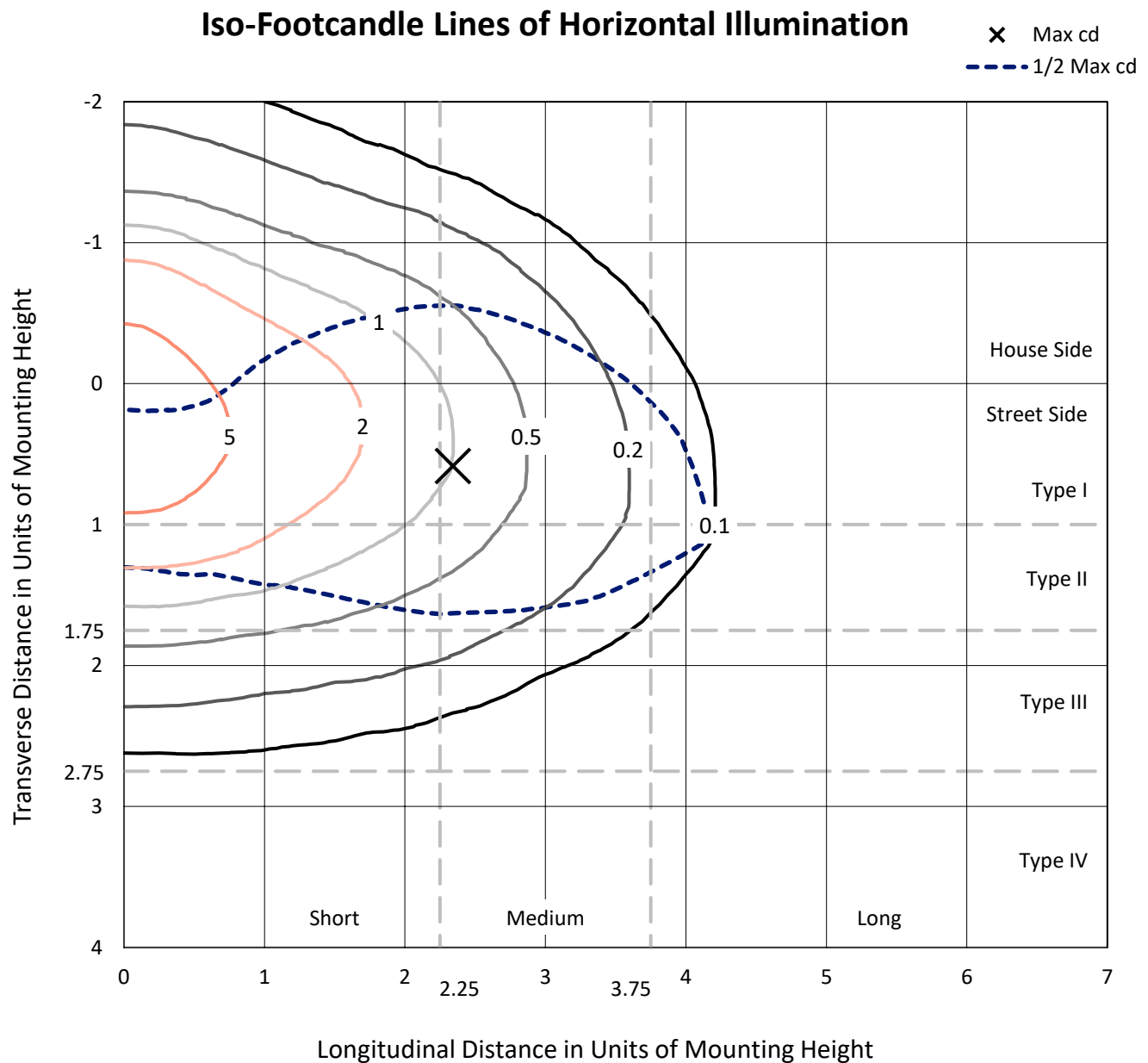
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23434 lumens
Efficiency: N/A
Efficacy: 165.8 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): 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



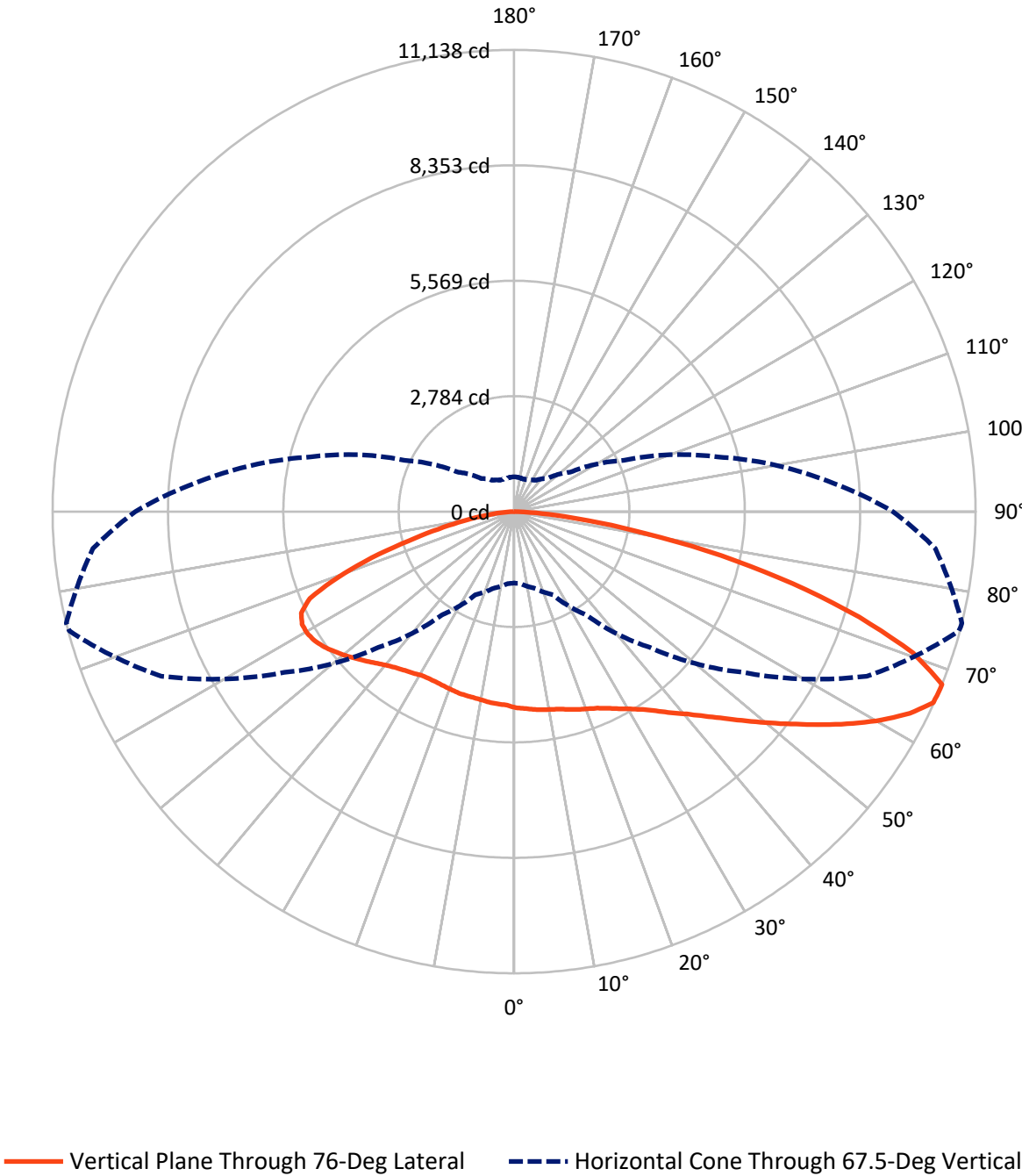
REPORT NUMBER: P841166
CATALOG NUMBER: ARCH4-140-730-U-T2U



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Medium - N/A

REPORT NUMBER: P841166
CATALOG NUMBER: ARCH4-140-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P841166

CATALOG NUMBER: ARCH4-140-730-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7918.5	0.0	7918.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15515.5	0.0	15515.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	23434.0	0.0	23434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	1.9
10°-20°	1395.5	6.0
20°-30°	2370.9	10.1
30°-40°	3373.5	14.4
40°-50°	4260.6	18.2
50°-60°	4612.9	19.7
60°-70°	4290.5	18.3
70°-80°	2304.4	9.8
80°-90°	369.3	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°	23434.0	100.0
0°-180°	23434.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841166

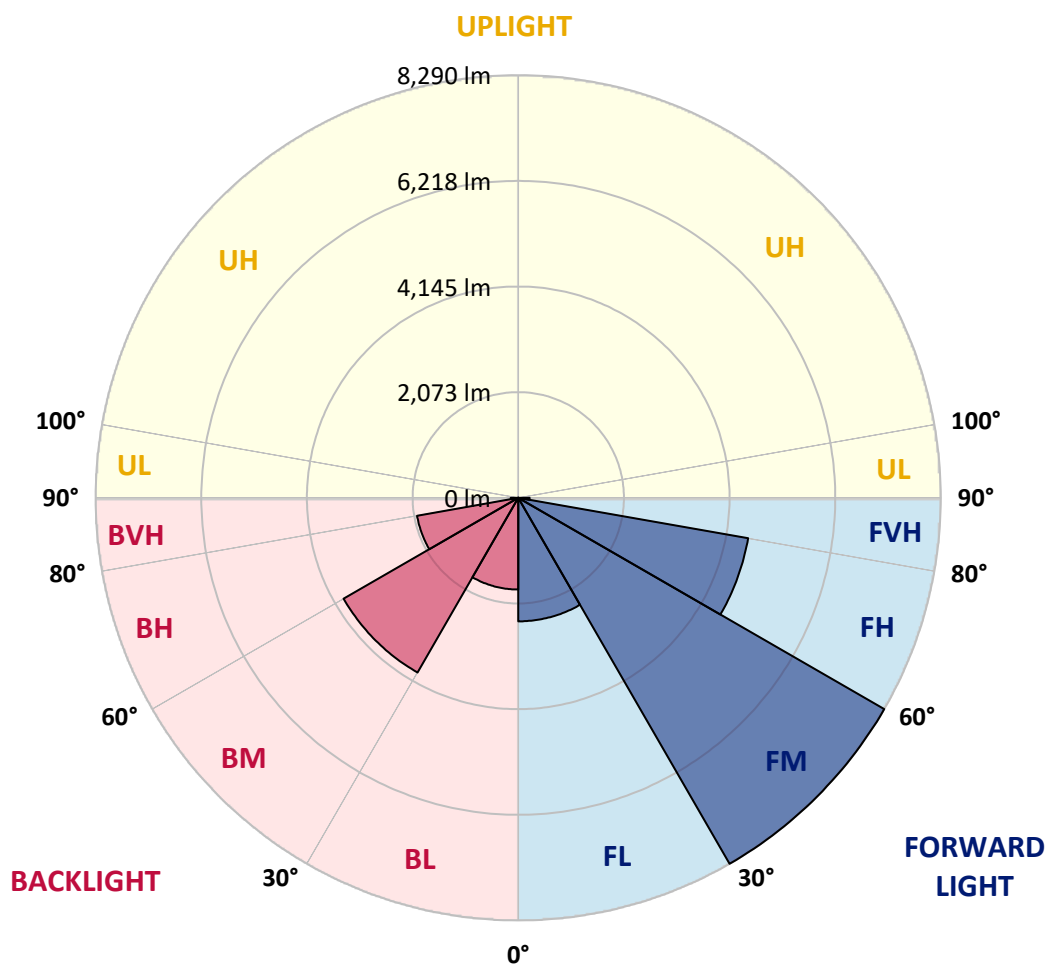
CATALOG NUMBER: ARCH4-140-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2423.3	10.3			
FM	(30°-60°)	8290.1	35.4			
FH	(60°-80°)	4578.8	19.5			G2/5000
FVH	(80°-90°)	223.4	1.0			G2/225
BL	(0°-30°)	1799.5	7.7	B3/2500		
BM	(30°-60°)	3957.0	16.9	B3/5000		
BH	(60°-80°)	2016.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	145.9	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



REPORT NUMBER: P841166

CATALOG NUMBER: ARCH4-140-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6
2.5°	4877.2	4868.5	4833.7	4838.0	4838.0	4833.7	4781.5	4759.7	4759.7	4755.4	4707.5
5°	5051.2	5038.2	4999.0	4990.3	4972.9	4951.2	4868.5	4820.6	4798.9	4794.5	4729.3
7.5°	5255.7	5238.3	5190.4	5164.3	5120.8	5064.3	4959.9	4885.9	4833.7	4829.3	4738.0
10°	5460.2	5442.8	5386.2	5338.4	5277.5	5186.1	5051.2	4942.5	4859.8	4851.1	4742.3
12.5°	5703.8	5686.4	5616.8	5555.9	5464.5	5342.7	5164.3	5016.4	4903.3	4890.2	4755.4
15°	5960.5	5934.4	5864.8	5795.2	5682.1	5525.5	5312.3	5116.5	4972.9	4951.2	4794.5
17.5°	6173.7	6138.9	6082.3	6012.7	5886.6	5703.8	5460.2	5216.5	5038.2	5020.8	4833.7
20°	6356.4	6330.3	6269.4	6204.2	6069.3	5869.2	5599.4	5316.6	5099.1	5077.3	4864.1
22.5°	6530.5	6495.7	6460.9	6413.0	6265.1	6043.2	5760.4	5438.4	5177.4	5151.3	4903.3
25°	6730.6	6691.5	6678.4	6652.3	6478.3	6252.0	5956.2	5590.7	5286.2	5255.7	4972.9
27.5°	6978.6	6935.1	6909.0	6909.0	6700.2	6465.2	6165.0	5769.1	5412.3	5386.2	5059.9
30°	7239.6	7187.4	7148.3	7148.3	6913.3	6678.4	6369.5	5947.5	5555.9	5525.5	5173.0
32.5°	7470.2	7418.0	7374.5	7370.2	7126.5	6891.6	6582.7	6143.3	5729.9	5690.8	5312.3
35°	7648.6	7600.8	7561.6	7570.3	7339.7	7109.1	6822.0	6404.3	5947.5	5904.0	5495.0
37.5°	7757.4	7740.0	7718.2	7748.7	7535.5	7318.0	7070.0	6656.6	6195.5	6156.3	5721.2
40°	7813.9	7800.9	7887.9	7927.1	7700.8	7505.0	7318.0	6917.7	6465.2	6421.7	5982.3
42.5°	7896.6	8005.4	8040.2	8031.5	7822.6	7648.6	7544.2	7200.5	6782.8	6743.7	6295.5
45°	7600.8	7574.7	7766.1	7870.5	7831.4	7740.0	7757.4	7539.9	7152.6	7113.5	6656.6
47.5°	7204.8	7170.0	7278.8	7535.5	7687.8	7774.8	7948.8	7892.3	7579.0	7544.2	7078.7
50°	6369.5	6417.4	6822.0	7165.7	7465.9	7766.1	8109.8	8270.8	8048.9	8014.1	7531.1
52.5°	5442.8	5490.6	5912.7	6704.5	7196.1	7700.8	8227.3	8649.3	8557.9	8518.8	8014.1
55°	4768.4	4872.8	5351.4	5925.7	6813.3	7496.3	8296.9	9036.5	9106.1	9071.3	8540.5
57.5°	4098.4	4176.7	4537.8	5046.9	6291.2	7139.6	8292.5	9397.6	9680.4	9645.6	9075.7
60°	3310.9	3411.0	3698.1	4246.3	5595.1	6713.2	8170.7	9680.4	10233.0	10206.9	9593.4
62.5°	2771.4	2801.9	3006.4	3480.6	4698.8	6173.7	7896.6	9832.7	10733.3	10715.9	10058.9
65°	2231.9	2236.3	2423.4	2819.3	3833.0	5503.7	7431.1	9776.1	11111.8	11120.5	10393.9
67.5°	1722.9	1744.7	1914.3	2214.5	3045.5	4633.5	6765.4	9393.3	11116.2	11137.9	10202.5
70°	1192.1	1209.5	1466.2	1757.7	2353.8	3693.8	5864.8	8379.5	10202.5	10219.9	9145.3
72.5°	839.7	848.4	1122.5	1405.3	1840.4	2784.5	4424.7	6930.7	8697.1	8710.2	7692.1
75°	626.5	635.2	791.8	1065.9	1409.6	1927.4	3023.8	5307.9	6948.1	6948.1	6073.6
77.5°	443.8	448.1	513.4	735.3	939.8	1300.9	1818.6	3476.2	5099.1	5107.8	4424.7
80°	300.2	304.6	335.0	496.0	587.4	704.8	987.6	1823.0	3215.2	3228.3	2810.6
82.5°	156.6	165.3	187.1	252.3	295.9	391.6	509.0	926.7	1779.5	1814.3	1688.1
85°	60.9	60.9	69.6	82.7	108.8	152.3	234.9	352.4	804.9	831.0	744.0
87.5°	21.8	21.8	26.1	26.1	30.5	34.8	39.2	52.2	91.4	91.4	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P841166

CATALOG NUMBER: ARCH4-140-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6	4733.6
2.5°	4690.1	4690.1	4668.4	4677.1	4672.7	4664.0	4655.3	4668.4	4655.3	4624.8	4620.5
5°	4698.8	4690.1	4655.3	4651.0	4637.9	4620.5	4598.7	4607.4	4585.7	4559.6	4555.2
7.5°	4703.2	4685.8	4637.9	4620.5	4594.4	4559.6	4524.8	4524.8	4494.3	4468.2	4463.9
10°	4694.5	4672.7	4607.4	4572.6	4524.8	4472.6	4424.7	4411.7	4376.9	4346.4	4346.4
12.5°	4698.8	4668.4	4585.7	4529.1	4463.9	4398.6	4337.7	4320.3	4289.8	4259.4	4255.0
15°	4724.9	4681.4	4577.0	4503.0	4407.3	4333.3	4268.1	4255.0	4228.9	4207.2	4207.2
17.5°	4751.0	4694.5	4563.9	4459.5	4342.0	4259.4	4198.5	4198.5	4181.1	4168.0	4168.0
20°	4764.1	4698.8	4537.8	4398.6	4263.7	4176.7	4120.2	4128.9	4124.5	4120.2	4120.2
22.5°	4794.5	4707.5	4516.1	4342.0	4181.1	4089.7	4037.5	4050.5	4046.2	4046.2	4050.5
25°	4842.4	4729.3	4498.7	4289.8	4102.8	4002.7	3946.1	3954.8	3954.8	3954.8	3954.8
27.5°	4907.6	4772.8	4494.3	4242.0	4024.4	3911.3	3841.7	3841.7	3824.3	3828.7	3833.0
30°	5007.7	4855.4	4503.0	4198.5	3941.8	3798.2	3715.5	3702.5	3698.1	3706.8	3711.2
32.5°	5129.5	4968.6	4555.2	4168.0	3854.8	3672.0	3567.6	3563.3	3550.2	3550.2	3550.2
35°	5281.8	5077.3	4603.1	4163.7	3767.7	3537.2	3424.0	3411.0	3380.5	3367.5	3367.5
37.5°	5477.6	5247.0	4659.7	4133.2	3693.8	3406.6	3271.8	3228.3	3193.5	3189.1	3189.1
40°	5716.9	5438.4	4742.3	4098.4	3615.5	3271.8	3093.4	3019.4	3023.8	3041.2	3041.2
42.5°	5999.7	5673.4	4846.7	4081.0	3502.4	3132.5	2884.5	2797.5	2828.0	2845.4	2849.7
45°	6330.3	5951.8	4964.2	4059.2	3397.9	2975.9	2662.7	2553.9	2566.9	2571.3	2575.6
47.5°	6713.2	6260.7	5086.0	4041.8	3280.5	2780.1	2419.0	2275.4	2271.1	2245.0	2253.7
50°	7113.5	6587.0	5212.2	4011.4	3136.9	2549.5	2162.3	1992.6	1957.8	1918.7	1923.0
52.5°	7539.9	6922.0	5329.7	3963.5	2958.5	2314.6	1918.7	1735.9	1666.3	1622.8	1631.5
55°	8009.7	7265.8	5442.8	3889.6	2771.4	2079.7	1701.1	1514.1	1427.0	1392.2	1396.6
57.5°	8440.5	7596.4	5525.5	3798.2	2566.9	1866.5	1509.7	1327.0	1270.4	1266.1	1270.4
60°	8858.1	7874.9	5560.3	3672.0	2358.1	1670.7	1331.3	1192.1	1152.9	1174.7	1179.1
62.5°	9210.5	8053.2	5542.9	3502.4	2144.9	1483.6	1187.8	1087.7	1061.6	1105.1	1109.4
65°	9415.0	8109.8	5421.0	3258.7	1914.3	1300.9	1052.9	944.1	931.1	957.2	970.2
67.5°	9145.3	7757.4	5090.4	2923.7	1657.6	1131.2	922.4	835.3	813.6	835.3	835.3
70°	8105.4	6721.9	4307.2	2392.9	1374.8	965.9	800.5	739.6	722.2	739.6	735.3
72.5°	6752.4	5590.7	3393.6	1866.5	1083.3	813.6	696.1	639.6	622.2	604.8	596.1
75°	5238.3	4246.3	2462.5	1370.5	817.9	652.6	583.0	530.8	487.3	504.7	496.0
77.5°	3837.4	2980.3	1744.7	948.5	587.4	504.7	456.8	417.7	387.2	422.0	417.7
80°	2471.2	1927.4	1166.0	635.2	404.6	352.4	335.0	313.3	343.7	448.1	456.8
82.5°	1509.7	1222.6	696.1	413.3	265.4	234.9	217.5	217.5	352.4	387.2	391.6
85°	674.4	648.3	378.5	213.2	147.9	134.9	121.8	156.6	143.6	104.4	108.8
87.5°	108.8	113.1	82.7	74.0	56.6	56.6	43.5	30.5	21.8	13.1	13.1
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)