

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: P400365

Luminaire Tested: **ARCH-L-PA3-270-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35186 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

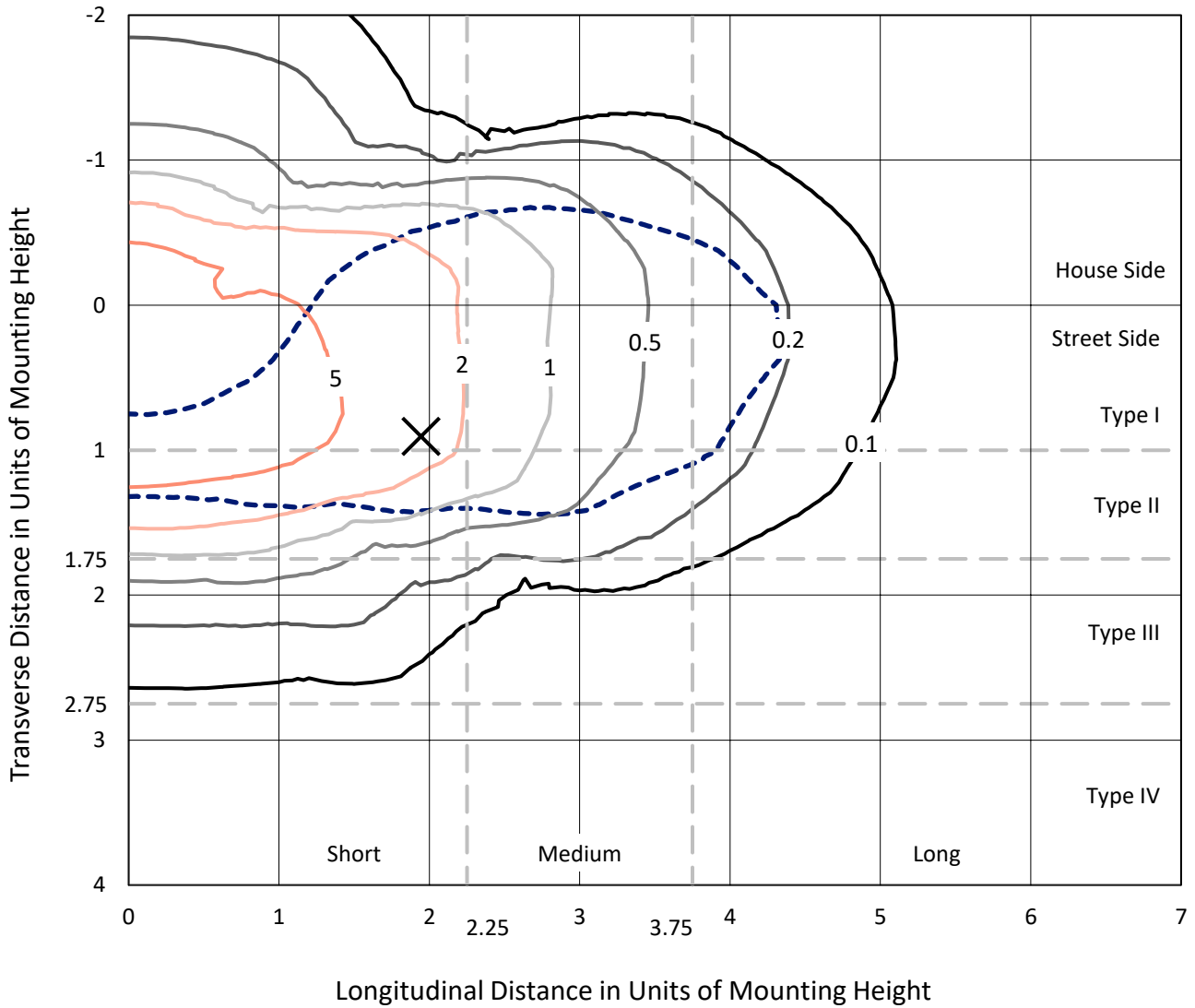
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400365
 CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

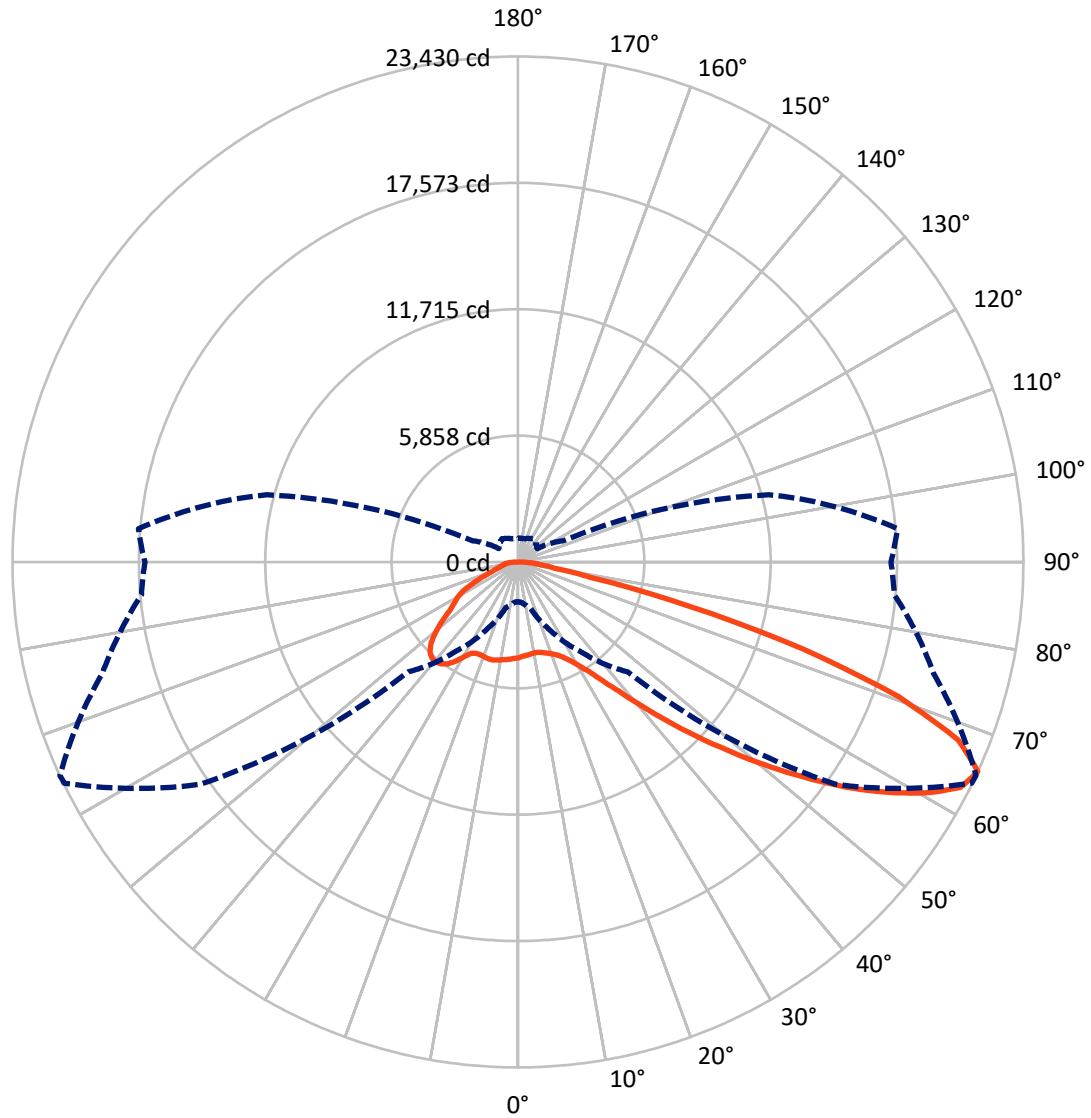
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P400365
CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P400365
 CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

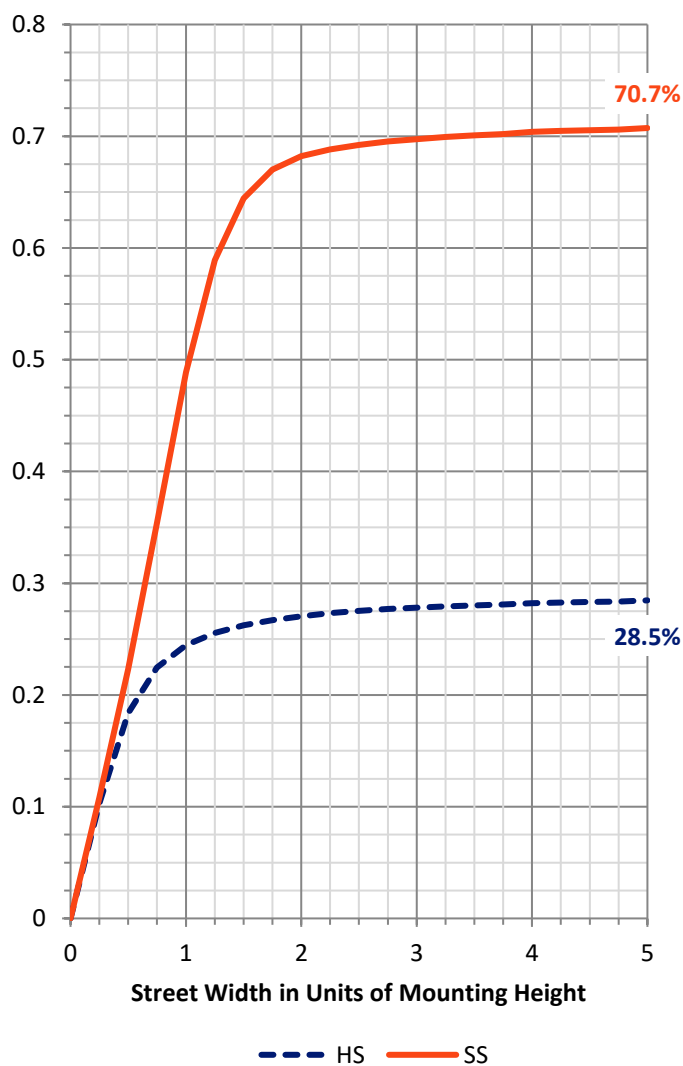
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10172.8	0.0	10172.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	25013.2	0.0	25013.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	35186.0	0.0	35186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.6	1.2
10°-20°	1264.6	3.6
20°-30°	2246.4	6.4
30°-40°	3800.3	10.8
40°-50°	6615.7	18.8
50°-60°	8549.5	24.3
60°-70°	7481.3	21.3
70°-80°	4069.3	11.6
80°-90°	735.2	2.1
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°	35186.0	100.0
0°-180°	35186.0	100.0

Coefficient of Utilization

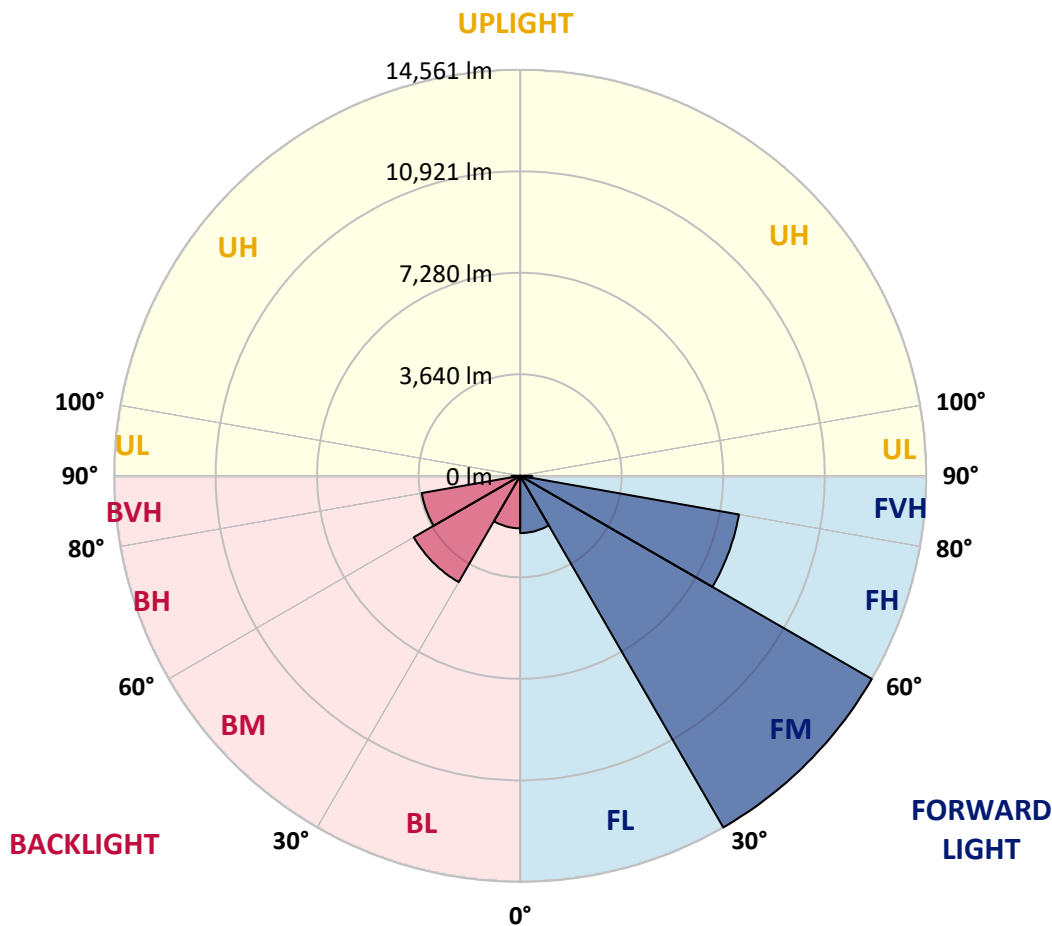


REPORT NUMBER: P400365
 CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.0	5.8			
FM (30°-60°)	14560.9	41.4			
FH (60°-80°)	7966.6	22.6			G4/12000
FVH (80°-90°)	432.7	1.2			G3/500
BL (0°-30°)	1881.6	5.3	B3/2500		
BM (30°-60°)	4404.6	12.5	B3/5000		
BH (60°-80°)	3584.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	302.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





REPORT NUMBER: P400365

CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1
2.5°	4367.4	4362.7	4353.5	4362.7	4367.4	4376.6	4372.0	4381.3	4376.6	4390.5	4413.7
5°	4256.2	4246.9	4242.3	4265.5	4279.4	4302.5	4311.8	4344.2	4339.6	4362.7	4399.8
7.5°	4131.2	4131.2	4126.5	4154.3	4172.8	4214.5	4246.9	4302.5	4307.1	4348.8	4390.5
10°	4033.9	4038.5	4033.9	4057.1	4084.8	4135.8	4191.4	4270.1	4274.7	4334.9	4376.6
12.5°	3996.8	3996.8	3996.8	4029.3	4066.3	4135.8	4200.6	4284.0	4293.3	4358.1	4395.1
15°	4047.8	4052.4	4043.2	4075.6	4117.3	4200.6	4260.8	4348.8	4358.1	4418.3	4441.5
17.5°	4228.4	4246.9	4223.8	4242.3	4233.0	4297.9	4353.5	4441.5	4446.1	4497.0	4506.3
20°	4585.0	4603.6	4566.5	4543.3	4460.0	4455.4	4478.5	4548.0	4548.0	4580.4	4557.2
22.5°	5136.2	5154.7	5089.8	5001.9	4802.7	4705.4	4654.5	4686.9	4682.3	4696.2	4636.0
25°	5867.9	5863.3	5784.5	5622.5	5302.9	5066.7	4941.6	4890.7	4890.7	4862.9	4788.8
27.5°	6775.7	6706.2	6567.2	6372.7	5928.1	5599.3	5330.7	5201.0	5177.8	5094.5	4955.5
30°	7743.6	7692.7	7493.5	7211.0	6696.9	6275.5	5830.9	5571.5	5557.6	5377.0	5168.6
32.5°	8882.9	8799.6	8577.2	8239.2	7623.2	7030.4	6474.6	6081.0	6057.8	5770.7	5483.5
35°	10346.4	10277.0	9846.2	9508.1	8716.2	7938.1	7280.5	6757.1	6738.6	6386.6	6020.7
37.5°	12101.7	11921.1	11504.3	10869.8	10036.1	9114.5	8280.8	7623.2	7600.0	7211.0	6747.9
40°	13667.1	13505.0	13134.5	12550.9	11657.1	10633.6	9503.5	8706.9	8683.8	8211.4	7627.8
42.5°	14824.9	14713.8	14472.9	14134.9	13495.7	12875.1	11064.3	10017.6	9975.9	9364.6	8637.5
45°	15496.5	15408.5	15269.5	15352.9	15343.6	15227.9	12926.1	11578.4	11444.1	10652.1	9762.9
47.5°	15334.4	15255.6	15311.2	15959.6	16853.5	17525.0	15093.5	13176.2	12995.6	11962.8	10962.4
50°	14162.6	14195.1	14486.8	15728.0	17733.4	19224.7	17497.2	14996.3	14755.5	13282.7	12101.7
52.5°	12027.6	12106.3	12814.9	14551.7	17636.2	20327.0	19669.3	16876.6	16557.1	14570.2	13139.1
55°	9554.5	9753.6	10670.6	12495.4	16367.2	20405.7	21308.8	18766.2	18414.2	15779.0	14042.2
57.5°	7067.4	7363.8	8424.4	10101.0	13935.7	19159.9	22128.6	20572.4	20146.3	16978.5	14996.3
60°	4483.1	4663.8	5886.4	7864.0	10666.0	16112.4	22022.0	22110.0	21739.5	18173.4	15992.0
62.5°	2862.2	2950.2	3566.1	5608.6	7456.5	11930.3	20859.6	23272.5	23022.4	19261.8	16936.8
65°	1838.6	1875.7	2190.6	3450.4	5076.0	7201.7	17965.0	23397.5	23430.0	19942.6	17520.4
67.5°	1495.9	1514.4	1630.2	2130.4	3589.3	3978.3	12513.9	21619.1	22012.8	19766.6	17321.2
70°	1361.6	1384.8	1505.2	1699.7	2778.8	2746.4	6057.8	18090.0	18733.8	18752.3	16436.6
72.5°	1148.6	1181.0	1343.1	1607.1	2148.9	2167.5	2565.8	12884.4	13833.8	16760.8	15107.4
75°	958.7	977.2	1116.2	1417.2	1820.1	1732.1	1801.6	6831.2	8202.1	13440.2	13694.9
77.5°	778.1	796.6	898.5	1130.0	1616.3	1347.7	1417.2	2829.8	3496.7	9123.7	11194.0
80°	555.8	574.3	690.1	880.0	1222.7	1213.4	1051.3	1560.8	1695.1	4932.4	7271.2
82.5°	398.3	412.2	523.3	629.9	847.5	1218.0	792.0	1060.6	1111.5	2186.0	2931.6
85°	268.6	268.6	361.2	416.8	546.5	768.8	639.1	717.9	750.3	1037.4	792.0
87.5°	115.8	115.8	194.5	213.0	287.1	356.6	477.0	361.2	370.5	560.4	324.2
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: P400365

CATALOG NUMBER: ARCH-L-PA3-270-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1	4446.1
2.5°	4427.6	4432.2	4441.5	4469.2	4487.8	4515.6	4529.5	4548.0	4548.0	4538.7	4543.3
5°	4418.3	4432.2	4464.6	4515.6	4548.0	4598.9	4636.0	4663.8	4673.0	4663.8	4668.4
7.5°	4413.7	4436.8	4492.4	4566.5	4612.8	4677.7	4728.6	4761.0	4784.2	4774.9	4779.5
10°	4399.8	4436.8	4506.3	4598.9	4668.4	4733.2	4779.5	4793.4	4807.3	4798.1	4793.4
12.5°	4418.3	4460.0	4534.1	4645.2	4724.0	4774.9	4788.8	4765.7	4733.2	4714.7	4710.1
15°	4455.4	4497.0	4571.1	4686.9	4756.4	4774.9	4742.5	4668.4	4594.3	4552.6	4548.0
17.5°	4506.3	4534.1	4594.3	4696.2	4751.8	4728.6	4663.8	4575.8	4520.2	4487.8	4492.4
20°	4538.7	4538.7	4585.0	4663.8	4710.1	4691.6	4612.8	4515.6	4427.6	4385.9	4372.0
22.5°	4585.0	4561.9	4566.5	4636.0	4700.8	4673.0	4506.3	4334.9	4209.9	4163.6	4158.9
25°	4710.1	4645.2	4603.6	4645.2	4798.1	4571.1	4237.7	4038.5	3922.7	3881.1	3885.7
27.5°	4862.9	4774.9	4686.9	4756.4	4876.8	4339.6	3895.0	3668.0	3598.6	3566.1	3580.0
30°	5015.7	4900.0	4784.2	5034.3	4821.2	3978.3	3455.0	3232.7	3172.5	3149.3	3167.8
32.5°	5298.3	5108.4	4969.4	5404.8	4649.9	3566.1	2978.0	2774.2	2718.6	2690.8	2681.5
35°	5770.7	5529.8	5390.9	5729.0	4409.0	3107.6	2542.6	2399.0	2338.8	2278.6	2269.4
37.5°	6451.5	6159.7	6034.6	5914.2	4071.0	2653.8	2209.2	2111.9	2023.9	1931.3	1926.6
40°	7266.6	6886.8	6794.2	5997.6	3603.2	2227.7	1977.6	1885.0	1773.8	1685.8	1690.4
42.5°	8206.7	7720.5	7521.3	5974.4	3024.3	2000.7	1810.9	1709.0	1611.7	1533.0	1528.3
45°	9211.7	8660.6	8202.1	5812.3	2450.0	1843.3	1709.0	1588.6	1491.3	1403.3	1394.0
47.5°	10323.3	9707.3	8832.0	5497.4	2023.9	1732.1	1648.8	1477.4	1389.4	1333.8	1333.8
50°	11444.1	10707.7	9410.9	5020.4	1773.8	1648.8	1560.8	1417.2	1347.7	1301.4	1301.4
52.5°	12402.7	11749.7	9887.9	4450.7	1616.3	1579.3	1500.6	1389.4	1315.3	1273.6	1269.0
55°	13333.6	12717.7	10314.0	3885.7	1486.7	1486.7	1486.7	1366.2	1282.9	1245.8	1241.2
57.5°	14259.9	13736.6	10758.6	3515.2	1370.9	1407.9	1458.9	1338.5	1255.1	1222.7	1218.0
60°	15306.6	14959.2	11272.7	3255.8	1269.0	1324.6	1421.8	1306.0	1208.8	1181.0	1176.4
62.5°	16418.1	16418.1	11740.5	2890.0	1176.4	1255.1	1366.2	1264.4	1167.1	1143.9	1139.3
65°	17288.8	17663.9	12041.5	2343.5	1083.7	1185.6	1301.4	1208.8	1111.5	1106.9	1097.6
67.5°	17390.7	17978.9	11851.6	1769.2	1000.4	1111.5	1236.6	1148.6	1055.9	1055.9	1042.1
70°	16658.9	17256.4	11258.8	1324.6	940.2	1037.4	1153.2	1074.5	986.5	995.7	972.6
72.5°	15436.3	15584.5	9786.0	1046.7	870.7	958.7	1051.3	991.1	912.4	912.4	880.0
75°	13824.6	13000.2	7109.1	875.3	787.3	866.1	949.4	898.5	829.0	805.9	787.3
77.5°	11004.1	9420.2	4131.2	754.9	717.9	778.1	833.6	796.6	736.4	685.4	685.4
80°	6706.2	5520.6	1824.7	653.0	634.5	680.8	717.9	676.2	625.2	574.3	560.4
82.5°	2551.9	2130.4	884.6	560.4	555.8	583.5	611.3	569.7	532.6	509.4	440.0
85°	699.3	643.8	606.7	467.8	458.5	453.9	486.3	467.8	416.8	342.7	305.7
87.5°	264.0	301.0	328.8	287.1	305.7	282.5	324.2	296.4	264.0	171.4	152.8
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)