

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: P1211417

Luminaire Tested: **ARCH4-270-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35950 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 269
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

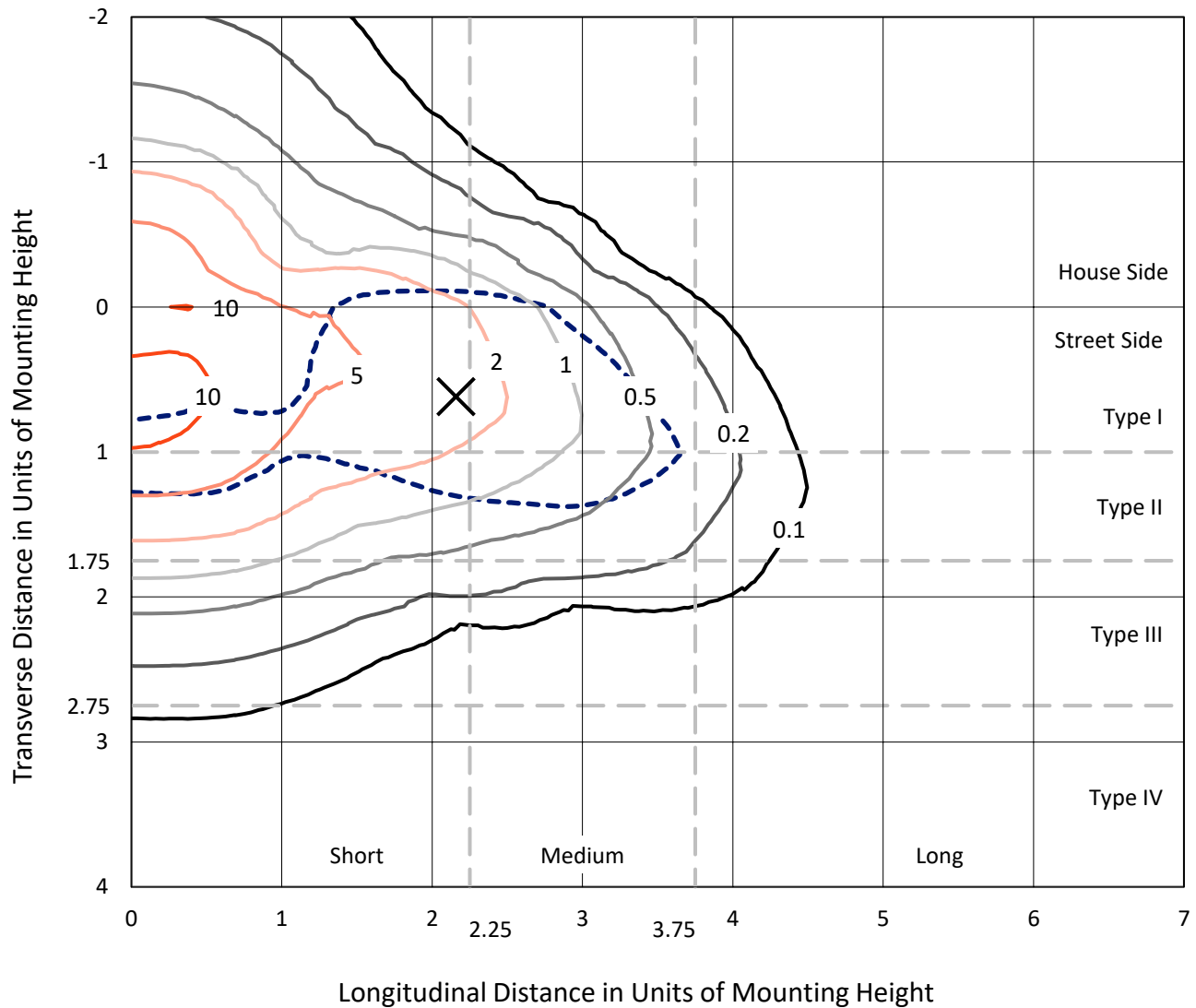


REPORT NUMBER: P1211417

CATALOG NUMBER: ARCH4-270-727-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

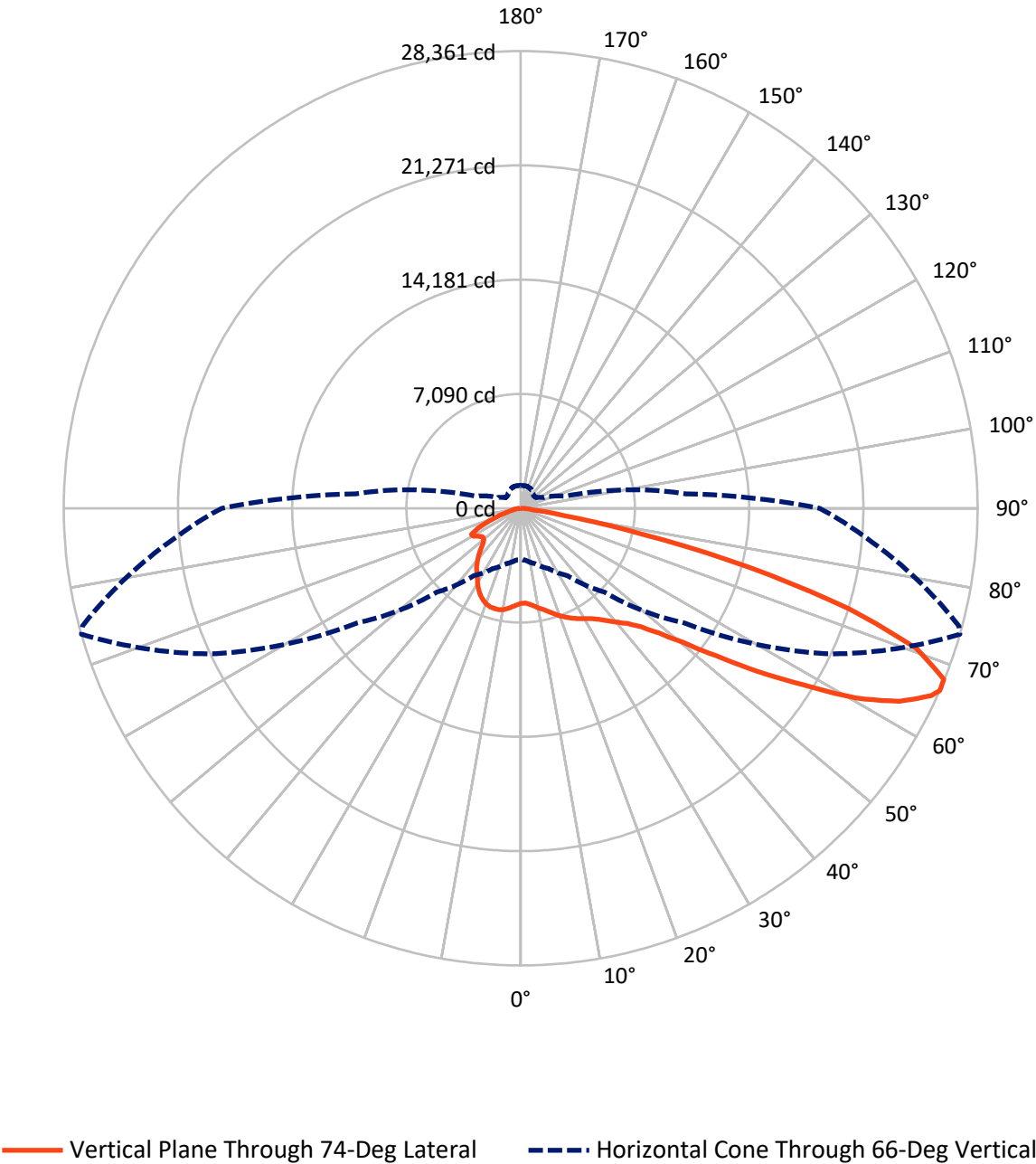
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type II - Short - N/A

REPORT NUMBER: P1211417
CATALOG NUMBER: ARCH4-270-727-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1211417

CATALOG NUMBER: ARCH4-270-727-U-T2RE

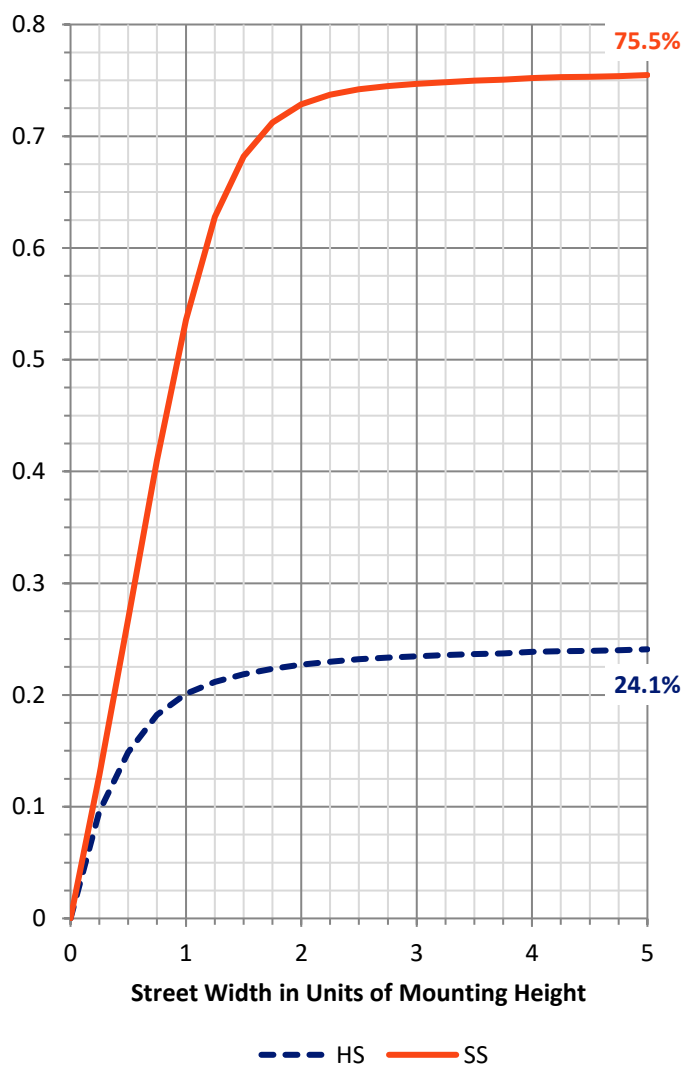
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8754.8	0.0	8754.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	27195.2	0.0	27195.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	35950.0	0.0	35950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.2	1.6
10°-20°	1728.8	4.8
20°-30°	3244.1	9.0
30°-40°	4990.3	13.9
40°-50°	6712.3	18.7
50°-60°	7938.1	22.1
60°-70°	7343.2	20.4
70°-80°	3089.2	8.6
80°-90°	341.9	1.0
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°	35950.0	100.0
0°-180°	35950.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211417

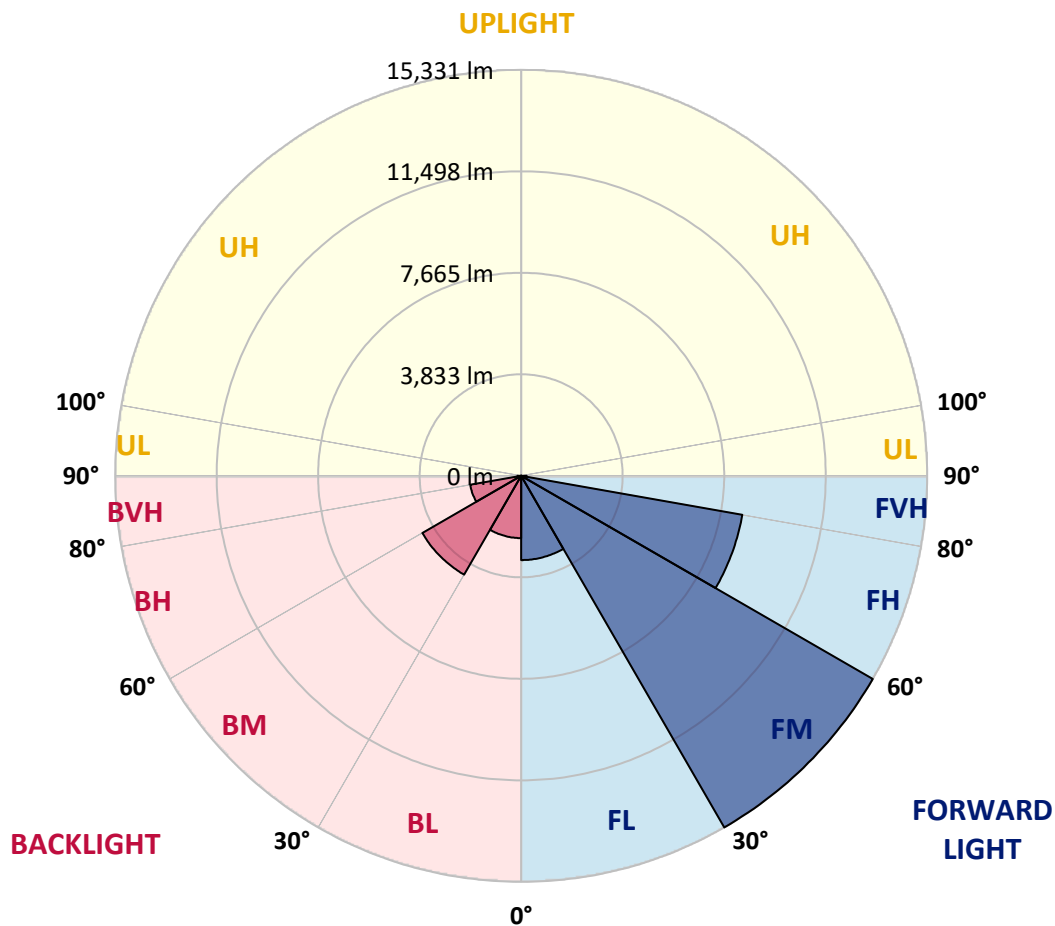
CATALOG NUMBER: ARCH4-270-727-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3182.0	8.9			
FM	(30°-60°)	15330.7	42.6			
FH	(60°-80°)	8478.0	23.6			G4/12000
FVH	(80°-90°)	204.5	0.6			G2/225
BL	(0°-30°)	2353.1	6.5	B3/2500		
BM	(30°-60°)	4310.0	12.0	B3/5000		
BH	(60°-80°)	1954.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	137.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



REPORT NUMBER: P1211417

CATALOG NUMBER: ARCH4-270-727-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4
2.5°	5874.9	5865.6	5884.1	5911.9	5925.8	5902.7	5893.4	5888.8	5888.8	5874.9	5898.0
5°	5597.3	5592.7	5634.3	5685.2	5782.4	5851.8	5944.3	5999.8	5981.3	5953.5	5972.0
7.5°	5236.5	5227.3	5278.2	5375.3	5509.5	5662.1	5888.8	6064.6	6133.9	6124.7	6120.1
10°	5375.3	5366.0	5361.4	5333.7	5379.9	5528.0	5763.9	6073.8	6309.7	6314.4	6319.0
12.5°	5856.4	5879.5	5856.4	5768.5	5666.7	5611.2	5750.0	6096.9	6457.8	6485.5	6601.2
15°	6513.3	6490.1	6443.9	6342.1	6184.8	6018.3	5916.5	6203.3	6670.6	6693.7	6948.1
17.5°	7091.5	7110.0	7082.3	6985.1	6800.1	6582.7	6272.7	6388.4	6897.2	6962.0	7318.2
20°	7720.6	7794.6	7757.6	7637.4	7484.7	7160.9	6772.3	6656.7	7147.0	7193.3	7702.1
22.5°	8446.9	8525.5	8456.2	8340.5	8215.6	7817.8	7318.2	6985.1	7355.2	7452.3	8072.2
25°	9316.6	9390.6	9325.8	9145.4	8988.1	8502.4	7905.7	7355.2	7558.7	7665.1	8372.9
27.5°	10005.8	10061.3	10121.5	10015.1	9774.5	9270.3	8516.3	7739.1	7762.3	7873.3	8650.4
30°	10621.1	10759.9	10810.7	10824.6	10621.1	10056.7	9140.8	8137.0	7938.0	8053.7	8928.0
32.5°	11463.0	11671.2	11587.9	11671.2	11550.9	10796.9	9788.4	8548.7	8164.7	8271.1	9191.7
35°	12693.5	12860.0	12642.6	12577.8	12383.5	11546.3	10412.9	8974.3	8465.4	8581.0	9441.5
37.5°	14016.5	14206.1	13891.6	13632.5	13262.5	12286.4	10949.5	9534.0	8881.7	8974.3	9672.8
40°	15173.0	15330.2	15057.3	14715.0	14095.1	12938.7	11412.1	9927.2	9298.1	9413.7	9941.1
42.5°	16241.5	16343.3	16038.0	15709.6	14881.5	13526.1	11911.7	10343.5	9783.8	9894.8	10158.5
45°	17324.0	17402.6	16977.1	16509.8	15538.4	14062.7	12462.2	10926.4	10496.2	10644.2	10510.1
47.5°	17518.3	17541.4	17467.4	17152.8	16056.5	14576.2	13142.2	11708.2	11583.3	11745.2	11116.0
50°	16172.2	16380.3	16838.3	17148.2	16264.7	15006.4	13822.2	12827.6	13082.1	13290.2	12374.3
52.5°	13558.5	13757.4	14816.8	15991.7	15765.1	15103.6	14553.1	14247.8	15196.1	15445.9	14085.9
55°	10801.5	10977.3	12096.7	13789.8	14150.6	14659.5	15334.9	16061.1	17893.0	18059.5	15964.0
57.5°	8895.6	8992.8	9793.0	11421.4	11999.6	13239.3	15755.8	18216.8	20636.2	20890.6	17596.9
60°	7295.0	7401.4	7998.2	9339.7	10107.6	11208.6	15422.8	20344.7	23911.3	23911.3	19692.5
62.5°	5490.9	5583.5	6138.6	7188.7	8479.3	9487.7	14358.8	21755.6	26381.5	26270.5	21209.8
65°	3770.1	3844.1	4246.6	4945.1	6106.2	8086.1	12906.3	21774.1	28019.1	27871.1	21857.4
66°	3164.1	3228.9	3571.2	4135.6	5111.6	7336.7	12392.8	21380.9	28361.4	28153.2	21584.5
67.5°	2498.0	2544.2	2770.9	3104.0	3747.0	5939.7	11583.3	20266.1	28329.0	28204.1	20890.6
70°	1785.6	1818.0	1984.5	2053.9	2215.8	3437.0	9200.9	17749.6	26057.7	26094.7	18161.3
72.5°	1383.1	1434.0	1535.8	1549.7	1512.7	1827.2	5583.5	14807.5	21316.2	21302.3	13479.9
75°	1114.8	1142.6	1193.5	1221.2	1212.0	1179.6	2363.8	11046.7	14673.4	14844.5	7549.5
77.5°	878.9	874.3	920.6	957.6	985.3	925.2	1082.5	6476.3	7692.9	7475.5	2835.7
80°	647.6	647.6	712.4	726.3	767.9	777.2	721.6	2498.0	2641.4	2400.8	735.5
82.5°	425.6	425.6	495.0	504.2	545.9	606.0	522.7	749.4	730.9	693.9	333.1
85°	231.3	222.0	245.2	277.6	300.7	356.2	314.6	374.7	383.9	379.3	222.0
87.5°	46.3	41.6	64.8	74.0	83.3	111.0	101.8	152.7	212.8	208.2	97.1
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: P1211417

CATALOG NUMBER: ARCH4-270-727-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4	5893.4
2.5°	5930.4	5925.8	5976.7	6036.8	6106.2	6147.8	6166.3	6198.7	6175.6	6184.8	6212.6
5°	6018.3	6032.2	6106.2	6184.8	6217.2	6194.1	6143.2	6124.7	6083.1	6073.8	6064.6
7.5°	6147.8	6171.0	6245.0	6263.5	6166.3	6004.4	5888.8	5824.0	5754.6	5736.1	5726.9
10°	6360.6	6374.5	6393.0	6203.3	5962.8	5745.4	5602.0	5541.8	5495.6	5458.6	5467.8
12.5°	6628.9	6619.7	6476.3	6083.1	5740.7	5518.7	5421.6	5384.6	5352.2	5329.0	5324.4
15°	6966.6	6901.8	6490.1	5916.5	5532.6	5347.5	5278.2	5264.3	5227.3	5227.3	5222.6
17.5°	7308.9	7142.4	6480.9	5740.7	5333.7	5231.9	5190.3	5181.0	5171.8	5167.1	5181.0
20°	7651.2	7355.2	6406.9	5523.3	5194.9	5134.8	5125.5	5130.1	5120.9	5134.8	5125.5
22.5°	7951.9	7494.0	6268.1	5292.0	5097.7	5093.1	5070.0	5079.2	5111.6	5116.2	5130.1
25°	8183.2	7544.8	6064.6	5079.2	5028.4	5019.1	5046.9	5083.9	5111.6	5116.2	5139.4
27.5°	8372.9	7517.1	5810.1	4912.7	4908.1	4959.0	5042.2	5056.1	5060.7	5060.7	5042.2
30°	8516.3	7457.0	5486.3	4727.7	4750.8	4875.7	4954.3	4954.3	4917.3	4908.1	4935.8
32.5°	8548.7	7378.3	5134.8	4538.0	4575.0	4723.0	4820.2	4787.8	4746.2	4746.2	4764.7
35°	8576.4	7271.9	4852.6	4279.0	4334.5	4510.3	4602.8	4538.0	4491.8	4477.9	4473.2
37.5°	8567.2	7230.3	4598.1	3950.5	4024.5	4195.7	4255.8	4195.7	4126.3	4093.9	4135.6
40°	8576.4	7202.5	4279.0	3589.7	3663.7	3765.5	3844.1	3797.9	3733.1	3649.8	3691.5
42.5°	8631.9	7239.5	3927.4	3238.1	3238.1	3293.6	3427.8	3395.4	3238.1	3205.8	3242.8
45°	8928.0	7438.5	3575.8	2886.6	2835.7	2872.7	3011.5	2872.7	2775.5	2775.5	2807.9
47.5°	9645.0	7808.5	3265.9	2576.6	2456.4	2530.4	2567.4	2437.9	2363.8	2345.3	2377.7
50°	11106.8	8548.7	3080.9	2322.2	2174.2	2229.7	2206.6	2201.9	2127.9	2137.2	2155.7
52.5°	13327.2	9992.0	3025.3	2197.3	2012.3	2026.1	2003.0	2012.3	1998.4	2044.6	2058.5
55°	15746.6	11513.9	3094.7	2215.8	1901.2	1804.1	1813.4	1859.6	1915.1	1989.1	2003.0
57.5°	17555.3	12277.1	3275.1	2340.7	1762.5	1614.4	1637.6	1725.5	1831.9	1892.0	1924.4
60°	18901.4	12184.6	3538.8	2373.1	1595.9	1443.3	1484.9	1614.4	1707.0	1757.8	1790.2
62.5°	19340.9	11606.4	3603.6	2137.2	1378.5	1281.4	1383.1	1517.3	1558.9	1614.4	1637.6
65°	18980.1	10787.6	3131.7	1734.7	1212.0	1161.1	1309.1	1410.9	1466.4	1494.2	1498.8
66°	18554.5	10297.3	2877.3	1577.4	1151.8	1124.1	1281.4	1364.6	1420.2	1415.5	1420.2
67.5°	17620.1	9270.3	2465.6	1355.4	1064.0	1068.6	1235.1	1290.6	1309.1	1295.3	1295.3
70°	14442.1	6527.1	1767.1	1027.0	934.4	999.2	1110.2	1124.1	1165.7	1147.2	1147.2
72.5°	8904.9	3205.8	1184.2	786.4	832.7	934.4	929.8	976.1	1073.2	1101.0	1119.5
75°	4376.1	1299.9	781.8	666.1	744.8	781.8	772.5	888.2	1027.0	1147.2	1188.9
77.5°	1660.7	647.6	545.9	582.9	601.4	587.5	615.2	804.9	1027.0	1244.4	1286.0
80°	513.5	448.7	430.2	481.1	453.3	430.2	462.6	666.1	869.7	943.7	943.7
82.5°	309.9	351.6	333.1	328.4	305.3	309.9	333.1	476.5	670.8	703.1	703.1
85°	217.4	231.3	189.7	180.4	175.8	171.2	171.2	277.6	397.8	393.2	407.1
87.5°	83.3	92.5	69.4	69.4	64.8	46.3	37.0	46.3	46.3	32.4	23.1
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)