

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: P397548

Luminaire Tested: **ARCH-S-PA1-100-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397548
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-S-PA1-100-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10755 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

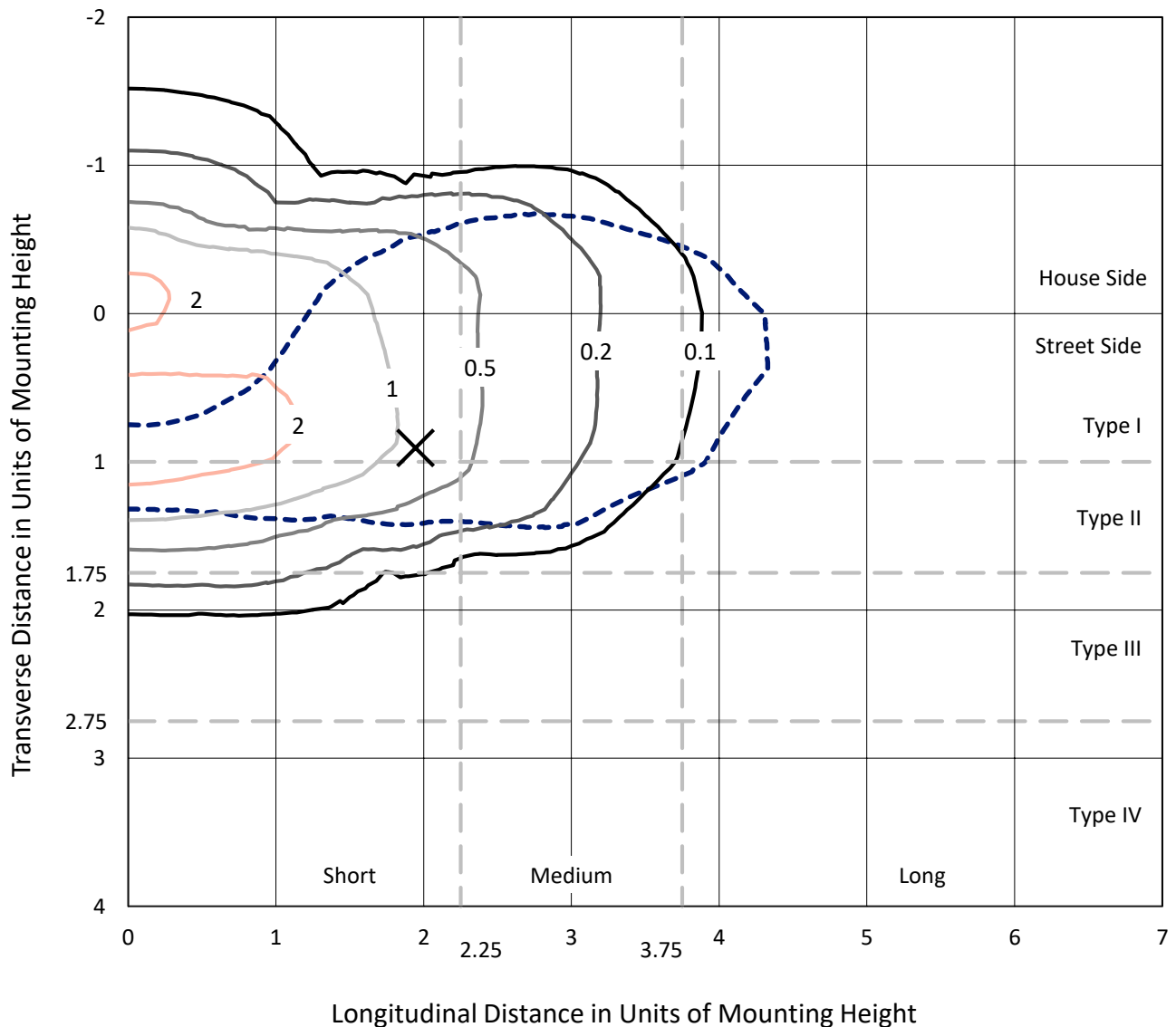
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

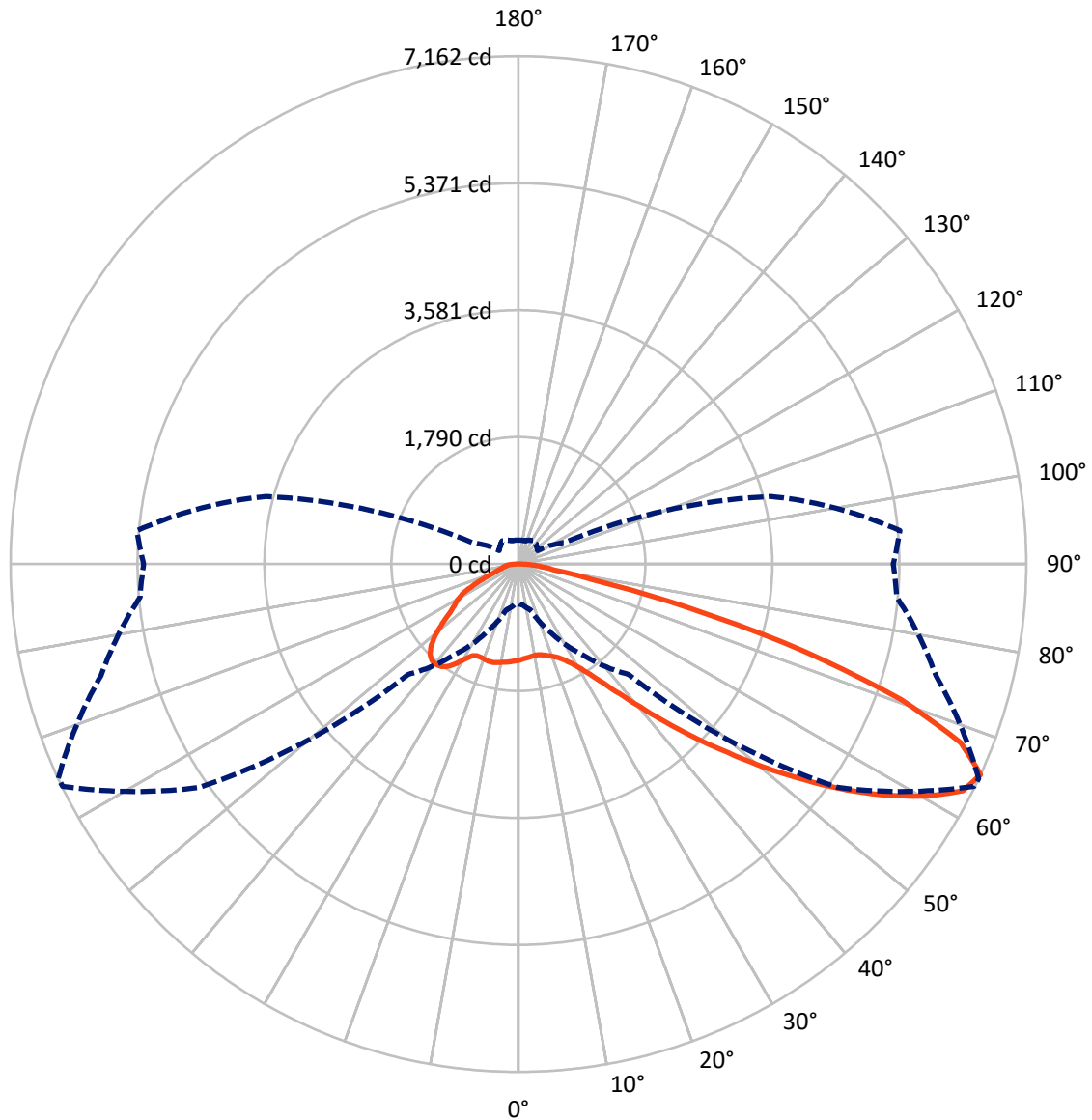
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3109.4	0.0	3109.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	7645.6	0.0	7645.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	10755.0	0.0	10755.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.2
10°-20°	386.6	3.6
20°-30°	686.6	6.4
30°-40°	1161.6	10.8
40°-50°	2022.2	18.8
50°-60°	2613.3	24.3
60°-70°	2286.7	21.3
70°-80°	1243.8	11.6
80°-90°	224.7	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°	10755.0	100.0
0°-180°	10755.0	100.0



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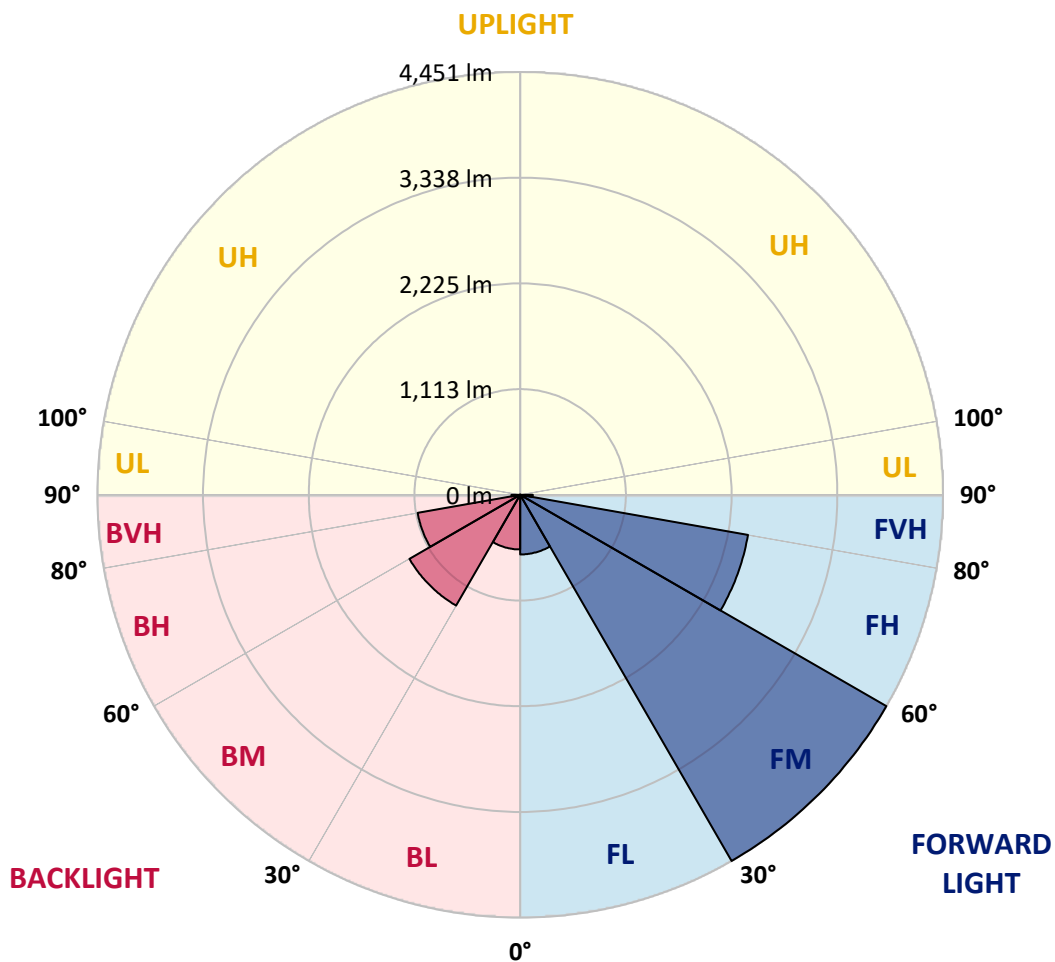
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.5	5.8			
FM	(30°-60°)	4450.7	41.4			
FH	(60°-80°)	2435.1	22.6			G2/5000
FVH	(80°-90°)	132.2	1.2			G2/225
BL	(0°-30°)	575.1	5.3	B2/1000		
BM	(30°-60°)	1346.3	12.5	B2/2500		
BH	(60°-80°)	1095.5	10.2	B3/2500		G3/2500
BVH	(80°-90°)	92.5	0.9			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0
2.5°	1334.9	1333.5	1330.7	1333.5	1334.9	1337.8	1336.3	1339.2	1337.8	1342.0	1349.1
5°	1301.0	1298.1	1296.7	1303.8	1308.0	1315.1	1317.9	1327.9	1326.4	1333.5	1344.8
7.5°	1262.7	1262.7	1261.3	1269.8	1275.5	1288.2	1298.1	1315.1	1316.5	1329.3	1342.0
10°	1233.0	1234.4	1233.0	1240.1	1248.6	1264.2	1281.1	1305.2	1306.6	1325.0	1337.8
12.5°	1221.7	1221.7	1221.7	1231.6	1242.9	1264.2	1284.0	1309.5	1312.3	1332.1	1343.4
15°	1237.3	1238.7	1235.8	1245.7	1258.5	1284.0	1302.4	1329.3	1332.1	1350.5	1357.6
17.5°	1292.5	1298.1	1291.0	1296.7	1293.9	1313.7	1330.7	1357.6	1359.0	1374.6	1377.4
20°	1401.5	1407.1	1395.8	1388.7	1363.2	1361.8	1368.9	1390.1	1390.1	1400.1	1393.0
22.5°	1569.9	1575.6	1555.8	1528.9	1468.0	1438.3	1422.7	1432.6	1431.2	1435.4	1417.0
25°	1793.6	1792.2	1768.1	1718.6	1620.9	1548.7	1510.5	1494.9	1494.9	1486.4	1463.8
27.5°	2071.1	2049.8	2007.4	1947.9	1812.0	1711.5	1629.4	1589.7	1582.7	1557.2	1514.7
30°	2366.9	2351.3	2290.5	2204.1	2047.0	1918.2	1782.3	1703.0	1698.7	1643.5	1579.8
32.5°	2715.2	2689.7	2621.7	2518.4	2330.1	2148.9	1979.0	1858.7	1851.6	1763.9	1676.1
35°	3162.5	3141.3	3009.6	2906.3	2664.2	2426.4	2225.4	2065.4	2059.7	1952.1	1840.3
37.5°	3699.0	3643.8	3516.4	3322.5	3067.7	2785.9	2531.1	2330.1	2323.0	2204.1	2062.6
40°	4177.5	4128.0	4014.7	3836.3	3563.1	3250.3	2904.9	2661.4	2654.3	2509.9	2331.5
42.5°	4531.4	4497.4	4423.8	4320.5	4125.1	3935.4	3381.9	3062.0	3049.3	2862.4	2640.1
45°	4736.7	4709.8	4667.3	4692.8	4690.0	4654.6	3951.0	3539.1	3498.0	3255.9	2984.1
47.5°	4687.1	4663.1	4680.0	4878.2	5151.5	5356.7	4613.5	4027.4	3972.2	3656.6	3350.8
50°	4329.0	4338.9	4428.1	4807.5	5420.4	5876.3	5348.2	4583.8	4510.2	4060.0	3699.0
52.5°	3676.4	3700.4	3917.0	4447.9	5390.7	6213.2	6012.1	5158.5	5060.9	4453.5	4016.1
55°	2920.4	2981.3	3261.6	3819.4	5002.8	6237.2	6513.3	5736.1	5628.5	4823.0	4292.2
57.5°	2160.2	2250.8	2575.0	3087.5	4259.6	5856.4	6763.8	6288.2	6158.0	5189.7	4583.8
60°	1370.3	1425.5	1799.3	2403.7	3260.2	4925.0	6731.3	6758.2	6644.9	5554.9	4888.1
62.5°	874.9	901.8	1090.0	1714.3	2279.2	3646.6	6376.0	7113.5	7037.1	5887.6	5176.9
65°	562.0	573.3	669.6	1054.6	1551.5	2201.3	5491.2	7151.7	7161.6	6095.7	5355.3
67.5°	457.2	462.9	498.3	651.2	1097.1	1216.0	3825.0	6608.1	6728.5	6041.9	5294.4
70°	416.2	423.3	460.1	519.5	849.4	839.5	1851.6	5529.4	5726.2	5731.9	5024.0
72.5°	351.1	361.0	410.5	491.2	656.8	662.5	784.3	3938.3	4228.5	5123.1	4617.8
75°	293.0	298.7	341.2	433.2	556.3	529.4	550.7	2088.0	2507.1	4108.1	4186.0
77.5°	237.8	243.5	274.6	345.4	494.1	411.9	433.2	864.9	1068.8	2788.8	3421.6
80°	169.9	175.5	210.9	269.0	373.7	370.9	321.3	477.1	518.1	1507.6	2222.5
82.5°	121.7	126.0	160.0	192.5	259.1	372.3	242.1	324.2	339.7	668.2	896.1
85°	82.1	82.1	110.4	127.4	167.0	235.0	195.4	219.4	229.3	317.1	242.1
87.5°	35.4	35.4	59.5	65.1	87.8	109.0	145.8	110.4	113.2	171.3	99.1
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°	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0	1359.0
2.5°	1353.3	1354.8	1357.6	1366.1	1371.7	1380.2	1384.5	1390.1	1390.1	1387.3	1388.7
5°	1350.5	1354.8	1364.7	1380.2	1390.1	1405.7	1417.0	1425.5	1428.4	1425.5	1426.9
7.5°	1349.1	1356.2	1373.2	1395.8	1410.0	1429.8	1445.4	1455.3	1462.3	1459.5	1460.9
10°	1344.8	1356.2	1377.4	1405.7	1426.9	1446.8	1460.9	1465.2	1469.4	1466.6	1465.2
12.5°	1350.5	1363.2	1385.9	1419.9	1443.9	1459.5	1463.8	1456.7	1446.8	1441.1	1439.7
15°	1361.8	1374.6	1397.2	1432.6	1453.8	1459.5	1449.6	1426.9	1404.3	1391.6	1390.1
17.5°	1377.4	1385.9	1404.3	1435.4	1452.4	1445.4	1425.5	1398.6	1381.6	1371.7	1373.2
20°	1387.3	1387.3	1401.5	1425.5	1439.7	1434.0	1410.0	1380.2	1353.3	1340.6	1336.3
22.5°	1401.5	1394.4	1395.8	1417.0	1436.9	1428.4	1377.4	1325.0	1286.8	1272.6	1271.2
25°	1439.7	1419.9	1407.1	1419.9	1466.6	1397.2	1295.3	1234.4	1199.0	1186.3	1187.7
27.5°	1486.4	1459.5	1432.6	1453.8	1490.7	1326.4	1190.5	1121.2	1099.9	1090.0	1094.3
30°	1533.1	1497.7	1462.3	1538.8	1473.7	1216.0	1056.1	988.1	969.7	962.6	968.3
32.5°	1619.5	1561.4	1519.0	1652.0	1421.3	1090.0	910.2	848.0	831.0	822.5	819.6
35°	1763.9	1690.3	1647.8	1751.1	1347.7	949.9	777.2	733.3	714.9	696.5	693.7
37.5°	1972.0	1882.8	1844.6	1807.8	1244.3	811.2	675.3	645.5	618.6	590.3	588.9
40°	2221.1	2105.0	2076.7	1833.2	1101.4	680.9	604.5	576.2	542.2	515.3	516.7
42.5°	2508.5	2359.8	2299.0	1826.2	924.4	611.5	553.5	522.4	492.6	468.6	467.2
45°	2815.7	2647.2	2507.1	1776.6	748.9	563.4	522.4	485.6	455.8	428.9	426.1
47.5°	3155.4	2967.1	2699.6	1680.3	618.6	529.4	504.0	451.6	424.7	407.7	407.7
50°	3498.0	3272.9	2876.5	1534.5	542.2	504.0	477.1	433.2	411.9	397.8	397.8
52.5°	3791.0	3591.4	3022.4	1360.4	494.1	482.7	458.7	424.7	402.0	389.3	387.9
55°	4075.6	3887.3	3152.6	1187.7	454.4	454.4	454.4	417.6	392.1	380.8	379.4
57.5°	4358.7	4198.7	3288.5	1074.5	419.0	430.3	445.9	409.1	383.6	373.7	372.3
60°	4678.6	4572.5	3445.6	995.2	387.9	404.9	434.6	399.2	369.5	361.0	359.6
62.5°	5018.4	5018.4	3588.6	883.3	359.6	383.6	417.6	386.5	356.7	349.7	348.2
65°	5284.5	5399.2	3680.6	716.3	331.3	362.4	397.8	369.5	339.7	338.3	335.5
67.5°	5315.7	5495.4	3622.6	540.8	305.8	339.7	378.0	351.1	322.8	322.8	318.5
70°	5092.0	5274.6	3441.4	404.9	287.4	317.1	352.5	328.4	301.5	304.4	297.3
72.5°	4718.3	4763.6	2991.2	319.9	266.1	293.0	321.3	302.9	278.9	278.9	269.0
75°	4225.6	3973.7	2173.0	267.6	240.7	264.7	290.2	274.6	253.4	246.3	240.7
77.5°	3363.5	2879.4	1262.7	230.7	219.4	237.8	254.8	243.5	225.1	209.5	209.5
80°	2049.8	1687.4	557.8	199.6	193.9	208.1	219.4	206.7	191.1	175.5	171.3
82.5°	780.0	651.2	270.4	171.3	169.9	178.4	186.9	174.1	162.8	155.7	134.5
85°	213.8	196.8	185.4	143.0	140.1	138.7	148.6	143.0	127.4	104.8	93.4
87.5°	80.7	92.0	100.5	87.8	93.4	86.4	99.1	90.6	80.7	52.4	46.7
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)