

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: P268320

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11526.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

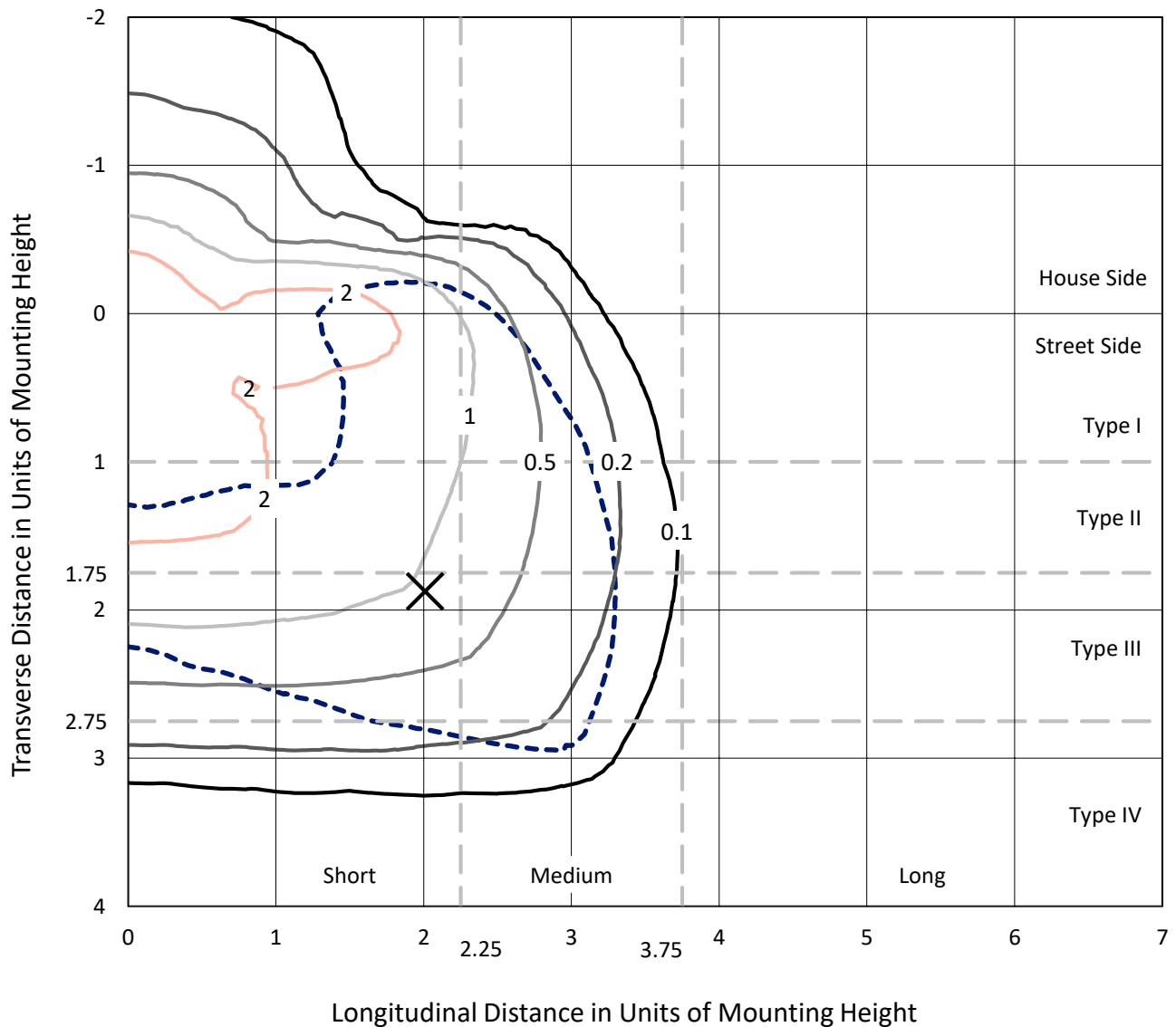
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

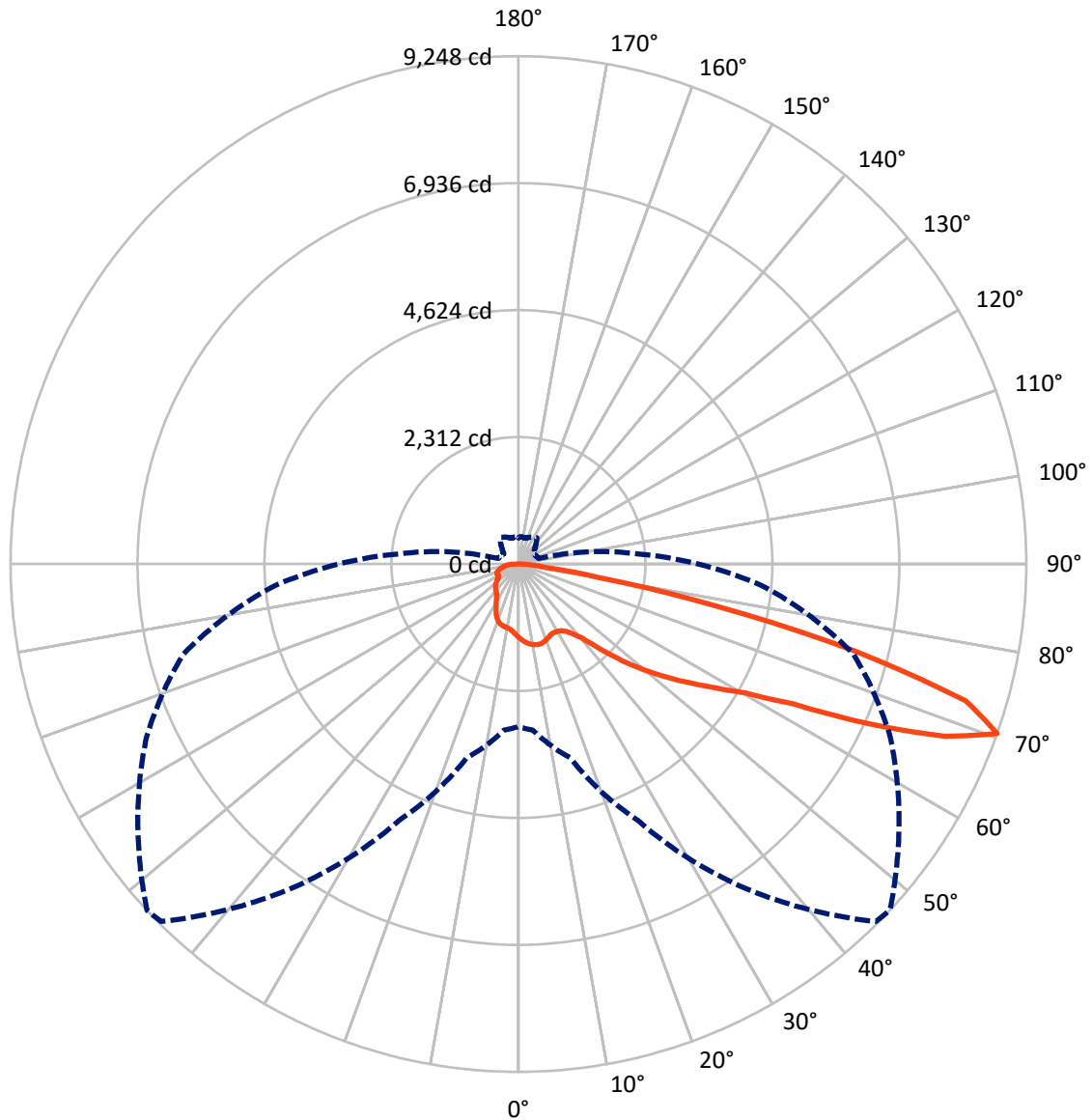
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2404.7	0.0	2404.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9121.8	0.0	9121.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	11526.5	0.0	11526.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.1
10°-20°	376.0	3.3
20°-30°	555.2	4.8
30°-40°	806.9	7.0
40°-50°	1452.2	12.6
50°-60°	2515.8	21.8
60°-70°	3590.8	31.2
70°-80°	1843.3	16.0
80°-90°	258.1	2.2
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°	11526.5	100.0
0°-180°	11526.5	100.0

Coefficient of Utilization



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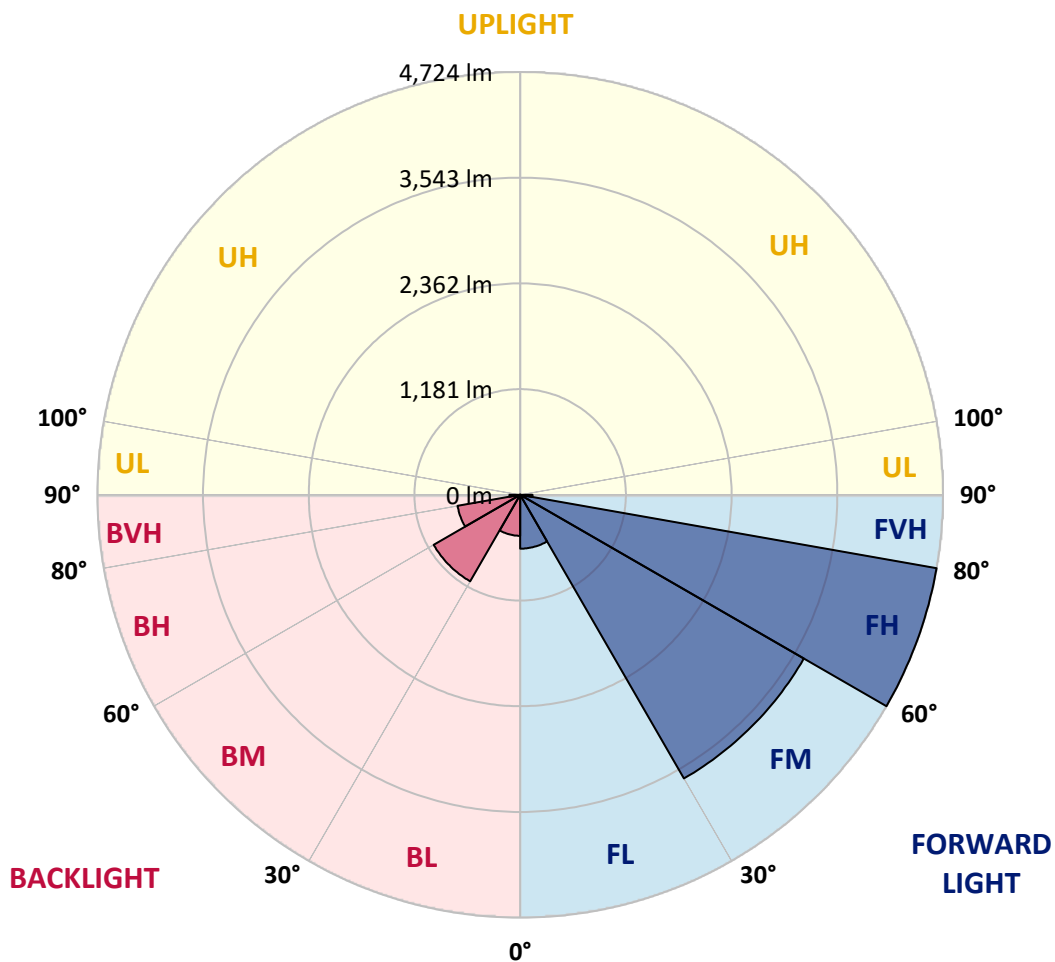
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.4	5.2			
FM	(30°-60°)	3658.8	31.7			
FH	(60°-80°)	4723.9	41.0			G2/5000
FVH	(80°-90°)	137.7	1.2			G2/225
BL	(0°-30°)	457.9	4.0	B1/500		
BM	(30°-60°)	1116.2	9.7	B2/2500		
BH	(60°-80°)	710.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	120.4	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1416.0	1413.2	1412.0	1409.8	1406.9	1392.9	1390.1	1380.1	1366.1	1351.5	1336.3
5°	1509.1	1508.4	1502.2	1491.0	1473.1	1442.3	1435.0	1410.2	1377.2	1345.3	1313.3
7.5°	1590.9	1585.9	1574.1	1551.6	1520.2	1478.3	1468.1	1433.9	1388.5	1344.8	1301.6
10°	1650.9	1648.1	1622.2	1591.4	1550.6	1504.0	1492.3	1454.0	1404.2	1348.6	1294.7
12.5°	1685.1	1679.6	1649.7	1612.7	1563.9	1518.6	1506.7	1468.1	1412.0	1348.6	1285.3
15°	1682.9	1678.9	1649.2	1608.9	1559.5	1519.8	1509.1	1470.3	1410.2	1343.1	1273.0
17.5°	1638.0	1639.6	1614.4	1574.6	1534.2	1504.0	1494.4	1458.6	1399.1	1331.8	1258.3
20°	1559.5	1567.4	1550.6	1515.3	1492.8	1472.1	1465.9	1435.6	1381.8	1315.6	1242.6
22.5°	1480.9	1488.3	1481.6	1451.8	1448.4	1436.1	1432.7	1410.9	1366.6	1305.4	1233.2
25°	1423.3	1429.9	1428.8	1403.1	1413.2	1412.6	1409.8	1399.1	1363.3	1305.4	1234.8
27.5°	1407.6	1409.8	1407.6	1384.0	1398.0	1409.3	1406.9	1405.3	1373.2	1321.8	1256.1
30°	1461.4	1457.9	1440.6	1392.9	1405.8	1421.6	1419.3	1420.4	1403.6	1364.3	1303.8
32.5°	1676.1	1661.0	1606.0	1472.1	1437.7	1446.2	1447.3	1465.9	1468.6	1429.9	1377.8
35°	1997.4	1980.7	1909.3	1684.1	1537.1	1508.0	1508.0	1535.9	1552.8	1524.2	1492.8
37.5°	2337.8	2319.3	2281.2	1977.9	1745.6	1615.1	1612.2	1631.9	1655.9	1662.8	1670.6
40°	2724.7	2705.2	2715.8	2307.6	2036.6	1800.7	1760.8	1746.8	1811.8	1855.0	1917.8
42.5°	3148.2	3139.1	3143.1	2674.9	2368.1	2078.1	2021.5	1949.2	2027.7	2104.5	2236.3
45°	3540.1	3547.9	3544.1	3068.0	2737.1	2416.9	2357.0	2216.7	2293.6	2425.3	2640.1
47.5°	3883.4	3850.9	3901.2	3497.6	3150.4	2796.1	2722.0	2534.1	2612.0	2774.7	3138.0
50°	4299.9	4295.4	4221.4	4070.6	3650.1	3176.8	3079.7	2862.2	2983.4	3209.3	3765.5
52.5°	4737.9	4656.6	4588.8	4516.5	4180.0	3567.1	3448.1	3189.2	3419.6	3703.9	4530.4
55°	4827.8	4791.2	4875.3	4997.0	4690.8	3972.5	3834.0	3599.0	3910.9	4269.1	5412.6
57.5°	5019.5	5018.9	5192.7	5409.8	5216.8	4402.7	4262.9	4094.1	4463.1	4916.9	6349.0
60°	5148.9	5185.5	5508.4	5929.6	5733.3	4899.4	4771.0	4665.5	5091.2	5640.7	7221.6
62.5°	5216.8	5266.1	5706.9	6140.5	6463.5	5726.5	5598.1	5446.2	5922.3	6434.7	7731.9
65°	4934.7	5031.8	5676.1	6322.7	7102.7	7067.3	7009.7	6742.7	6961.3	7062.4	7547.4
67.5°	4154.2	4253.5	5003.7	6152.9	7559.1	8360.5	8372.8	7916.9	7600.6	7116.2	6345.6
70°	2959.7	3037.7	3658.4	5158.4	7211.6	9205.7	9247.6	8458.1	7473.4	6311.0	4433.4
72.5°	1405.3	1453.0	2040.6	3357.3	5722.7	8434.5	8515.8	7767.3	6354.6	4672.4	2418.5
75°	516.4	531.1	689.8	1428.2	3319.1	6220.0	6316.0	5567.9	4212.5	2326.2	921.3
77.5°	309.6	319.1	386.9	602.9	1305.4	3555.3	3697.2	3028.1	1840.9	865.8	453.1
80°	216.4	223.1	277.5	375.1	616.9	1354.9	1480.9	1236.0	733.5	547.8	329.8
82.5°	146.3	149.7	195.1	253.5	409.9	483.9	522.0	549.6	494.5	407.7	209.1
85°	95.8	99.3	132.3	167.2	260.8	250.1	255.7	323.6	361.1	276.9	116.2
87.5°	54.9	57.2	79.6	89.1	127.9	106.0	107.1	170.5	231.0	186.8	70.6
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°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1332.4	1325.1	1308.8	1298.7	1289.2	1286.9	1283.0	1282.5	1281.9	1281.9	1280.3
5°	1302.6	1290.3	1265.2	1251.1	1239.3	1238.1	1237.7	1240.4	1241.5	1242.6	1241.0
7.5°	1283.6	1266.8	1235.3	1215.1	1201.2	1197.8	1203.4	1216.3	1224.7	1228.2	1226.4
10°	1271.8	1251.1	1214.6	1192.8	1181.0	1179.3	1186.7	1201.8	1219.1	1225.8	1225.3
12.5°	1258.3	1234.8	1196.2	1173.1	1166.4	1169.8	1179.3	1193.3	1211.3	1222.0	1222.5
15°	1245.0	1217.5	1177.6	1157.5	1154.6	1159.2	1168.1	1178.8	1192.8	1203.4	1204.5
17.5°	1228.6	1200.0	1160.3	1139.5	1137.3	1139.5	1140.0	1145.7	1154.6	1164.7	1167.5
20°	1211.3	1182.1	1140.6	1119.8	1109.8	1100.9	1090.7	1091.8	1094.7	1104.7	1106.9
22.5°	1198.9	1169.8	1125.4	1096.9	1069.9	1043.0	1022.8	1020.0	1021.2	1029.5	1032.4
25°	1200.0	1169.2	1121.5	1072.1	1013.3	970.1	943.2	938.6	938.2	944.4	948.3
27.5°	1222.0	1191.1	1136.1	1047.0	951.7	887.6	859.0	855.7	851.2	852.9	857.4
30°	1270.7	1242.0	1171.5	1021.2	884.9	806.9	777.3	773.9	767.7	764.8	768.2
32.5°	1350.3	1326.7	1223.0	996.5	818.1	738.0	707.7	700.4	696.5	693.1	695.8
35°	1482.7	1472.6	1292.0	969.6	759.2	684.7	657.2	646.1	640.4	646.6	651.0
37.5°	1690.2	1695.8	1382.3	927.5	713.9	649.4	626.4	613.5	605.1	610.0	615.2
40°	1983.9	1987.9	1482.2	868.0	674.5	628.6	603.9	592.2	580.3	571.4	570.9
42.5°	2369.8	2330.1	1580.3	803.5	629.3	615.7	588.2	573.7	555.7	531.1	526.0
45°	2827.3	2687.8	1654.9	729.6	578.1	600.0	570.9	550.8	522.6	495.8	492.9
47.5°	3354.5	3071.9	1691.2	652.8	530.4	577.0	549.6	517.7	482.3	468.7	467.1
50°	3998.3	3527.9	1708.7	578.1	488.9	546.8	518.7	481.1	451.4	448.7	446.9
52.5°	4731.3	4076.1	1714.2	517.1	454.8	507.5	493.4	457.1	433.5	435.7	435.7
55°	5498.3	4642.6	1638.0	472.7	423.5	467.1	476.6	447.4	427.9	436.8	440.2
57.5°	6202.6	5144.6	1398.0	438.6	393.6	436.2	470.5	456.5	443.0	479.4	481.8
60°	6743.2	5441.2	1044.2	407.7	371.8	425.6	486.7	490.7	494.1	580.9	592.7
62.5°	6856.6	5342.5	717.7	383.5	361.7	434.6	516.4	517.1	513.1	573.7	580.9
65°	6336.7	4718.3	522.0	370.1	353.4	450.9	541.7	529.9	504.0	550.1	536.6
67.5°	5032.3	3554.8	434.6	360.0	340.9	449.7	568.5	541.7	499.1	539.0	517.1
70°	3266.4	2149.5	386.9	351.5	326.4	428.4	584.3	540.6	484.5	501.3	475.6
72.5°	1593.8	961.1	355.0	339.3	311.3	398.7	583.8	530.4	469.4	468.2	454.3
75°	623.6	440.2	325.8	320.8	285.4	365.0	568.1	515.8	451.4	433.5	428.4
77.5°	365.0	314.0	288.7	293.2	254.6	331.5	545.1	490.7	426.8	405.5	399.8
80°	265.8	234.9	246.1	253.5	217.6	297.8	514.2	459.8	399.2	409.9	402.1
82.5°	170.5	151.5	199.7	206.9	181.1	263.6	480.6	427.4	360.6	327.5	319.6
85°	87.0	95.8	148.6	157.6	139.6	216.4	439.6	384.1	316.8	272.5	276.9
87.5°	48.8	65.5	94.9	106.0	98.8	166.5	356.6	316.8	258.5	210.4	185.1
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)