

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: McGRAW-EDISON

Report Number: P302895

Luminaire Tested: **GLNA-AF-03-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T4W-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11459.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

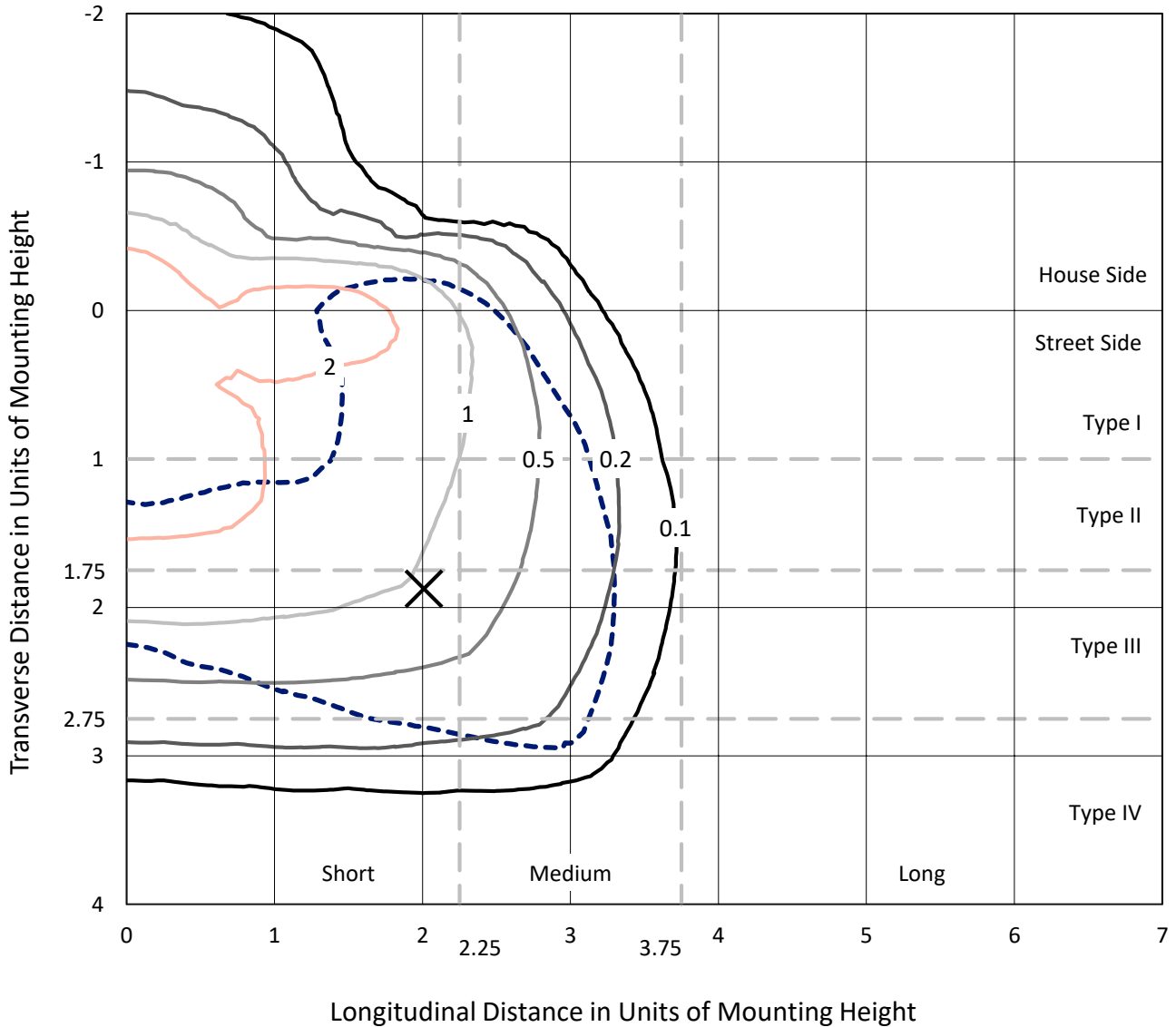
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

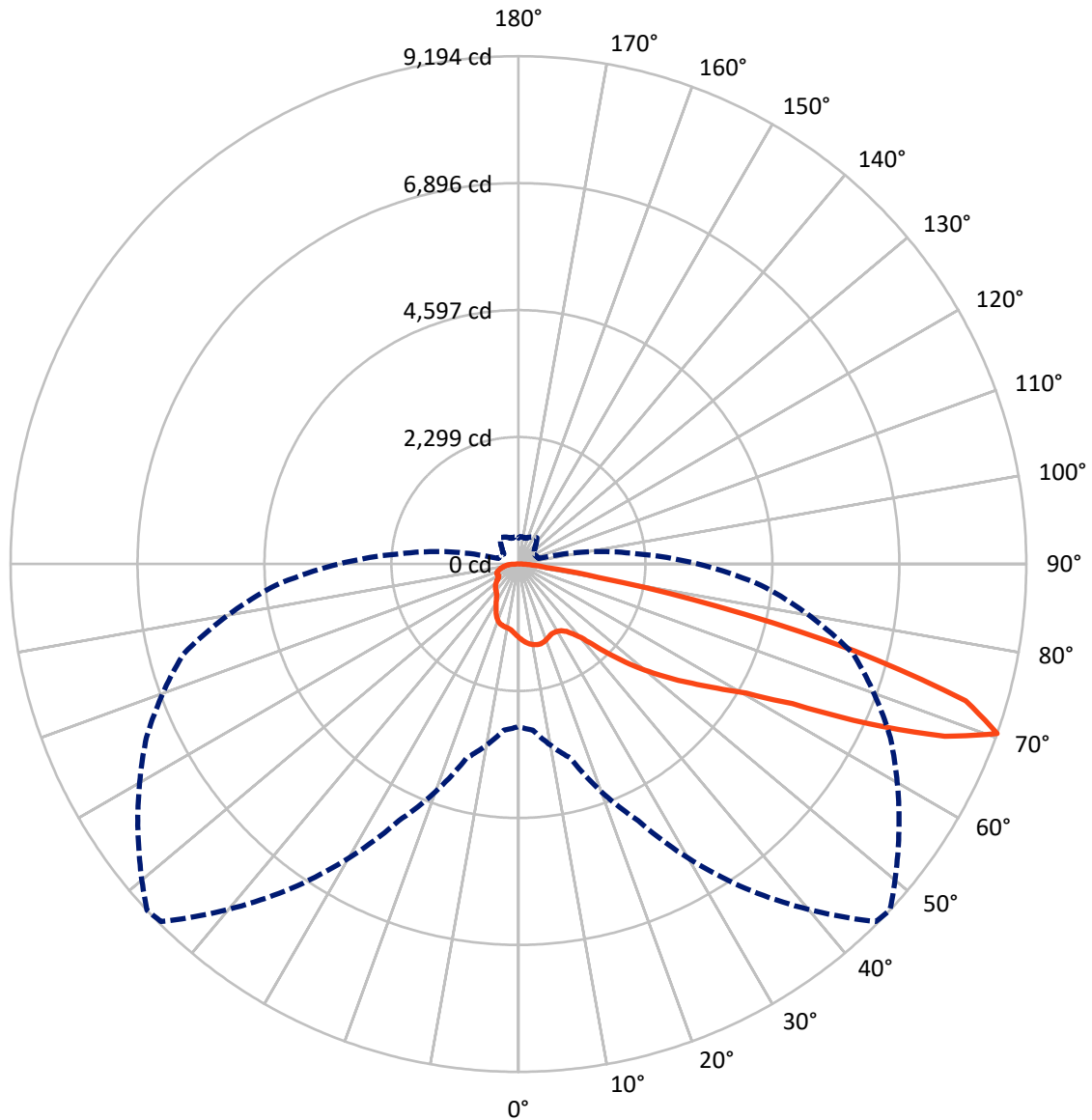
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	2390.7	0.0	2390.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9068.9	0.0	9068.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	11459.6	0.0	11459.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.1
10°-20°	373.8	3.3
20°-30°	552.0	4.8
30°-40°	802.3	7.0
40°-50°	1443.8	12.6
50°-60°	2501.2	21.8
60°-70°	3570.0	31.2
70°-80°	1832.6	16.0
80°-90°	256.6	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°	11459.6	100.0
0°-180°	11459.6	100.0



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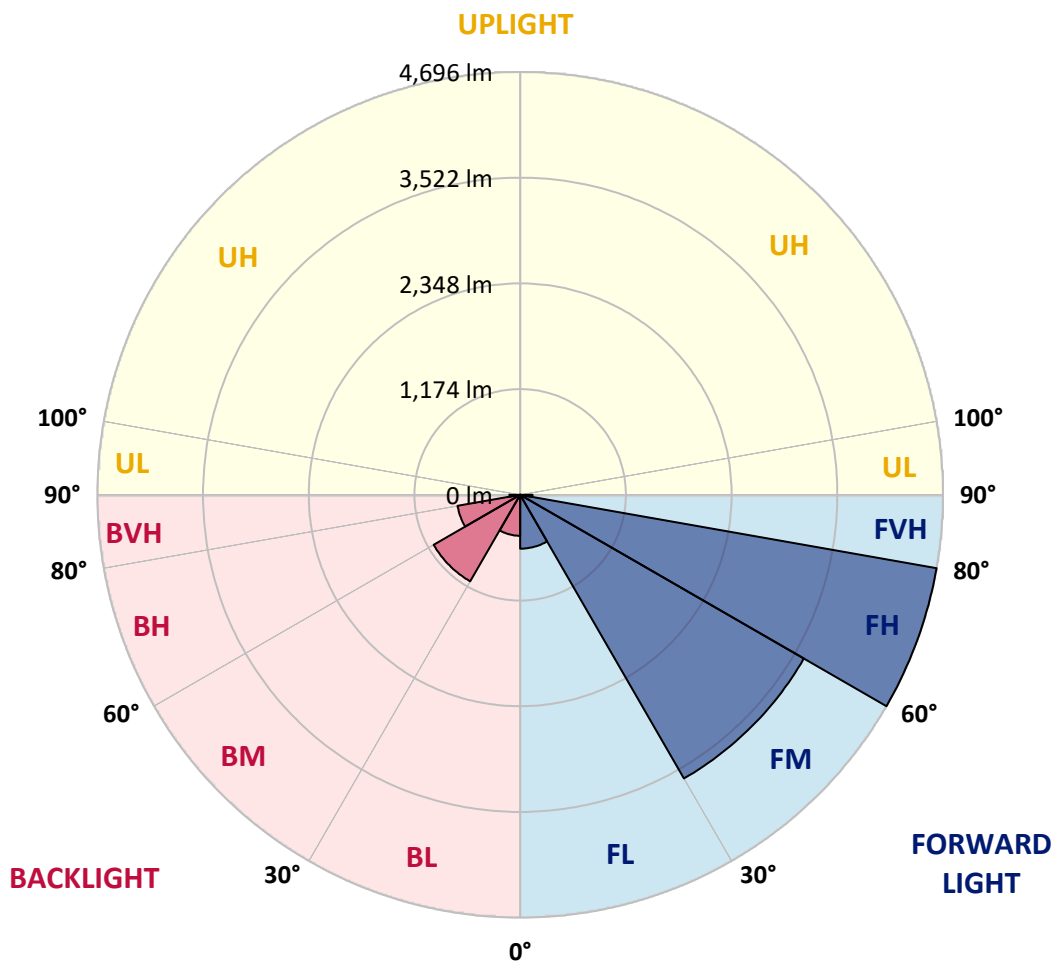
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	597.9	5.2			
FM	(30°-60°)	3637.6	31.7			
FH	(60°-80°)	4696.4	41.0			G2/5000
FVH	(80°-90°)	136.9	1.2			G2/225
BL	(0°-30°)	455.2	4.0	B1/500		
BM	(30°-60°)	1109.7	9.7	B2/2500		
BH	(60°-80°)	706.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	119.7	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°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1407.8	1405.0	1403.9	1401.7	1398.9	1384.8	1382.0	1372.0	1358.2	1343.5	1328.5
5°	1500.4	1499.8	1493.5	1482.4	1464.6	1433.9	1426.7	1402.2	1369.3	1337.4	1305.8
7.5°	1581.6	1576.6	1565.0	1542.6	1511.5	1469.6	1459.6	1425.6	1380.4	1336.9	1293.9
10°	1641.3	1638.5	1612.9	1582.2	1541.5	1495.2	1483.5	1445.5	1395.9	1340.7	1287.2
12.5°	1675.3	1669.8	1640.2	1603.5	1555.0	1509.8	1497.9	1459.6	1403.9	1340.7	1277.8
15°	1673.1	1669.2	1639.6	1599.4	1550.5	1510.9	1500.4	1461.8	1402.2	1335.2	1265.6
17.5°	1628.5	1630.2	1605.2	1565.5	1525.4	1495.2	1485.7	1450.2	1390.9	1324.1	1251.1
20°	1550.5	1558.3	1541.5	1506.5	1484.1	1463.5	1457.4	1427.2	1373.7	1308.0	1235.4
22.5°	1472.4	1479.6	1473.0	1443.3	1440.0	1427.8	1424.4	1402.8	1358.7	1298.0	1225.9
25°	1415.0	1421.7	1420.6	1394.8	1405.0	1404.4	1401.7	1390.9	1355.4	1298.0	1227.6
27.5°	1399.4	1401.7	1399.4	1375.9	1389.8	1401.1	1398.9	1397.0	1365.4	1314.1	1248.9
30°	1453.0	1449.6	1432.2	1384.8	1397.8	1413.3	1411.1	1412.2	1395.4	1356.5	1296.3
32.5°	1666.4	1651.3	1596.6	1463.5	1429.4	1437.8	1438.9	1457.4	1460.2	1421.7	1369.8
35°	1985.8	1969.2	1898.3	1674.2	1528.1	1499.2	1499.2	1527.0	1543.7	1515.4	1484.1
37.5°	2324.3	2305.8	2268.0	1966.4	1735.5	1605.7	1602.9	1622.4	1646.3	1653.1	1660.9
40°	2708.9	2689.5	2700.0	2294.1	2024.9	1790.1	1750.5	1736.6	1801.2	1844.2	1906.8
42.5°	3130.0	3120.9	3124.8	2659.3	2354.3	2066.2	2009.9	1937.9	2016.0	2092.3	2223.4
45°	3519.5	3527.3	3523.4	3050.2	2721.3	2402.8	2343.2	2203.8	2280.3	2411.2	2624.8
47.5°	3860.8	3828.4	3878.6	3477.1	3132.2	2779.8	2706.1	2519.5	2596.9	2758.5	3119.8
50°	4275.0	4270.5	4197.0	4047.1	3628.8	3158.3	3061.8	2845.5	2965.9	3190.7	3743.8
52.5°	4710.5	4629.6	4562.2	4490.1	4155.7	3546.4	3428.1	3170.5	3399.7	3682.3	4504.2
55°	4799.5	4763.4	4846.9	4968.0	4663.6	3949.5	3811.7	3578.0	3888.2	4244.4	5381.1
57.5°	4990.3	4989.7	5162.6	5378.4	5186.5	4377.0	4238.1	4070.4	4437.2	4888.2	6312.1
60°	5119.1	5155.2	5476.5	5895.1	5700.0	4871.0	4743.3	4638.5	5061.7	5608.0	7179.6
62.5°	5186.5	5235.6	5673.9	6104.7	6425.8	5693.3	5565.7	5414.7	5887.9	6397.5	7686.9
65°	4906.2	5002.5	5643.1	6286.0	7061.5	7026.3	6968.9	6703.6	6920.9	7021.3	7503.6
67.5°	4130.0	4228.7	4974.7	6117.0	7515.3	8312.0	8324.3	7871.0	7556.6	7074.8	6308.8
70°	2942.6	3020.0	3637.3	5128.6	7169.6	9152.1	9194.0	8408.9	7429.9	6274.2	4407.7
72.5°	1397.0	1444.4	2028.8	3337.9	5689.4	8385.6	8466.5	7722.1	6317.7	4645.1	2404.5
75°	513.5	527.9	685.6	1420.0	3299.9	6184.0	6279.4	5535.6	4188.0	2312.7	916.0
77.5°	307.7	317.2	384.8	599.4	1298.0	3534.7	3675.6	3010.5	1830.3	860.8	450.5
80°	215.2	221.8	275.9	372.9	613.3	1347.0	1472.4	1228.7	729.2	544.7	327.7
82.5°	145.5	148.9	194.0	252.0	407.5	481.0	519.0	546.4	491.8	405.3	207.9
85°	95.4	98.7	131.6	166.1	259.2	248.7	254.2	321.6	359.0	275.3	115.4
87.5°	54.6	56.8	79.2	88.7	127.2	105.4	106.5	169.4	229.8	185.7	70.2
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°	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6	1329.6
2.5°	1324.6	1317.4	1301.3	1291.1	1281.7	1279.5	1275.6	1275.0	1274.5	1274.5	1272.8
5°	1295.0	1282.8	1257.8	1243.7	1232.1	1230.9	1230.4	1233.2	1234.3	1235.4	1233.7
7.5°	1276.1	1259.5	1228.2	1208.2	1194.3	1190.8	1196.5	1209.3	1217.6	1220.9	1219.3
10°	1264.5	1243.7	1207.6	1185.8	1174.1	1172.4	1179.7	1194.8	1212.1	1218.7	1218.2
12.5°	1251.1	1227.6	1189.1	1166.3	1159.7	1163.0	1172.4	1186.3	1204.3	1214.8	1215.4
15°	1237.6	1210.4	1170.8	1150.8	1148.0	1152.4	1161.3	1171.9	1185.8	1196.5	1197.6
17.5°	1221.5	1193.0	1153.6	1132.8	1130.6	1132.8	1133.4	1138.9	1148.0	1158.0	1160.8
20°	1204.3	1175.2	1133.9	1113.4	1103.4	1094.5	1084.3	1085.4	1088.2	1098.4	1100.6
22.5°	1191.9	1163.0	1118.9	1090.4	1063.7	1036.9	1016.9	1014.1	1015.2	1023.6	1026.3
25°	1193.0	1162.4	1115.0	1066.0	1007.5	964.5	937.7	933.2	932.7	938.8	942.8
27.5°	1214.8	1184.1	1129.5	1040.8	946.2	882.5	854.1	850.8	846.4	848.0	852.5
30°	1263.4	1234.8	1164.7	1015.2	879.7	802.3	772.7	769.3	763.2	760.5	763.8
32.5°	1342.4	1319.1	1215.9	990.6	813.4	733.6	703.6	696.4	692.5	689.2	691.9
35°	1474.1	1464.1	1284.5	963.9	754.9	680.7	653.4	642.3	636.8	642.9	647.3
37.5°	1680.3	1685.9	1374.3	922.1	709.7	645.7	622.7	609.9	601.6	606.6	611.6
40°	1972.5	1976.4	1473.5	863.0	670.7	624.9	600.5	588.8	577.0	568.1	567.5
42.5°	2356.0	2316.5	1571.1	799.0	625.5	612.1	584.9	570.3	552.5	527.9	522.9
45°	2810.9	2672.2	1645.2	725.3	574.7	596.6	567.5	547.5	519.6	492.9	490.1
47.5°	3335.1	3054.0	1681.4	649.0	527.3	573.6	546.4	514.6	479.4	466.0	464.4
50°	3975.0	3507.3	1698.7	574.7	486.2	543.6	515.7	478.3	448.8	446.1	444.4
52.5°	4703.8	4052.6	1704.4	514.0	452.2	504.6	490.7	454.4	430.9	433.3	433.3
55°	5466.5	4615.7	1628.5	469.9	420.9	464.4	473.8	444.9	425.3	434.4	437.7
57.5°	6166.6	5114.7	1389.8	436.1	391.4	433.8	467.7	453.8	440.5	476.6	478.8
60°	6704.1	5409.5	1038.0	405.3	369.6	423.1	484.0	487.9	491.2	577.5	589.4
62.5°	6816.7	5311.5	713.6	381.4	359.6	432.2	513.5	514.0	510.1	570.3	577.5
65°	6299.9	4690.9	519.0	367.9	351.2	448.3	538.6	526.8	501.2	547.0	533.4
67.5°	5003.0	3534.2	432.2	357.9	339.0	447.2	565.3	538.6	496.2	535.9	514.0
70°	3247.5	2136.9	384.8	349.6	324.4	425.9	580.8	537.5	481.6	498.5	472.7
72.5°	1584.4	955.6	352.9	337.4	309.4	396.4	580.3	527.3	466.6	465.5	451.6
75°	619.9	437.7	323.8	318.8	283.9	362.9	564.7	512.9	448.8	430.9	425.9
77.5°	362.9	312.2	287.2	291.6	253.1	329.4	542.0	487.9	424.2	403.1	397.5
80°	264.2	233.7	244.8	252.0	216.3	296.1	511.2	457.2	397.0	407.5	399.8
82.5°	169.4	150.5	198.5	205.7	180.2	262.0	477.7	424.8	358.5	325.5	317.7
85°	86.5	95.4	147.8	156.6	138.9	215.2	437.2	382.0	315.0	270.9	275.3
87.5°	48.5	65.2	94.2	105.4	98.1	165.5	354.6	315.0	257.0	209.0	184.0
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)