

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: P650772

Luminaire Tested: **GALN-SA2C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11898.5 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

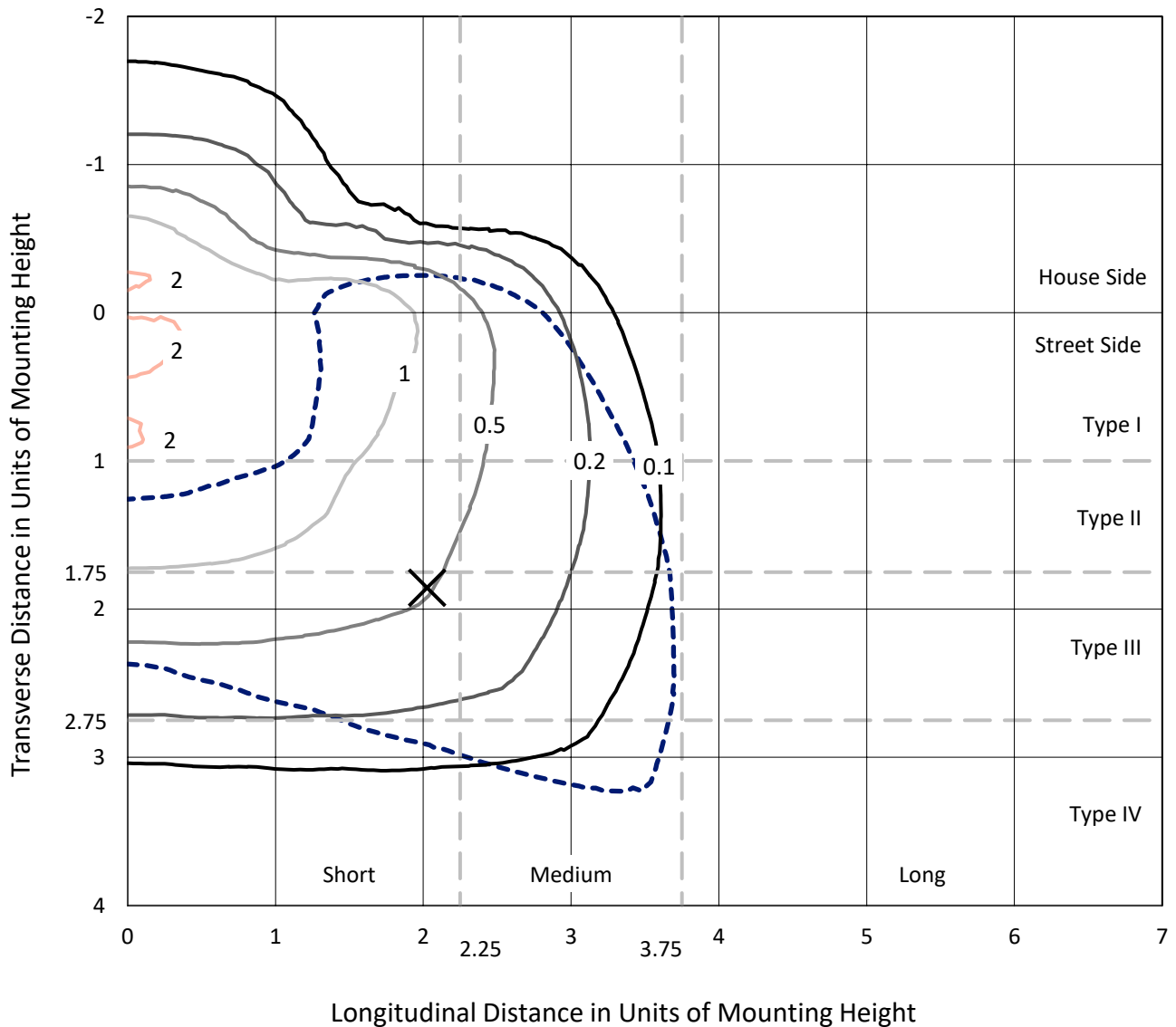
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

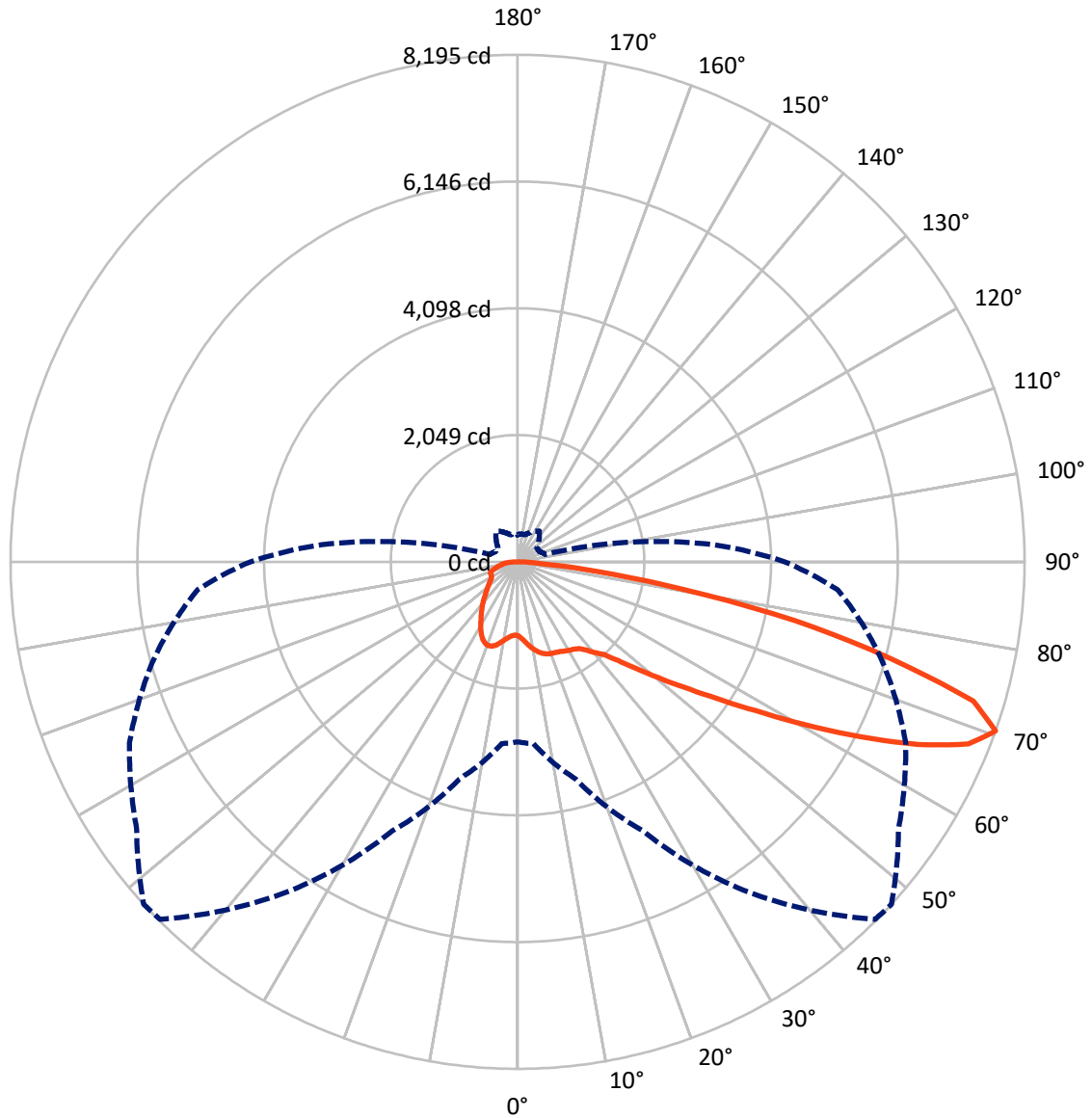
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2694.0	0.0	2694.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	9204.4	0.0	9204.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11898.5	0.0	11898.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	1.0
10°-20°	411.6	3.5
20°-30°	684.5	5.8
30°-40°	970.2	8.2
40°-50°	1432.2	12.0
50°-60°	2480.6	20.8
60°-70°	3504.0	29.4
70°-80°	2014.3	16.9
80°-90°	277.9	2.3
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°	11898.5	100.0
0°-180°	11898.5	100.0

**Coefficient of Utilization**



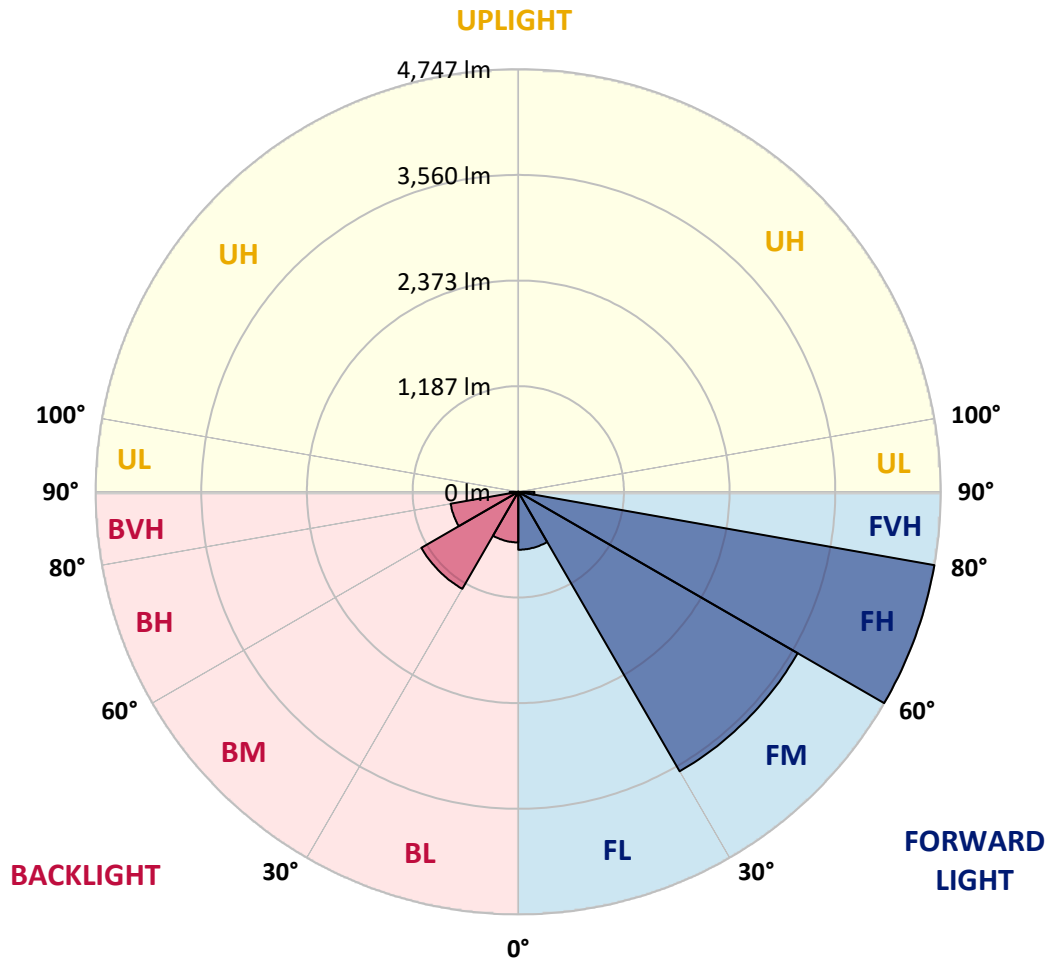
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.7	5.5			
FM (30°-60°)	3625.2	30.5			
FH (60°-80°)	4747.0	39.9			G2/5000
FVH (80°-90°)	181.5	1.5			G2/225
BL (0°-30°)	568.6	4.8	B2/1000		
BM (30°-60°)	1257.8	10.6	B2/2500		
BH (60°-80°)	771.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	96.4	0.8			G1/100
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°	47.5°	55°	65°	75°	85°
0°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1271.5	1267.1	1266.4	1256.9	1251.7	1242.2	1238.4	1229.5	1218.7	1207.8	1197.7
5°	1371.5	1371.5	1367.0	1353.7	1332.6	1311.0	1301.4	1284.2	1253.7	1228.9	1207.8
7.5°	1473.9	1475.3	1466.4	1446.6	1416.7	1381.7	1372.8	1347.3	1304.0	1267.7	1236.5
10°	1562.5	1562.5	1550.4	1523.6	1486.0	1447.9	1439.0	1410.3	1361.9	1316.7	1276.0
12.5°	1629.9	1629.9	1614.0	1579.1	1538.3	1503.9	1493.7	1466.4	1421.1	1370.8	1319.3
15°	1673.9	1670.7	1652.9	1613.5	1573.9	1544.0	1537.0	1514.1	1472.7	1421.8	1363.8
17.5°	1675.8	1674.5	1657.4	1624.2	1589.8	1569.5	1565.0	1549.7	1517.2	1468.9	1407.7
20°	1638.9	1641.5	1629.9	1606.4	1589.8	1580.9	1579.1	1573.9	1551.1	1505.8	1444.7
22.5°	1599.4	1603.9	1593.0	1580.3	1579.1	1588.0	1589.2	1590.5	1575.9	1531.9	1475.9
25°	1589.8	1593.0	1582.3	1570.7	1577.8	1601.3	1606.4	1611.5	1600.1	1563.1	1512.8
27.5°	1638.3	1635.7	1614.7	1589.8	1594.3	1626.2	1633.1	1638.9	1633.1	1601.3	1558.6
30°	1775.1	1766.9	1724.8	1652.2	1629.4	1651.6	1658.6	1674.5	1674.5	1651.0	1608.3
32.5°	2004.4	1988.5	1911.4	1768.8	1689.1	1675.8	1682.8	1708.9	1722.3	1703.9	1657.4
35°	2282.6	2266.1	2155.9	1964.2	1798.7	1724.2	1722.3	1751.6	1787.2	1745.8	1685.4
37.5°	2562.1	2545.0	2412.5	2197.3	1958.5	1826.1	1814.6	1824.8	1840.1	1764.3	1724.2
40°	2841.7	2821.2	2705.3	2457.7	2154.0	1961.0	1931.1	1885.3	1879.0	1824.8	1799.3
42.5°	3118.6	3100.1	3041.6	2749.9	2388.3	2092.8	2047.0	1968.0	1992.2	1959.8	1937.5
45°	3398.1	3399.4	3337.0	3077.8	2671.0	2336.0	2274.3	2150.8	2208.1	2196.0	2208.7
47.5°	3645.8	3642.6	3620.3	3396.2	3021.8	2649.3	2569.8	2426.5	2524.5	2569.1	2666.6
50°	3885.8	3883.9	3885.2	3757.3	3429.3	3021.8	2933.9	2783.7	3004.6	3159.3	3333.8
52.5°	4229.6	4240.5	4163.5	4129.6	3924.7	3461.8	3365.0	3209.7	3571.9	3815.8	4156.4
55°	4574.7	4565.8	4505.3	4540.4	4442.9	3982.6	3881.4	3757.8	4203.6	4470.3	4982.3
57.5°	4777.9	4781.0	4842.8	5014.0	5082.8	4632.1	4540.4	4444.9	4913.5	5102.6	5717.0
60°	4960.6	4975.3	5152.9	5476.3	5662.9	5429.8	5348.3	5255.4	5564.8	5639.9	6355.0
62.5°	5017.9	5063.1	5373.1	5857.1	6228.3	6330.1	6228.9	6023.9	6185.0	6155.7	6787.3
65°	4732.0	4793.8	5349.6	5999.7	6733.2	7184.6	7120.3	6739.5	6713.5	6537.1	6857.9
67.5°	3979.4	4041.2	4754.9	5700.5	6942.0	7924.5	7860.2	7261.6	7034.4	6572.8	6323.1
70°	2911.6	2950.5	3633.0	4799.5	6522.5	8172.8	8195.0	7516.4	6919.7	6088.2	5191.7
72.5°	1677.7	1763.7	2241.9	3376.4	5328.6	7544.9	7699.7	6986.6	6195.1	5079.1	3629.8
75°	721.4	723.3	1036.5	1862.4	3608.9	6064.6	6214.2	5791.5	4865.1	3512.1	1938.2
77.5°	343.2	349.5	455.9	831.6	1986.5	4190.2	4593.9	4091.5	3111.6	1687.3	732.2
80°	222.9	227.3	278.9	412.6	974.1	2429.6	2711.1	2360.3	1372.8	603.0	315.8
82.5°	135.0	136.2	186.5	252.1	536.1	1100.2	1297.0	1024.4	585.8	361.0	185.9
85°	82.2	82.8	113.4	156.0	325.4	380.1	390.3	387.1	343.8	236.2	99.3
87.5°	39.4	40.8	58.6	73.8	128.0	117.8	111.4	129.3	162.4	127.3	42.6
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°	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5	1194.5
2.5°	1193.2	1191.3	1186.8	1184.9	1183.6	1184.3	1183.6	1183.6	1184.3	1184.3	1184.3
5°	1198.9	1195.7	1188.8	1188.8	1192.5	1201.5	1209.8	1216.1	1223.2	1222.5	1222.5
7.5°	1223.7	1218.0	1209.8	1212.3	1221.8	1235.8	1250.5	1264.5	1278.5	1279.7	1279.2
10°	1260.1	1254.4	1245.4	1248.5	1263.9	1284.9	1303.4	1323.7	1339.0	1343.4	1342.2
12.5°	1301.4	1290.0	1282.4	1291.3	1315.4	1343.4	1361.2	1376.5	1387.4	1393.8	1391.2
15°	1343.4	1332.6	1323.7	1342.2	1371.5	1397.6	1406.5	1409.0	1410.9	1417.3	1416.1
17.5°	1384.2	1369.6	1366.4	1390.6	1418.6	1430.0	1425.0	1414.1	1405.8	1410.9	1410.3
20°	1420.5	1409.0	1407.7	1432.0	1442.8	1432.0	1410.3	1391.2	1376.5	1377.8	1377.2
22.5°	1454.8	1445.9	1447.3	1457.5	1440.2	1403.3	1367.6	1341.6	1325.6	1328.8	1330.7
25°	1493.1	1484.2	1487.3	1470.8	1414.1	1349.8	1298.3	1276.0	1269.6	1276.0	1280.4
27.5°	1542.7	1537.0	1535.1	1471.4	1367.6	1270.8	1212.3	1204.0	1209.8	1223.7	1230.7
30°	1596.2	1596.2	1586.0	1460.6	1304.0	1176.0	1125.1	1126.4	1146.1	1165.8	1172.8
32.5°	1647.8	1658.6	1626.7	1431.3	1221.8	1083.7	1044.9	1046.1	1063.3	1087.5	1093.9
35°	1690.5	1721.7	1661.8	1377.8	1125.1	1006.0	976.7	959.5	960.2	978.6	983.7
37.5°	1749.0	1807.0	1682.2	1298.3	1021.9	939.8	906.7	876.7	857.0	849.3	849.3
40°	1850.9	1936.2	1687.3	1180.4	924.5	876.7	829.6	794.0	755.8	721.4	715.0
42.5°	2023.4	2131.1	1677.1	1044.9	836.6	807.4	761.5	717.5	664.7	616.4	612.5
45°	2329.1	2384.5	1649.7	904.2	758.3	740.5	695.9	648.2	592.1	548.8	545.6
47.5°	2818.7	2740.4	1613.5	779.4	687.0	681.9	647.6	592.1	536.1	506.2	503.0
50°	3533.7	3300.7	1608.3	688.9	629.7	632.3	604.3	553.3	504.3	479.5	475.6
52.5°	4394.6	3977.5	1642.1	625.3	579.4	589.0	574.9	527.8	484.5	463.6	459.7
55°	5229.9	4586.2	1662.4	575.6	532.3	550.1	552.0	512.6	473.1	452.0	449.5
57.5°	5908.0	5044.7	1572.0	530.4	491.6	518.9	532.9	503.7	467.3	451.4	448.8
60°	6379.8	5261.1	1314.8	490.3	461.6	494.1	526.0	504.3	481.4	483.2	484.5
62.5°	6530.1	5165.0	986.2	460.4	441.3	485.8	537.4	530.4	506.8	521.5	524.0
65°	6281.1	4767.6	715.0	436.8	423.4	491.6	571.8	549.5	497.9	508.7	508.7
67.5°	5447.7	4107.4	556.5	415.1	403.0	502.3	606.1	547.6	476.9	489.6	478.2
70°	4321.3	3177.1	463.6	390.9	381.4	486.4	609.3	527.8	452.0	454.6	432.9
72.5°	2867.7	2089.0	398.5	368.0	348.3	437.4	583.2	502.3	427.9	413.2	391.6
75°	1405.2	1041.7	347.7	339.3	304.9	380.7	547.6	478.2	401.7	378.9	366.8
77.5°	544.4	443.1	296.7	303.1	265.5	335.6	500.5	443.8	367.3	336.1	326.6
80°	264.2	251.5	243.2	252.8	218.4	285.9	457.2	413.9	335.6	301.2	287.1
82.5°	164.2	155.3	186.5	196.7	168.1	261.0	433.6	388.4	295.4	249.6	238.1
85°	83.4	89.1	124.8	134.3	120.3	207.6	357.2	291.6	213.3	177.0	178.3
87.5°	31.9	42.6	65.6	70.6	64.3	109.5	196.7	170.0	136.9	92.9	86.0
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)