

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: P522686

Luminaire Tested: **GALN-SA3A-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522686  
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-SA3A-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11425 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

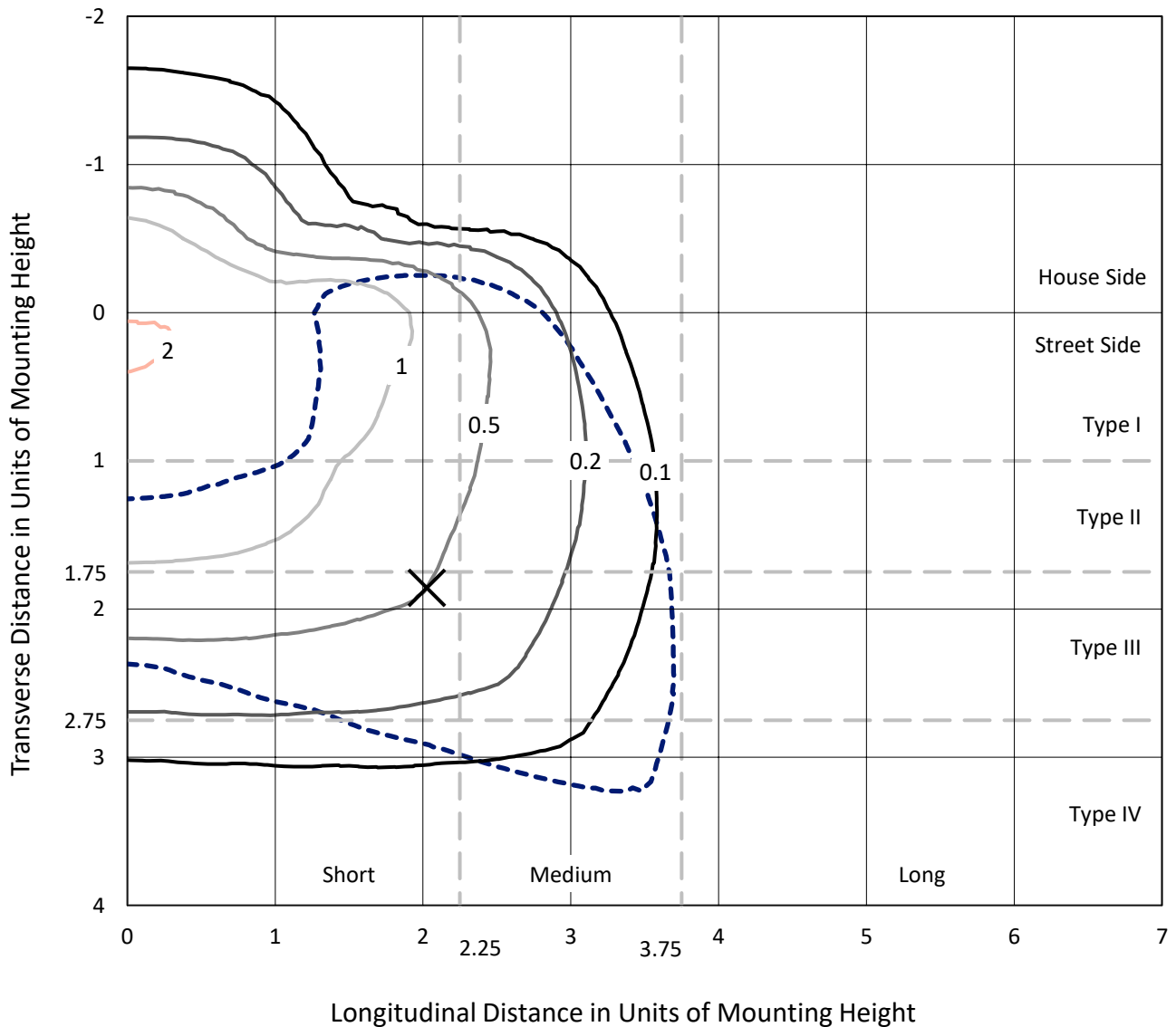
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

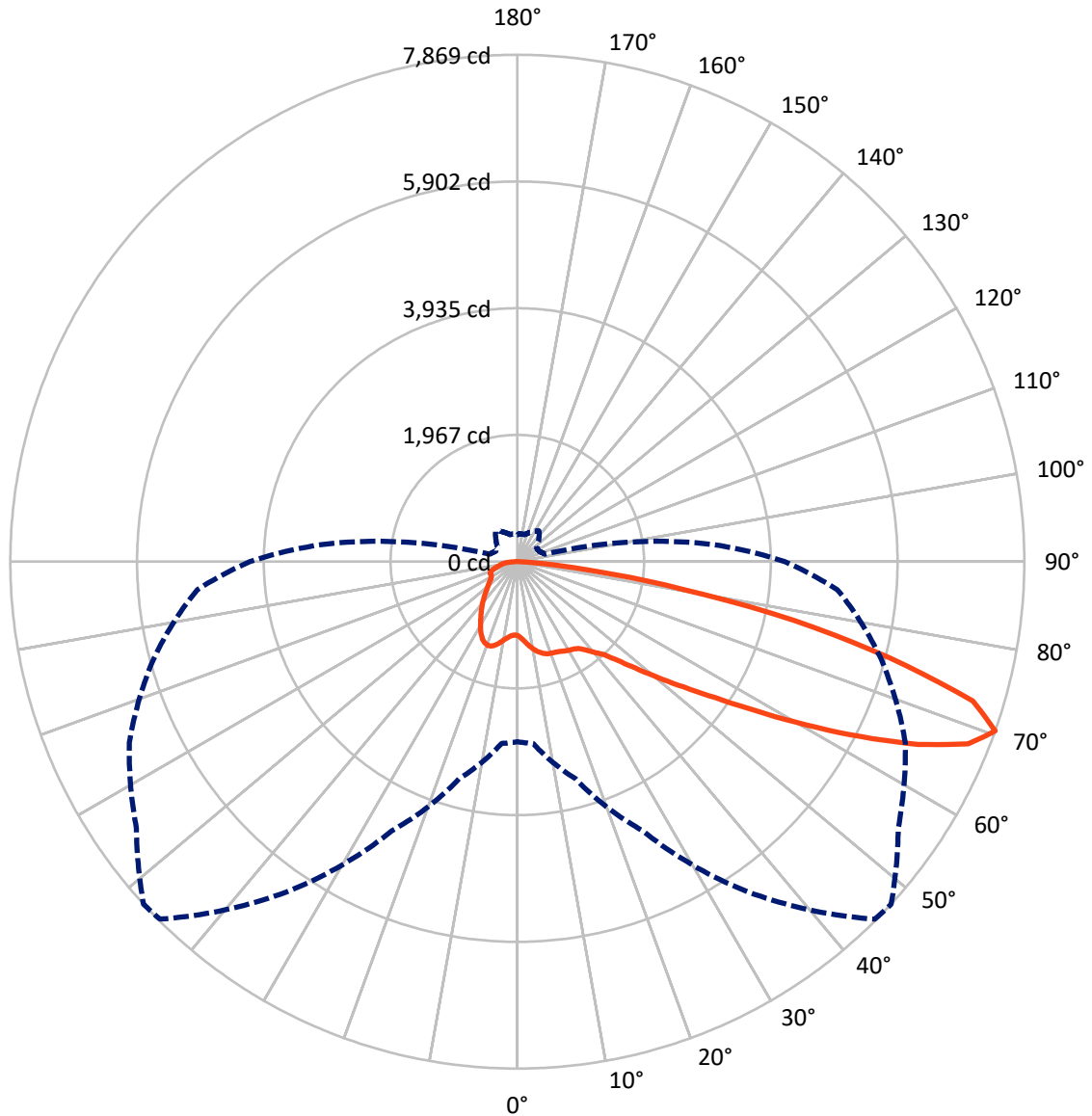
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	2586.8	0.0	2586.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8838.2	0.0	8838.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11425.0	0.0	11425.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.2	1.0
10°-20°	395.2	3.5
20°-30°	657.3	5.8
30°-40°	931.6	8.2
40°-50°	1375.2	12.0
50°-60°	2381.9	20.8
60°-70°	3364.6	29.4
70°-80°	1934.1	16.9
80°-90°	266.9	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°	11425.0	100.0
0°-180°	11425.0	100.0

**Coefficient of Utilization**



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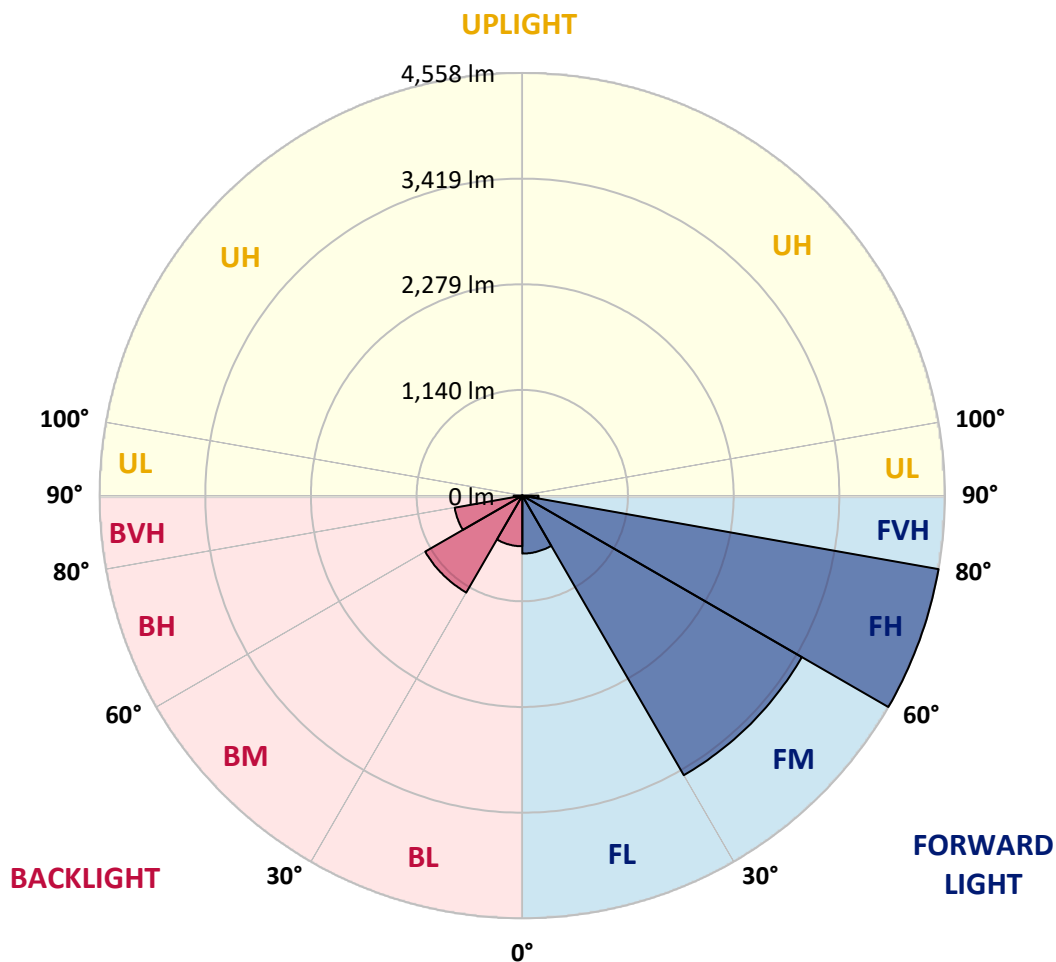
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.8	5.5			
FM	(30°-60°)	3481.0	30.5			
FH	(60°-80°)	4558.1	39.9			G2/5000
FVH	(80°-90°)	174.3	1.5			G2/225
BL	(0°-30°)	546.0	4.8	B2/1000		
BM	(30°-60°)	1207.8	10.6	B2/2500		
BH	(60°-80°)	740.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	92.5	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°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
2.5°	1220.9	1216.6	1216.0	1206.8	1202.0	1192.8	1189.1	1180.6	1170.2	1159.8	1150.0
5°	1316.9	1316.9	1312.6	1299.8	1279.6	1258.8	1249.6	1233.1	1203.8	1179.9	1159.8
7.5°	1415.3	1416.5	1408.0	1389.0	1360.3	1326.7	1318.1	1293.7	1252.1	1217.2	1187.3
10°	1500.3	1500.3	1488.7	1463.0	1426.9	1390.3	1381.7	1354.2	1307.7	1264.3	1225.2
12.5°	1565.1	1565.1	1549.8	1516.2	1477.1	1444.1	1434.3	1408.0	1364.6	1316.3	1266.8
15°	1607.3	1604.2	1587.1	1549.2	1511.3	1482.6	1475.9	1453.8	1414.1	1365.2	1309.6
17.5°	1609.1	1607.9	1591.4	1559.6	1526.6	1507.0	1502.8	1488.1	1456.9	1410.4	1351.7
20°	1573.7	1576.1	1565.1	1542.5	1526.6	1518.0	1516.2	1511.3	1489.3	1445.9	1387.2
22.5°	1535.8	1540.0	1529.7	1517.4	1516.2	1524.8	1526.0	1527.2	1513.1	1471.0	1417.2
25°	1526.6	1529.7	1519.3	1508.3	1515.0	1537.6	1542.5	1547.4	1536.4	1500.9	1452.6
27.5°	1573.1	1570.6	1550.4	1526.6	1530.9	1561.4	1568.2	1573.7	1568.2	1537.6	1496.6
30°	1704.5	1696.6	1656.2	1586.5	1564.5	1585.9	1592.6	1607.9	1607.9	1585.3	1544.3
32.5°	1924.6	1909.3	1835.3	1698.4	1622.0	1609.1	1615.9	1640.9	1653.8	1636.0	1591.4
35°	2191.8	2175.9	2070.1	1886.1	1727.1	1655.6	1653.8	1681.9	1716.1	1676.4	1618.3
37.5°	2460.2	2443.7	2316.5	2109.8	1880.6	1753.4	1742.4	1752.2	1766.9	1694.1	1655.6
40°	2728.6	2709.0	2597.7	2359.9	2068.3	1883.0	1854.3	1810.3	1804.2	1752.2	1727.7
42.5°	2994.5	2976.8	2920.5	2640.5	2293.3	2009.6	1965.6	1889.7	1913.0	1881.8	1860.4
45°	3262.9	3264.1	3204.2	2955.4	2564.7	2243.1	2183.8	2065.2	2120.2	2108.6	2120.8
47.5°	3500.7	3497.7	3476.3	3261.1	2901.6	2543.9	2467.5	2329.9	2424.1	2466.9	2560.4
50°	3731.2	3729.4	3730.6	3607.7	3292.8	2901.6	2817.2	2672.9	2885.1	3033.6	3201.1
52.5°	4061.3	4071.7	3997.8	3965.4	3768.5	3324.0	3231.1	3081.9	3429.8	3663.9	3991.0
55°	4392.7	4384.1	4326.1	4359.7	4266.1	3824.1	3726.9	3608.3	4036.3	4292.4	4784.0
57.5°	4587.7	4590.8	4650.1	4814.5	4880.6	4447.7	4359.7	4268.0	4718.0	4899.5	5489.5
60°	4763.2	4777.3	4947.8	5258.4	5437.5	5213.8	5135.5	5046.3	5343.4	5415.5	6102.1
62.5°	4818.2	4861.6	5159.4	5624.0	5980.4	6078.3	5981.0	5784.2	5938.9	5910.7	6517.2
65°	4543.7	4603.0	5136.7	5761.0	6465.3	6898.7	6837.0	6471.4	6446.3	6276.9	6585.1
67.5°	3821.1	3880.4	4565.7	5473.6	6665.8	7609.1	7547.4	6972.7	6754.4	6311.2	6071.5
70°	2795.8	2833.1	3488.5	4608.5	6262.9	7847.6	7869.0	7217.2	6644.4	5845.9	4985.1
72.5°	1611.0	1693.5	2152.6	3242.1	5116.6	7244.7	7393.3	6708.6	5948.6	4876.9	3485.4
75°	692.7	694.5	995.3	1788.3	3465.3	5823.3	5967.0	5561.0	4671.5	3372.3	1861.0
77.5°	329.5	335.6	437.7	798.5	1907.5	4023.4	4411.0	3928.7	2987.8	1620.1	703.1
80°	214.0	218.3	267.8	396.2	935.4	2333.0	2603.2	2266.4	1318.1	579.0	303.2
82.5°	129.6	130.8	179.1	242.1	514.8	1056.4	1245.4	983.7	562.5	346.6	178.5
85°	78.9	79.5	108.8	149.8	312.4	365.0	374.8	371.7	330.1	226.8	95.4
87.5°	37.9	39.1	56.2	70.9	122.9	113.1	107.0	124.1	155.9	122.3	41.0
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°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
2.5°	1145.7	1143.9	1139.6	1137.8	1136.5	1137.2	1136.5	1136.5	1137.2	1137.2	1137.2
5°	1151.2	1148.2	1141.4	1141.4	1145.1	1153.7	1161.6	1167.7	1174.4	1173.8	1173.8
7.5°	1175.1	1169.6	1161.6	1164.1	1173.2	1186.7	1200.7	1214.2	1227.6	1228.9	1228.2
10°	1209.9	1204.4	1195.8	1198.9	1213.6	1233.7	1251.5	1271.0	1285.7	1290.0	1288.8
12.5°	1249.6	1238.6	1231.3	1239.9	1263.1	1290.0	1307.1	1321.8	1332.2	1338.3	1335.8
15°	1290.0	1279.6	1271.0	1288.8	1316.9	1342.0	1350.5	1353.0	1354.8	1360.9	1359.7
17.5°	1329.1	1315.1	1312.0	1335.2	1362.1	1373.1	1368.2	1357.9	1349.9	1354.8	1354.2
20°	1364.0	1353.0	1351.7	1375.0	1385.4	1375.0	1354.2	1335.8	1321.8	1323.0	1322.4
22.5°	1397.0	1388.4	1389.6	1399.4	1382.9	1347.5	1313.2	1288.2	1272.9	1275.9	1277.8
25°	1433.7	1425.1	1428.2	1412.3	1357.9	1296.1	1246.6	1225.2	1219.1	1225.2	1229.5
27.5°	1481.4	1475.9	1474.0	1412.9	1313.2	1220.3	1164.1	1156.1	1161.6	1175.1	1181.8
30°	1532.7	1532.7	1522.9	1402.5	1252.1	1129.2	1080.3	1081.5	1100.5	1119.4	1126.1
32.5°	1582.2	1592.6	1562.1	1374.4	1173.2	1040.6	1003.3	1004.5	1021.0	1044.2	1050.3
35°	1623.2	1653.1	1595.7	1323.0	1080.3	966.0	937.8	921.3	921.9	939.7	944.6
37.5°	1679.4	1735.1	1615.2	1246.6	981.3	902.4	870.6	841.9	822.9	815.6	815.6
40°	1777.3	1859.2	1620.1	1133.5	887.7	841.9	796.6	762.4	725.7	692.7	686.6
42.5°	1942.9	2046.3	1610.4	1003.3	803.3	775.2	731.2	689.0	638.3	591.8	588.1
45°	2236.4	2289.6	1584.1	868.1	728.1	711.0	668.2	622.4	568.6	527.0	523.9
47.5°	2706.5	2631.3	1549.2	748.3	659.7	654.8	621.8	568.6	514.8	486.0	483.0
50°	3393.1	3169.3	1544.3	661.5	604.6	607.1	580.2	531.3	484.2	460.4	456.7
52.5°	4219.7	3819.2	1576.7	600.4	556.3	565.5	552.1	506.8	465.3	445.1	441.4
55°	5021.8	4403.7	1596.3	552.7	511.1	528.2	530.1	492.2	454.2	434.1	431.6
57.5°	5672.9	4843.9	1509.5	509.3	472.0	498.3	511.7	483.6	448.7	433.5	431.0
60°	6125.9	5051.8	1262.5	470.8	443.2	474.4	505.0	484.2	462.2	464.0	465.3
62.5°	6270.2	4959.4	947.0	442.0	423.7	466.5	516.0	509.3	486.7	500.7	503.2
65°	6031.2	4577.9	686.6	419.4	406.6	472.0	549.0	527.6	478.1	488.5	488.5
67.5°	5230.9	3944.0	534.3	398.6	387.0	482.4	582.0	525.8	457.9	470.1	459.1
70°	4149.4	3050.7	445.1	375.4	366.2	467.1	585.1	506.8	434.1	436.5	415.7
72.5°	2753.6	2005.9	382.7	353.4	334.4	420.0	560.0	482.4	410.8	396.8	376.0
75°	1349.3	1000.2	333.8	325.9	292.8	365.6	525.8	459.1	385.8	363.8	352.1
77.5°	522.7	425.5	284.9	291.0	254.9	322.2	480.5	426.1	352.8	322.8	313.6
80°	253.7	241.5	233.5	242.7	209.7	274.5	439.0	397.4	322.2	289.2	275.7
82.5°	157.7	149.2	179.1	188.9	161.4	250.7	416.3	372.9	283.7	239.7	228.7
85°	80.1	85.6	119.8	129.0	115.5	199.3	343.0	280.0	204.8	170.0	171.2
87.5°	30.6	41.0	63.0	67.9	61.7	105.2	188.9	163.2	131.4	89.3	82.5
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)