

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: P522661

Luminaire Tested: **GALN-SA2B-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522661  
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-SA2B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10667 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

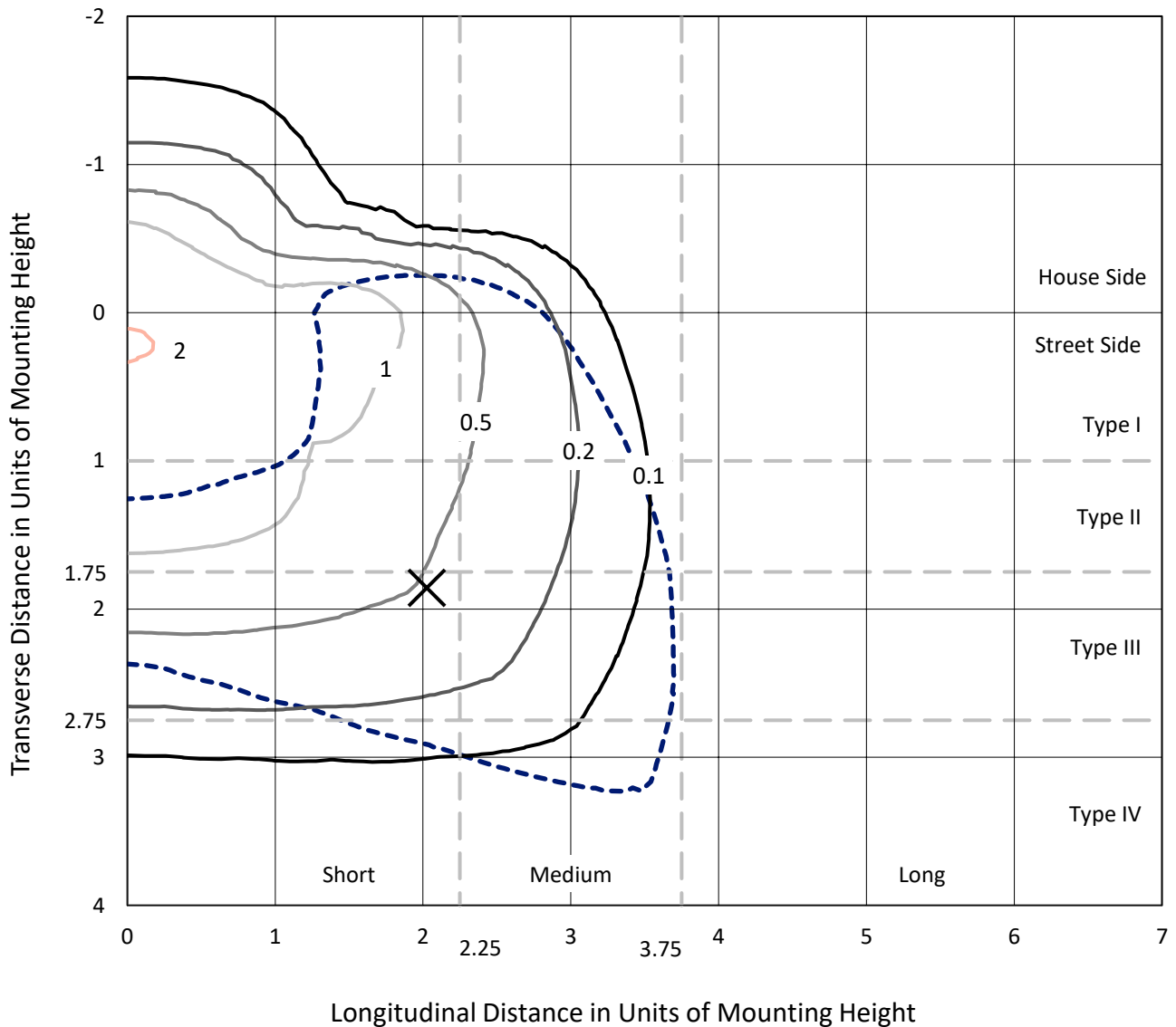
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

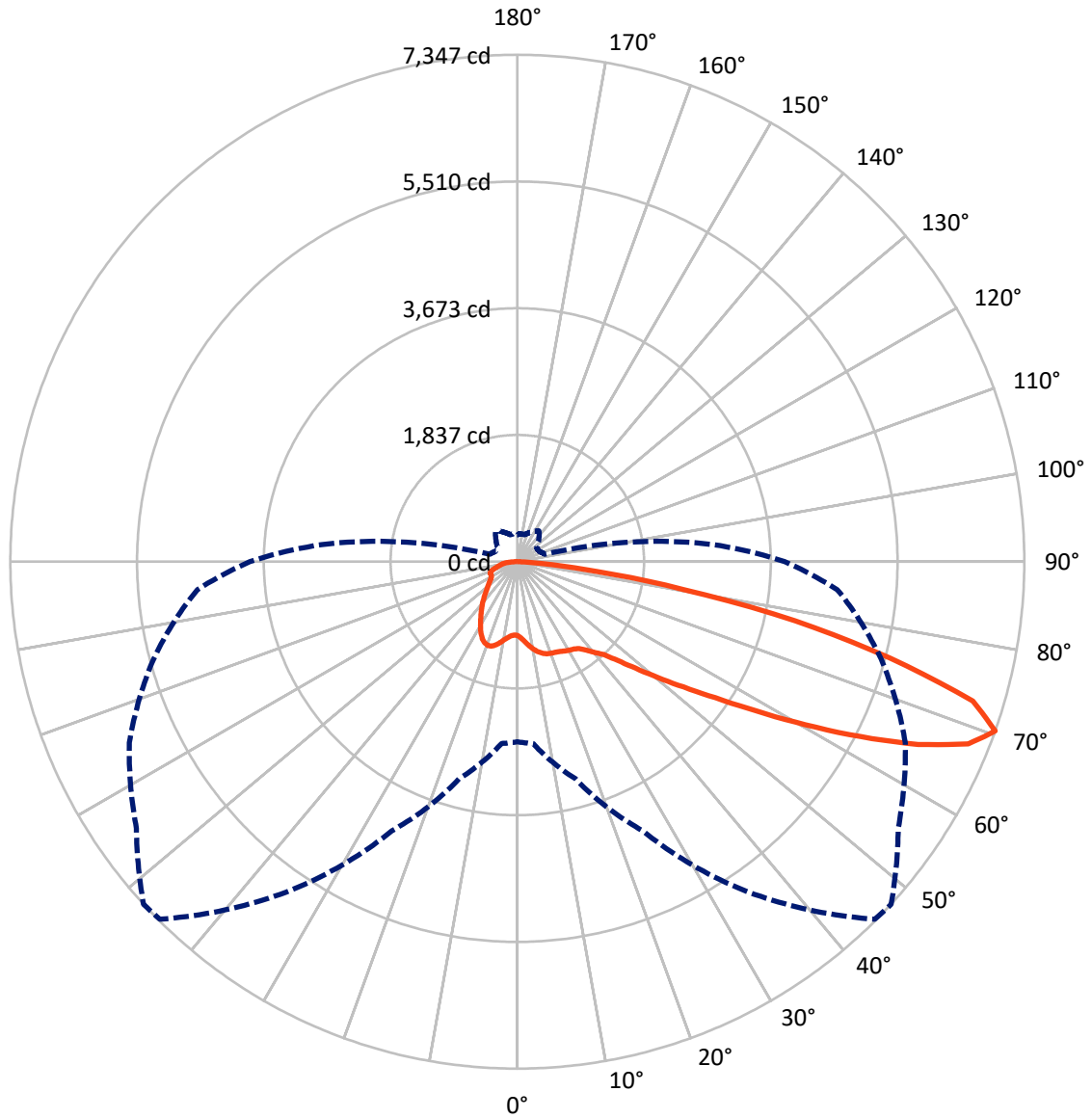
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	2415.2	0.0	2415.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8251.8	0.0	8251.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	10667.0	0.0	10667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.0
10°-20°	369.0	3.5
20°-30°	613.7	5.8
30°-40°	869.8	8.2
40°-50°	1284.0	12.0
50°-60°	2223.9	20.8
60°-70°	3141.3	29.4
70°-80°	1805.8	16.9
80°-90°	249.2	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°	10667.0	100.0
0°-180°	10667.0	100.0

**Coefficient of Utilization**



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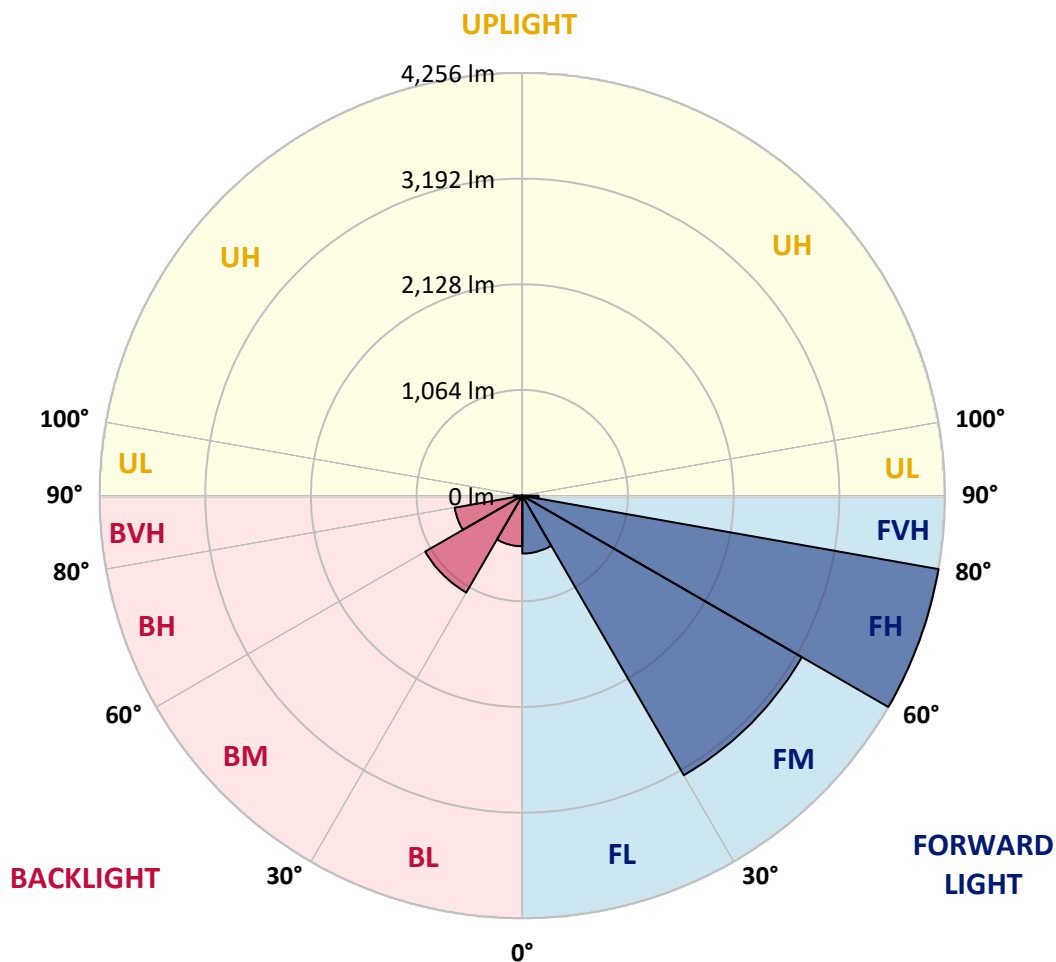
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.3	5.5			
FM	(30°-60°)	3250.0	30.5			
FH	(60°-80°)	4255.7	39.9			G2/5000
FVH	(80°-90°)	162.8	1.5			G2/225
BL	(0°-30°)	509.7	4.8	B2/1000		
BM	(30°-60°)	1127.6	10.6	B2/2500		
BH	(60°-80°)	691.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	86.4	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°	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8
2.5°	1139.9	1135.9	1135.3	1126.8	1122.2	1113.6	1110.2	1102.2	1092.5	1082.8	1073.7
5°	1229.5	1229.5	1225.5	1213.5	1194.7	1175.3	1166.7	1151.3	1123.9	1101.7	1082.8
7.5°	1321.4	1322.6	1314.6	1296.9	1270.1	1238.7	1230.7	1207.8	1169.0	1136.5	1108.5
10°	1400.8	1400.8	1389.9	1365.9	1332.3	1298.0	1290.0	1264.3	1221.0	1180.4	1143.9
12.5°	1461.3	1461.3	1447.0	1415.6	1379.1	1348.3	1339.1	1314.6	1274.0	1229.0	1182.7
15°	1500.7	1497.8	1481.8	1446.4	1411.0	1384.2	1377.9	1357.4	1320.3	1274.6	1222.7
17.5°	1502.4	1501.2	1485.8	1456.1	1425.3	1407.0	1403.0	1389.4	1360.2	1316.9	1262.1
20°	1469.3	1471.5	1461.3	1440.2	1425.3	1417.3	1415.6	1411.0	1390.5	1350.0	1295.2
22.5°	1433.9	1437.9	1428.2	1416.7	1415.6	1423.6	1424.7	1425.9	1412.8	1373.4	1323.1
25°	1425.3	1428.2	1418.5	1408.2	1414.5	1435.6	1440.2	1444.7	1434.4	1401.3	1356.2
27.5°	1468.7	1466.4	1447.6	1425.3	1429.3	1457.8	1464.1	1469.3	1464.1	1435.6	1397.3
30°	1591.4	1584.0	1546.3	1481.3	1460.7	1480.7	1487.0	1501.2	1501.2	1480.1	1441.9
32.5°	1796.9	1782.6	1713.6	1585.7	1514.4	1502.4	1508.6	1532.1	1544.0	1527.5	1485.8
35°	2046.4	2031.5	1932.8	1760.9	1612.5	1545.8	1544.0	1570.3	1602.3	1565.2	1510.9
37.5°	2296.9	2281.5	2162.8	1969.9	1755.8	1637.1	1626.8	1635.9	1649.6	1581.7	1545.8
40°	2547.5	2529.3	2425.4	2203.3	1931.0	1758.1	1731.3	1690.2	1684.5	1635.9	1613.1
42.5°	2795.8	2779.3	2726.8	2465.3	2141.1	1876.3	1835.2	1764.4	1786.1	1757.0	1737.0
45°	3046.4	3047.6	2991.6	2759.3	2394.5	2094.3	2038.9	1928.2	1979.6	1968.7	1980.1
47.5°	3268.5	3265.6	3245.6	3044.7	2709.1	2375.1	2303.8	2175.4	2263.3	2303.2	2390.5
50°	3483.6	3481.9	3483.1	3368.3	3074.4	2709.1	2630.3	2495.6	2693.6	2832.4	2988.8
52.5°	3791.9	3801.6	3732.5	3702.3	3518.5	3103.5	3016.7	2877.5	3202.2	3420.9	3726.2
55°	4101.3	4093.3	4039.0	4070.4	3983.1	3570.4	3479.7	3368.9	3768.5	4007.7	4466.6
57.5°	4283.4	4286.2	4341.6	4495.1	4556.8	4152.6	4070.4	3984.8	4404.9	4574.5	5125.3
60°	4447.2	4460.3	4619.6	4909.5	5076.8	4867.9	4794.8	4711.5	4988.9	5056.2	5697.2
62.5°	4498.5	4539.1	4817.1	5250.9	5583.7	5675.0	5584.2	5400.4	5544.8	5518.6	6084.8
65°	4242.3	4297.6	4795.9	5378.7	6036.3	6441.0	6383.4	6042.0	6018.6	5860.5	6148.2
67.5°	3567.6	3622.9	4262.8	5110.5	6223.5	7104.3	7046.6	6510.1	6306.3	5892.5	5668.7
70°	2610.3	2645.1	3257.0	4302.8	5847.4	7326.9	7346.9	6738.4	6203.6	5458.1	4654.4
72.5°	1504.1	1581.1	2009.8	3027.0	4777.1	6764.1	6902.8	6263.5	5554.0	4553.3	3254.2
75°	646.7	648.4	929.3	1669.6	3235.3	5437.0	5571.1	5192.1	4361.6	3148.6	1737.5
77.5°	307.7	313.4	408.7	745.5	1780.9	3756.5	4118.4	3668.0	2789.5	1512.6	656.4
80°	199.8	203.8	250.0	369.9	873.3	2178.2	2430.5	2116.0	1230.7	540.6	283.1
82.5°	121.0	122.2	167.2	226.0	480.6	986.4	1162.7	918.4	525.1	323.6	166.7
85°	73.6	74.2	101.6	139.8	291.7	340.8	349.9	347.1	308.2	211.8	89.0
87.5°	35.4	36.5	52.5	66.2	114.7	105.6	99.9	115.9	145.6	114.2	38.2
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°	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8	1070.8
2.5°	1069.7	1068.0	1064.0	1062.3	1061.1	1061.7	1061.1	1061.1	1061.7	1061.7	1061.7
5°	1074.8	1072.0	1065.7	1065.7	1069.1	1077.1	1084.5	1090.2	1096.5	1096.0	1096.0
7.5°	1097.1	1092.0	1084.5	1086.8	1095.4	1107.9	1121.1	1133.6	1146.2	1147.3	1146.8
10°	1129.6	1124.5	1116.5	1119.4	1133.1	1151.9	1168.4	1186.7	1200.4	1204.4	1203.3
12.5°	1166.7	1156.5	1149.6	1157.6	1179.3	1204.4	1220.4	1234.1	1243.8	1249.5	1247.2
15°	1204.4	1194.7	1186.7	1203.3	1229.5	1252.9	1260.9	1263.2	1264.9	1270.6	1269.5
17.5°	1240.9	1227.8	1225.0	1246.6	1271.8	1282.0	1277.5	1267.8	1260.3	1264.9	1264.3
20°	1273.5	1263.2	1262.1	1283.8	1293.5	1283.8	1264.3	1247.2	1234.1	1235.2	1234.7
22.5°	1304.3	1296.3	1297.4	1306.6	1291.2	1258.1	1226.1	1202.7	1188.4	1191.3	1193.0
25°	1338.5	1330.6	1333.4	1318.6	1267.8	1210.1	1163.9	1143.9	1138.2	1143.9	1147.9
27.5°	1383.1	1377.9	1376.2	1319.1	1226.1	1139.3	1086.8	1079.4	1084.5	1097.1	1103.4
30°	1431.0	1431.0	1421.9	1309.4	1169.0	1054.3	1008.6	1009.8	1027.5	1045.2	1051.4
32.5°	1477.3	1487.0	1458.4	1283.2	1095.4	971.5	936.7	937.8	953.3	974.9	980.7
35°	1515.5	1543.5	1489.8	1235.2	1008.6	901.9	875.6	860.2	860.8	877.3	881.9
37.5°	1568.0	1620.0	1508.1	1163.9	916.1	842.5	812.8	786.0	768.3	761.5	761.5
40°	1659.3	1735.8	1512.6	1058.3	828.8	786.0	743.8	711.8	677.6	646.7	641.0
42.5°	1814.0	1910.5	1503.5	936.7	750.0	723.8	682.7	643.3	595.9	552.5	549.1
45°	2088.0	2137.7	1479.0	810.5	679.8	663.9	623.9	581.1	530.9	492.0	489.2
47.5°	2527.0	2456.8	1446.4	698.7	615.9	611.3	580.5	530.9	480.6	453.8	450.9
50°	3168.0	2959.1	1441.9	617.6	564.5	566.8	541.7	496.0	452.1	429.8	426.4
52.5°	3939.7	3565.8	1472.1	560.5	519.4	528.0	515.4	473.2	434.4	415.5	412.1
55°	4688.6	4111.5	1490.4	516.0	477.2	493.2	494.9	459.5	424.1	405.3	403.0
57.5°	5296.5	4522.5	1409.3	475.5	440.7	465.2	477.8	451.5	419.0	404.7	402.4
60°	5719.5	4716.6	1178.7	439.5	413.8	442.9	471.5	452.1	431.5	433.2	434.4
62.5°	5854.2	4630.4	884.2	412.7	395.6	435.5	481.8	475.5	454.4	467.5	469.8
65°	5631.0	4274.2	641.0	391.6	379.6	440.7	512.6	492.6	446.4	456.1	456.1
67.5°	4883.8	3682.3	498.9	372.2	361.3	450.4	543.4	490.9	427.5	439.0	428.7
70°	3874.1	2848.3	415.5	350.5	341.9	436.1	546.3	473.2	405.3	407.6	388.2
72.5°	2570.9	1872.8	357.3	329.9	312.2	392.1	522.9	450.4	383.6	370.5	351.0
75°	1259.8	933.8	311.7	304.2	273.4	341.3	490.9	428.7	360.2	339.6	328.8
77.5°	488.0	397.3	266.0	271.7	238.0	300.8	448.7	397.9	329.4	301.4	292.8
80°	236.9	225.5	218.0	226.6	195.8	256.3	409.8	371.0	300.8	270.0	257.4
82.5°	147.3	139.3	167.2	176.4	150.7	234.0	388.7	348.2	264.9	223.8	213.5
85°	74.8	79.9	111.9	120.4	107.9	186.1	320.2	261.4	191.2	158.7	159.8
87.5°	28.5	38.2	58.8	63.4	57.7	98.2	176.4	152.4	122.7	83.3	77.1
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)