

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: P522683

Luminaire Tested: **GALN-SA2D-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522683  
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-SA2D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 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: 11444 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

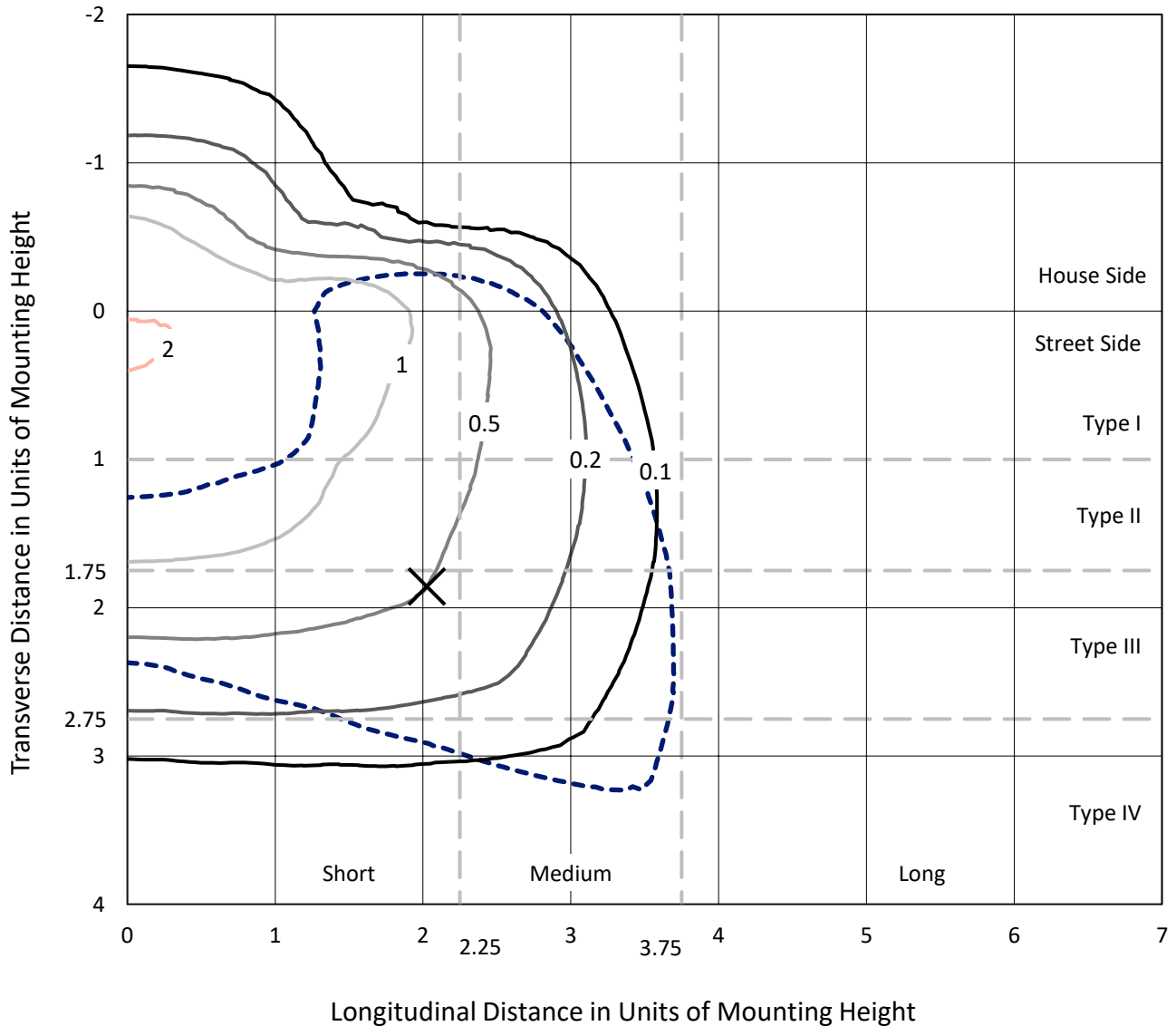
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P522683  
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### Iso-Footcandle Lines of Horizontal Illumination

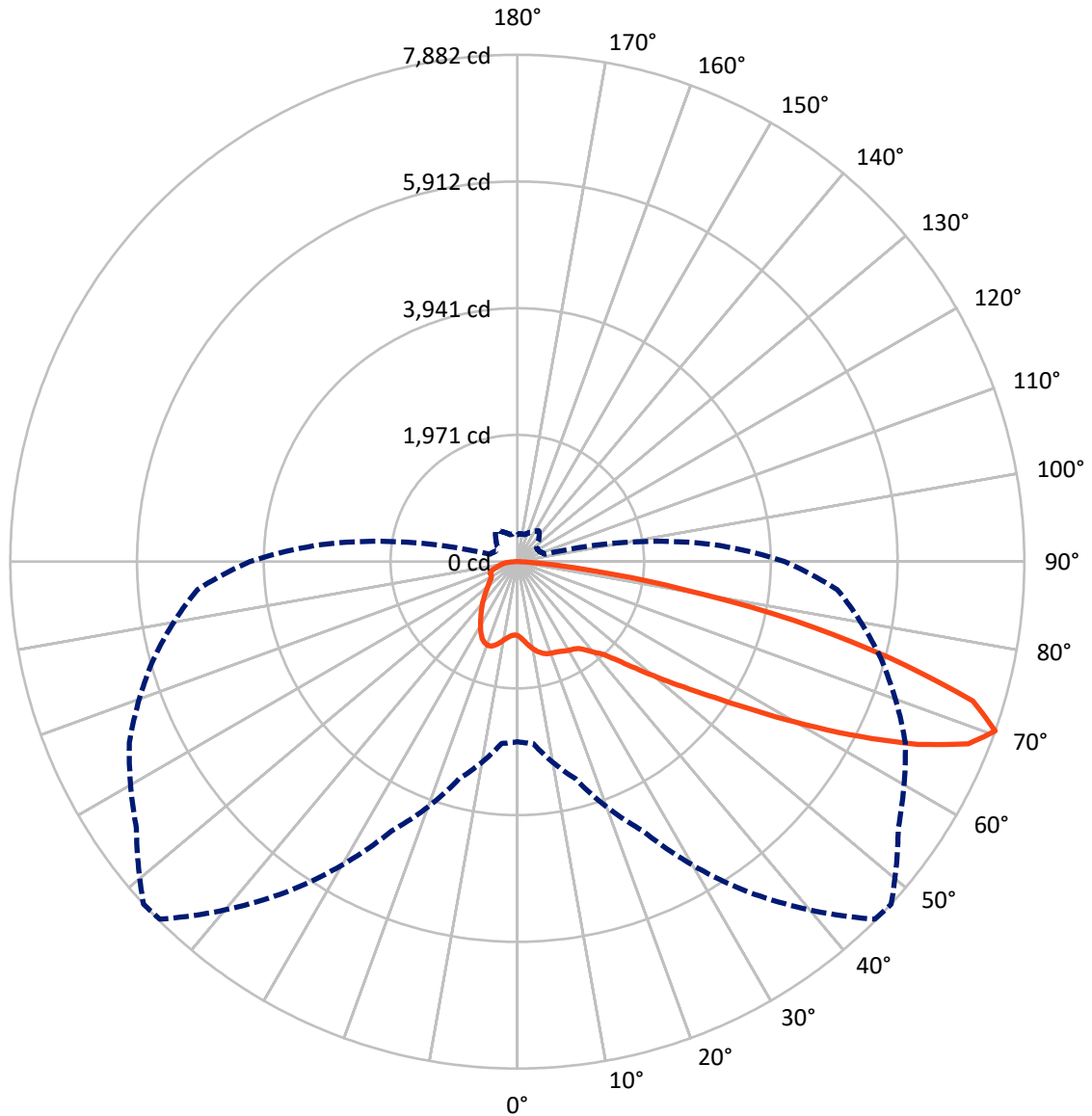
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P522683  
CATALOG NUMBER: GALN-SA2D-827-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P522683

CATALOG NUMBER: GALN-SA2D-827-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2591.1	0.0	2591.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8852.8	0.0	8852.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11444.0	0.0	11444.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	1.0
10°-20°	395.9	3.5
20°-30°	658.4	5.8
30°-40°	933.1	8.2
40°-50°	1377.5	12.0
50°-60°	2385.9	20.8
60°-70°	3370.1	29.4
70°-80°	1937.3	16.9
80°-90°	267.3	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°	11444.0	100.0
0°-180°	11444.0	100.0



REPORT NUMBER: P522683

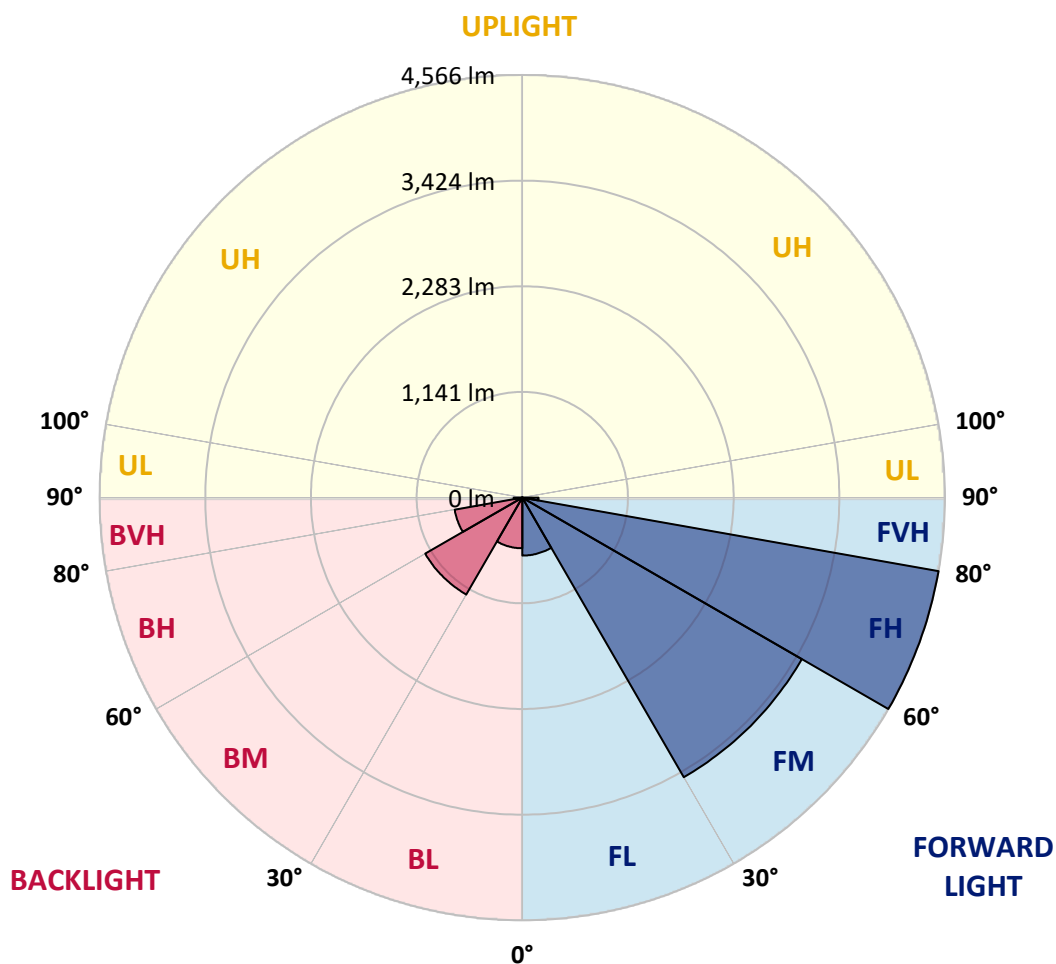
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.8	5.5			
FM	(30°-60°)	3486.8	30.5			
FH	(60°-80°)	4565.7	39.9			G2/5000
FVH	(80°-90°)	174.6	1.5			G2/225
BL	(0°-30°)	546.9	4.8	B2/1000		
BM	(30°-60°)	1209.8	10.6	B2/2500		
BH	(60°-80°)	741.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	92.7	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°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1222.9	1218.7	1218.0	1208.9	1204.0	1194.8	1191.1	1182.5	1172.1	1161.7	1151.9
5°	1319.1	1319.1	1314.8	1301.9	1281.7	1260.9	1251.7	1235.2	1205.8	1181.9	1161.7
7.5°	1417.7	1418.9	1410.3	1391.3	1362.6	1328.9	1320.3	1295.8	1254.2	1219.3	1189.3
10°	1502.8	1502.8	1491.2	1465.4	1429.3	1392.6	1384.0	1356.4	1309.9	1266.4	1227.2
12.5°	1567.7	1567.7	1552.4	1518.7	1479.5	1446.5	1436.7	1410.3	1366.9	1318.5	1268.9
15°	1610.0	1606.9	1589.8	1551.8	1513.8	1485.0	1478.3	1456.3	1416.5	1367.5	1311.7
17.5°	1611.8	1610.6	1594.0	1562.2	1529.1	1509.5	1505.2	1490.6	1459.3	1412.8	1354.0
20°	1576.3	1578.7	1567.7	1545.1	1529.1	1520.6	1518.7	1513.8	1491.8	1448.3	1389.5
22.5°	1538.3	1542.6	1532.2	1519.9	1518.7	1527.3	1528.5	1529.7	1515.7	1473.4	1419.5
25°	1529.1	1532.2	1521.8	1510.8	1517.5	1540.2	1545.1	1550.0	1538.9	1503.4	1455.0
27.5°	1575.7	1573.2	1553.0	1529.1	1533.4	1564.0	1570.8	1576.3	1570.8	1540.2	1499.1
30°	1707.3	1699.4	1659.0	1589.1	1567.1	1588.5	1595.3	1610.6	1610.6	1587.9	1546.9
32.5°	1927.8	1912.5	1838.4	1701.2	1624.7	1611.8	1618.5	1643.6	1656.5	1638.8	1594.0
35°	2195.4	2179.5	2073.5	1889.2	1730.0	1658.3	1656.5	1684.7	1719.0	1679.2	1621.0
37.5°	2464.2	2447.7	2320.3	2113.4	1883.7	1756.3	1745.3	1755.1	1769.8	1696.9	1658.3
40°	2733.1	2713.5	2602.0	2363.8	2071.7	1886.2	1857.4	1813.3	1807.2	1755.1	1730.6
42.5°	2999.5	2981.7	2925.4	2644.9	2297.1	2012.9	1968.8	1892.9	1916.2	1884.9	1863.5
45°	3268.3	3269.5	3209.5	2960.3	2569.0	2246.9	2187.4	2068.6	2123.8	2112.1	2124.4
47.5°	3506.5	3503.5	3482.0	3266.5	2906.4	2548.1	2471.6	2333.8	2428.1	2471.0	2564.7
50°	3737.4	3735.6	3736.8	3613.7	3298.3	2906.4	2821.9	2677.4	2889.9	3038.7	3206.5
52.5°	4068.1	4078.5	4004.4	3971.9	3774.8	3329.6	3236.5	3087.0	3435.5	3670.0	3997.7
55°	4400.0	4391.4	4333.3	4366.9	4273.2	3830.5	3733.1	3614.3	4043.0	4299.6	4791.9
57.5°	4595.4	4598.4	4657.8	4822.6	4888.7	4455.1	4366.9	4275.1	4725.8	4907.7	5498.6
60°	4771.1	4785.2	4956.1	5267.1	5446.6	5222.4	5144.1	5054.7	5352.3	5424.5	6112.2
62.5°	4826.2	4869.7	5167.9	5633.4	5990.4	6088.4	5991.0	5793.8	5948.7	5920.6	6528.1
65°	4551.3	4610.7	5145.3	5770.5	6476.0	6910.2	6848.3	6482.1	6457.0	6287.4	6596.0
67.5°	3827.4	3886.8	4573.3	5482.7	6676.9	7621.8	7559.9	6984.3	6765.7	6321.7	6081.6
70°	2800.5	2837.8	3494.3	4616.2	6273.3	7860.6	7882.0	7229.2	6655.4	5855.7	4993.4
72.5°	1613.6	1696.3	2156.2	3247.5	5125.1	7256.8	7405.6	6719.7	5958.5	4885.0	3491.2
75°	693.8	695.7	997.0	1791.2	3471.0	5833.0	5976.9	5570.3	4679.3	3377.9	1864.1
77.5°	330.1	336.2	438.5	799.8	1910.7	4030.1	4418.4	3935.2	2992.7	1622.8	704.2
80°	214.3	218.6	268.2	396.8	937.0	2336.9	2607.5	2270.1	1320.3	579.9	303.7
82.5°	129.8	131.1	179.4	242.5	515.6	1058.2	1247.4	985.3	563.4	347.2	178.8
85°	79.0	79.6	109.0	150.0	312.9	365.6	375.4	372.3	330.7	227.2	95.5
87.5°	38.0	39.2	56.3	71.0	123.1	113.3	107.2	124.3	156.2	122.5	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°	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1147.6	1145.8	1141.5	1139.7	1138.4	1139.0	1138.4	1138.4	1139.0	1139.0	1139.0
5°	1153.1	1150.1	1143.3	1143.3	1147.0	1155.6	1163.5	1169.7	1176.4	1175.8	1175.8
7.5°	1177.0	1171.5	1163.5	1166.0	1175.2	1188.6	1202.7	1216.2	1229.7	1230.9	1230.3
10°	1211.9	1206.4	1197.8	1200.9	1215.6	1235.8	1253.6	1273.2	1287.9	1292.1	1290.9
12.5°	1251.7	1240.7	1233.3	1241.9	1265.2	1292.1	1309.3	1324.0	1334.4	1340.5	1338.1
15°	1292.1	1281.7	1273.2	1290.9	1319.1	1344.2	1352.8	1355.2	1357.1	1363.2	1362.0
17.5°	1331.3	1317.2	1314.2	1337.5	1364.4	1375.4	1370.5	1360.1	1352.2	1357.1	1356.4
20°	1366.2	1355.2	1354.0	1377.3	1387.7	1377.3	1356.4	1338.1	1324.0	1325.2	1324.6
22.5°	1399.3	1390.7	1392.0	1401.8	1385.2	1349.7	1315.4	1290.3	1275.0	1278.1	1279.9
25°	1436.0	1427.5	1430.5	1414.6	1360.1	1298.3	1248.7	1227.2	1221.1	1227.2	1231.5
27.5°	1483.8	1478.3	1476.5	1415.2	1315.4	1222.3	1166.0	1158.0	1163.5	1177.0	1183.7
30°	1535.3	1535.3	1525.5	1404.8	1254.2	1131.1	1082.1	1083.3	1102.3	1121.3	1128.0
32.5°	1584.9	1595.3	1564.7	1376.6	1175.2	1042.3	1004.9	1006.2	1022.7	1046.0	1052.1
35°	1625.9	1655.9	1598.3	1325.2	1082.1	967.6	939.4	922.9	923.5	941.2	946.1
37.5°	1682.2	1738.0	1617.9	1248.7	982.9	903.9	872.0	843.3	824.3	816.9	816.9
40°	1780.2	1862.3	1622.8	1135.4	889.2	843.3	797.9	763.6	726.9	693.8	687.7
42.5°	1946.2	2049.7	1613.0	1004.9	804.7	776.5	732.4	690.2	639.3	592.8	589.1
45°	2240.1	2293.4	1586.7	869.6	729.4	712.2	669.3	623.4	569.5	527.9	524.8
47.5°	2711.0	2635.7	1551.8	749.6	660.8	655.9	622.8	569.5	515.6	486.8	483.8
50°	3398.8	3174.6	1546.9	662.6	605.7	608.1	581.2	532.2	485.0	461.1	457.5
52.5°	4226.7	3825.6	1579.3	601.4	557.3	566.5	553.0	507.7	466.0	445.8	442.1
55°	5030.2	4411.0	1598.9	553.6	512.0	529.1	530.9	493.0	455.0	434.8	432.3
57.5°	5682.3	4852.0	1512.0	510.1	472.8	499.1	512.6	484.4	449.5	434.2	431.7
60°	6136.1	5060.2	1264.6	471.5	444.0	475.2	505.8	485.0	463.0	464.8	466.0
62.5°	6280.7	4967.7	948.6	442.8	424.4	467.3	516.9	510.1	487.5	501.5	504.0
65°	6041.2	4585.6	687.7	420.1	407.2	472.8	549.9	528.5	478.9	489.3	489.3
67.5°	5239.6	3950.5	535.2	399.3	387.6	483.2	583.0	526.7	458.7	470.9	459.9
70°	4156.3	3055.8	445.8	376.0	366.8	467.9	586.1	507.7	434.8	437.2	416.4
72.5°	2758.2	2009.2	383.4	354.0	335.0	420.7	560.9	483.2	411.5	397.4	376.6
75°	1351.5	1001.9	334.4	326.4	293.3	366.2	526.7	459.9	386.4	364.4	352.7
77.5°	523.6	426.2	285.4	291.5	255.4	322.7	481.3	426.8	353.3	323.3	314.2
80°	254.1	241.9	233.9	243.1	210.0	275.0	439.7	398.1	322.7	289.7	276.2
82.5°	158.0	149.4	179.4	189.2	161.7	251.1	417.0	373.6	284.1	240.1	229.0
85°	80.2	85.7	120.0	129.2	115.7	199.6	343.5	280.5	205.1	170.2	171.5
87.5°	30.6	41.0	63.1	68.0	61.9	105.3	189.2	163.5	131.7	89.4	82.7
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)