

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: P526672

Luminaire Tested: **GALN-SA1C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526672  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4432 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

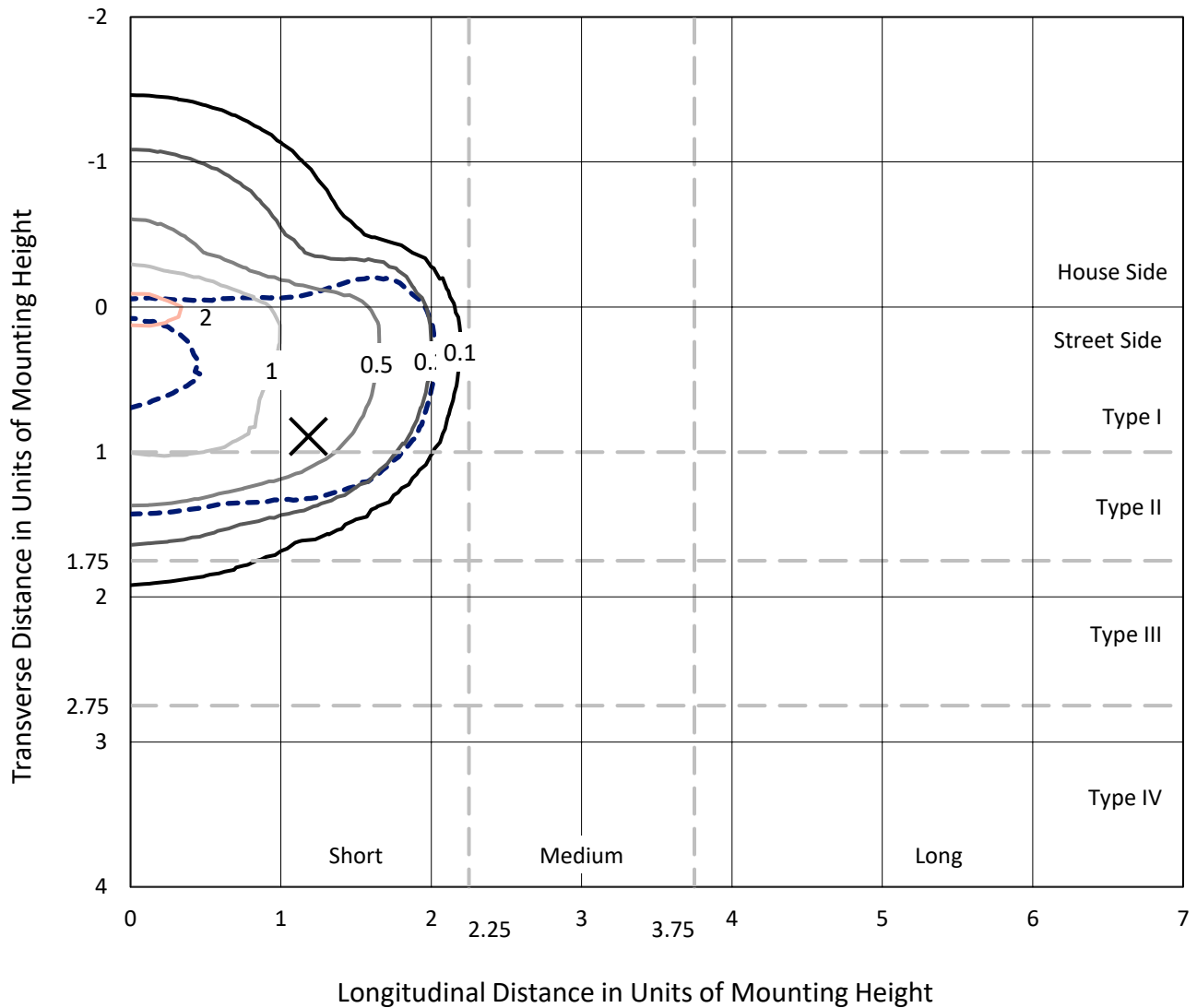
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

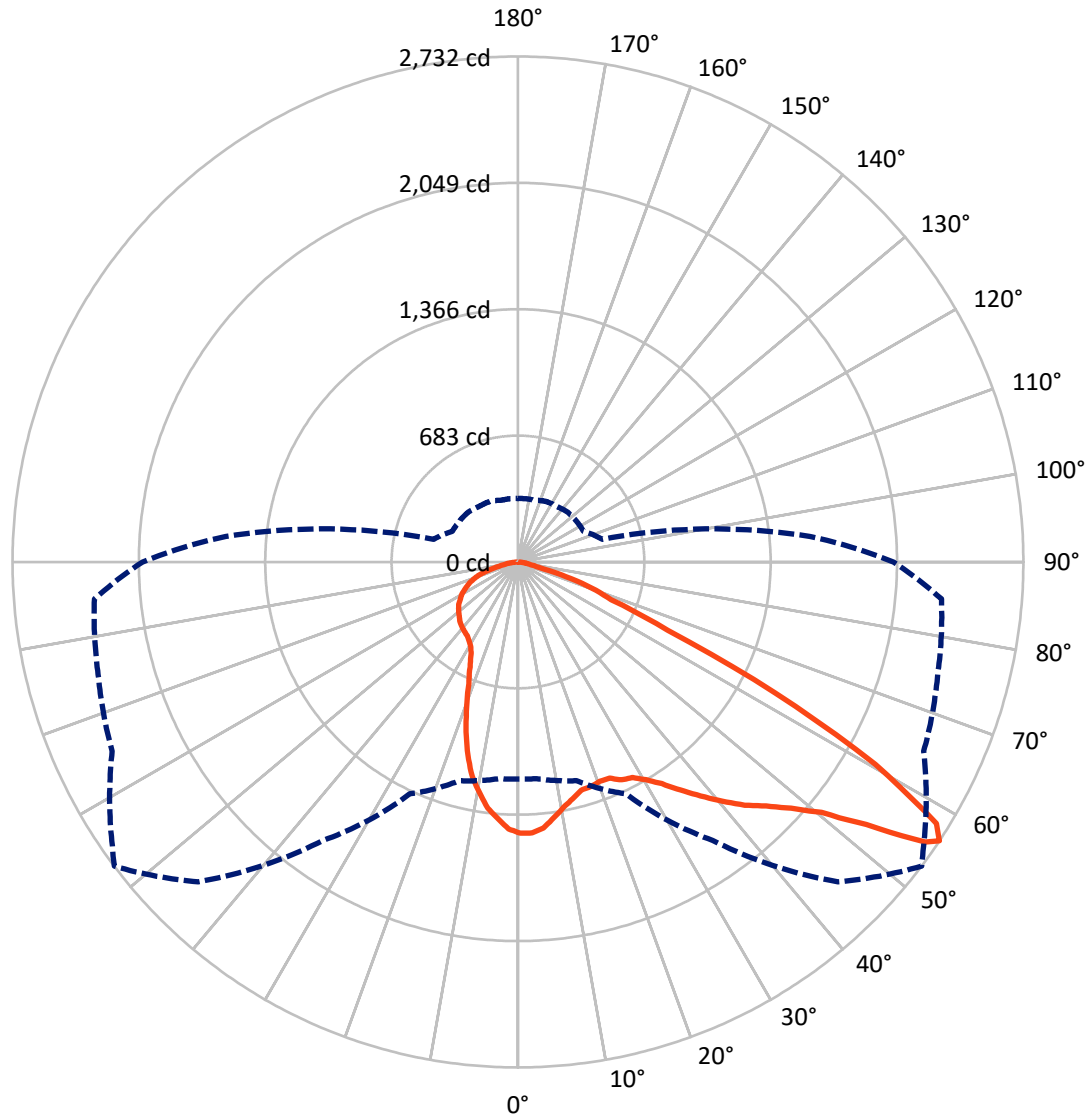
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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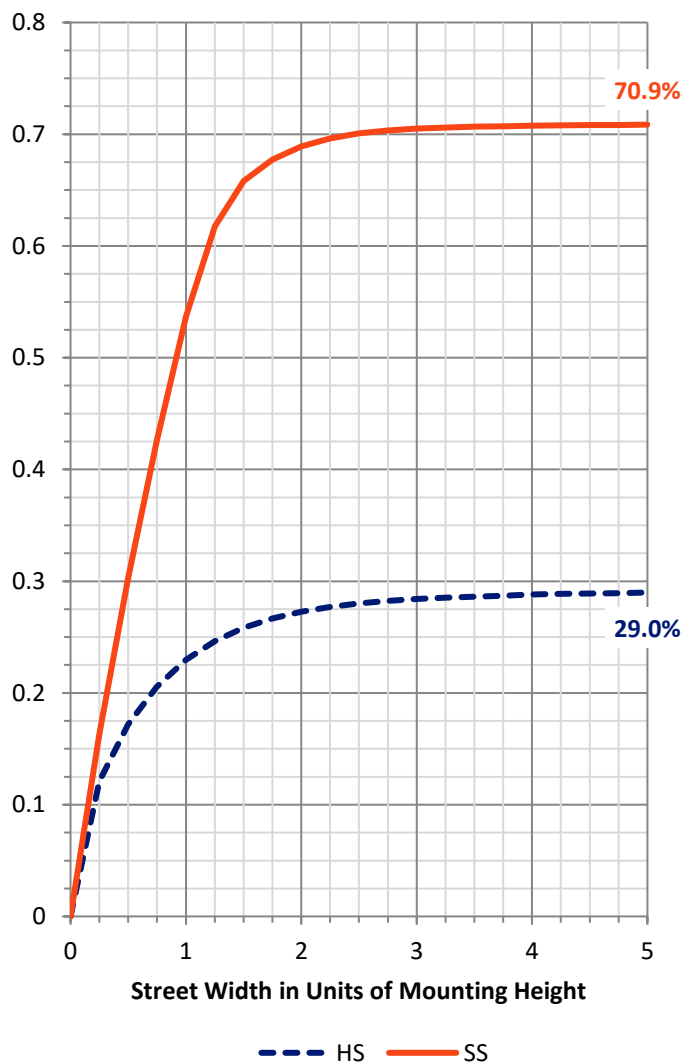
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1293.3	0.0	1293.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	3138.6	0.0	3138.6
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	4432.0	0.0	4432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	2.9
10°-20°	324.2	7.3
20°-30°	478.1	10.8
30°-40°	683.1	15.4
40°-50°	940.1	21.2
50°-60°	1111.0	25.1
60°-70°	592.1	13.4
70°-80°	150.2	3.4
80°-90°	23.4	0.5
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°	4432.0	100.0
0°-180°	4432.0	100.0

**Coefficient of Utilization**



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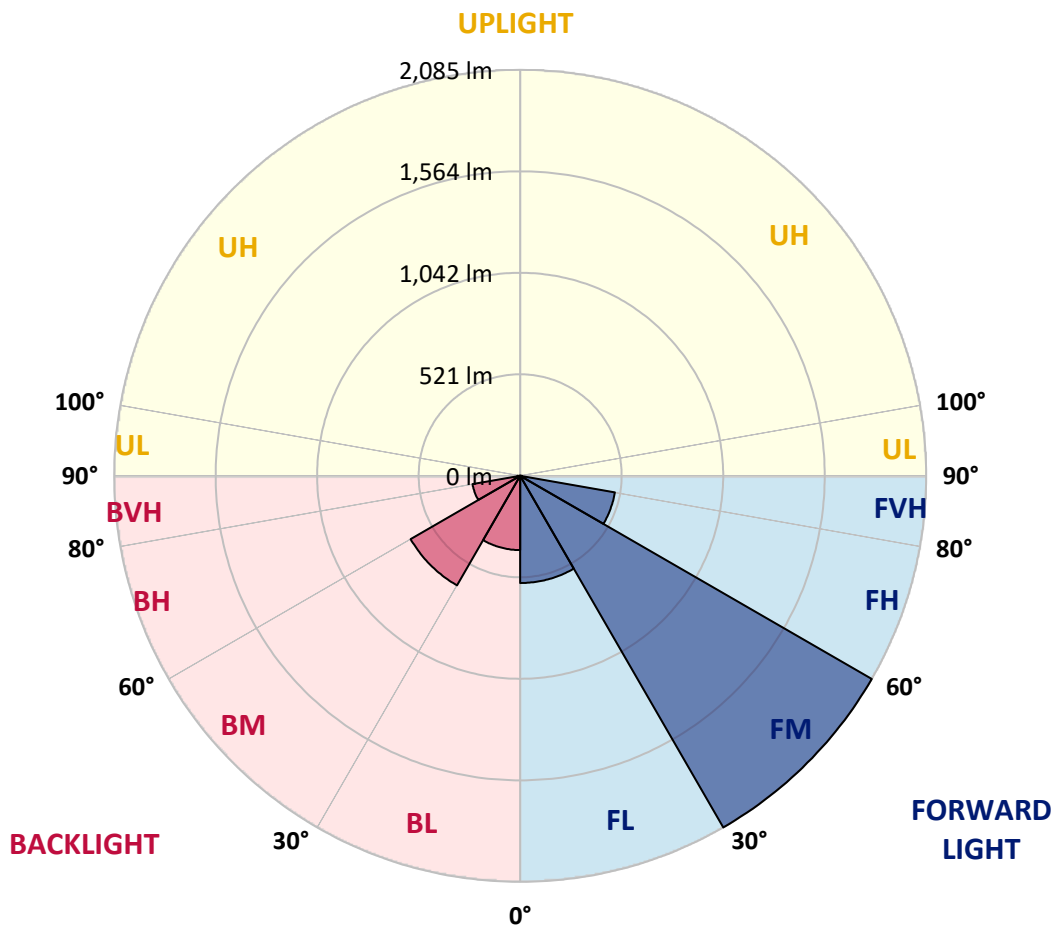
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.6	12.4			
FM (30°-60°)	2084.7	47.0			
FH (60°-80°)	493.9	11.1			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	381.5	8.6	B1/500		
BM (30°-60°)	649.5	14.7	B1/1000		
BH (60°-80°)	248.4	5.6	B1/500		G1/500
BVH (80°-90°)	14.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3
2.5°	1448.1	1435.6	1443.0	1440.1	1463.4	1470.3	1466.8	1469.7	1482.8	1476.5	1463.4
5°	1353.1	1370.8	1374.2	1382.7	1396.3	1423.1	1444.1	1449.8	1456.0	1485.0	1482.2
7.5°	1266.7	1278.7	1272.4	1297.4	1327.0	1370.2	1395.8	1400.3	1457.8	1473.7	1485.6
10°	1212.1	1200.2	1228.6	1235.5	1269.0	1318.5	1349.2	1367.9	1420.2	1483.3	1490.7
12.5°	1161.5	1157.6	1174.6	1193.9	1231.5	1282.6	1313.9	1321.3	1402.0	1468.6	1503.2
15°	1124.0	1119.5	1136.5	1150.7	1194.5	1240.0	1279.8	1300.8	1382.1	1460.0	1492.4
17.5°	1094.5	1093.9	1103.5	1129.1	1174.0	1212.1	1276.4	1277.5	1371.9	1473.1	1501.5
20°	1092.7	1092.2	1093.9	1122.3	1163.2	1209.9	1265.6	1275.8	1371.9	1464.0	1502.1
22.5°	1107.0	1097.9	1108.1	1126.3	1155.9	1213.8	1269.6	1292.3	1404.9	1508.9	1527.7
25°	1129.7	1132.0	1137.7	1143.9	1161.0	1222.9	1304.8	1323.6	1443.5	1547.6	1562.9
27.5°	1171.2	1170.1	1172.3	1175.8	1190.5	1231.5	1319.0	1367.4	1524.3	1616.4	1601.0
30°	1232.0	1228.1	1237.2	1249.1	1235.5	1258.8	1366.2	1402.6	1599.3	1685.7	1643.7
32.5°	1287.2	1302.0	1319.0	1324.1	1307.7	1312.2	1428.8	1465.7	1661.9	1771.0	1696.0
35°	1356.0	1367.9	1390.7	1406.6	1403.7	1390.1	1514.0	1562.9	1752.3	1833.6	1751.1
37.5°	1423.1	1437.3	1474.8	1522.0	1495.8	1489.6	1605.0	1645.4	1780.1	1867.1	1791.5
40°	1531.1	1530.5	1595.3	1619.8	1643.1	1632.3	1699.4	1713.0	1794.9	1859.7	1792.6
42.5°	1657.9	1649.9	1715.9	1754.0	1784.1	1785.2	1797.7	1793.2	1801.7	1822.2	1780.7
45°	1778.4	1795.5	1862.0	1930.2	1960.3	1963.8	1880.8	1872.2	1813.7	1811.4	1757.9
47.5°	1925.7	1929.6	1984.2	2074.1	2144.0	2120.1	1988.2	1969.4	1866.0	1883.6	1796.0
50°	1934.2	1963.8	2012.7	2118.4	2333.3	2327.1	2127.5	2092.2	1950.1	1985.9	1902.4
52.5°	1755.7	1748.8	1806.8	1979.7	2319.1	2532.9	2358.3	2274.2	2130.9	2103.6	2074.6
55°	1337.8	1353.7	1404.9	1579.4	2013.8	2535.7	2672.7	2603.9	2324.2	2277.6	2244.1
56°	1173.5	1175.8	1224.1	1383.3	1837.5	2445.3	2732.4	2676.7	2420.3	2349.2	2298.1
57.5°	972.8	959.7	984.7	1071.7	1551.0	2254.3	2667.0	2721.6	2532.9	2426.6	2355.5
60°	765.8	763.0	752.8	768.7	980.2	1698.2	2220.2	2343.0	2521.5	2353.8	2256.0
62.5°	625.4	611.2	631.7	654.4	681.1	1053.5	1560.1	1632.3	2001.9	1879.0	1694.8
65°	485.0	478.1	503.7	577.6	593.6	669.2	888.6	944.4	1182.0	1161.0	1022.2
67.5°	333.7	334.9	357.0	469.6	550.4	543.5	544.1	573.1	616.9	458.2	399.1
70°	211.5	210.9	222.9	302.5	442.9	447.4	424.7	416.2	394.6	238.8	253.0
72.5°	135.9	131.9	138.2	167.2	229.1	264.9	272.9	278.0	228.6	187.6	203.5
75°	76.8	72.8	70.5	77.9	90.4	104.6	114.8	118.3	132.5	142.1	150.7
77.5°	23.3	21.0	25.6	34.1	44.9	60.3	73.3	75.6	89.3	100.6	109.2
80°	10.2	11.4	15.9	22.7	31.8	42.6	51.7	55.1	64.2	72.8	75.0
82.5°	6.3	6.8	10.8	15.4	22.2	30.1	37.0	38.1	47.2	54.0	55.7
85°	2.3	2.8	5.7	9.1	14.2	19.3	19.3	21.0	19.3	19.3	21.0
87.5°	0.0	0.0	0.6	1.1	1.1	1.7	2.3	2.3	2.8	3.4	4.0
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°	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3	1466.3
2.5°	1470.3	1467.4	1462.9	1446.4	1444.7	1439.6	1411.1	1406.6	1411.1	1397.5	1398.6
5°	1467.4	1475.9	1441.8	1425.3	1394.6	1372.5	1346.9	1333.8	1310.5	1295.7	1312.2
7.5°	1479.9	1476.5	1433.9	1398.1	1352.0	1295.7	1250.8	1225.2	1184.3	1172.9	1181.4
10°	1475.4	1457.2	1407.2	1360.0	1273.0	1223.5	1150.7	1080.2	1041.6	1021.7	1018.8
12.5°	1469.1	1464.0	1380.4	1299.1	1207.6	1103.5	1001.2	934.7	871.6	844.3	848.3
15°	1476.5	1433.3	1330.4	1227.5	1105.8	969.4	859.1	773.2	729.4	711.8	711.8
17.5°	1473.1	1418.5	1306.5	1147.3	993.2	831.8	710.7	658.9	640.8	640.8	645.9
20°	1474.8	1428.2	1258.2	1067.2	860.2	700.4	612.3	593.6	601.5	604.4	607.2
22.5°	1484.5	1396.3	1211.0	979.0	736.8	599.2	556.0	556.6	570.8	586.2	583.3
25°	1496.4	1383.8	1153.6	891.5	642.5	549.8	536.1	534.4	545.2	553.2	554.3
27.5°	1486.2	1362.2	1095.0	782.3	565.1	516.8	514.0	515.1	518.5	534.4	529.3
30°	1519.7	1368.5	1021.7	690.8	522.5	506.0	502.6	500.9	506.0	510.6	506.6
32.5°	1561.2	1346.3	967.1	602.7	501.5	498.0	491.2	488.9	491.8	487.2	489.5
35°	1579.4	1342.3	896.0	539.6	485.0	482.1	478.1	477.6	478.1	474.2	470.8
37.5°	1589.7	1361.1	814.7	510.6	474.7	477.6	468.5	467.3	457.1	459.4	461.1
40°	1607.3	1332.1	748.8	482.7	468.5	462.8	454.8	453.1	446.3	442.3	446.3
42.5°	1581.7	1323.6	684.0	470.8	459.4	453.1	447.4	437.8	435.5	432.1	429.8
45°	1561.2	1274.7	626.0	456.0	448.6	445.2	434.4	424.1	415.6	419.0	413.9
47.5°	1576.6	1257.6	568.5	443.5	433.8	429.8	419.0	411.1	402.5	398.6	397.4
50°	1638.0	1289.5	520.2	434.4	421.3	419.0	404.8	395.7	387.7	384.9	386.0
52.5°	1784.7	1376.4	487.2	415.6	409.4	399.1	391.2	379.8	374.7	365.6	371.3
55°	1970.6	1518.0	478.7	398.0	394.6	385.5	374.7	366.1	356.5	349.1	347.4
56°	2030.3	1585.7	471.9	391.2	385.5	380.4	366.1	361.0	345.7	344.0	342.8
57.5°	2078.6	1645.4	473.0	378.1	372.4	367.8	359.3	346.8	336.6	330.3	333.2
60°	1969.4	1540.2	451.4	358.2	357.0	348.5	336.6	330.9	318.4	311.0	309.3
62.5°	1464.0	1045.6	366.1	332.6	332.0	322.9	309.3	303.0	300.8	290.5	290.5
65°	843.2	655.5	316.7	311.6	307.0	297.9	284.3	279.2	273.5	270.1	267.2
67.5°	359.9	340.0	287.7	287.1	282.0	270.6	257.0	249.0	241.6	234.8	238.2
70°	261.0	264.9	259.8	257.0	250.7	236.5	224.6	214.9	203.5	199.0	202.4
72.5°	207.0	215.5	222.9	223.4	216.0	199.6	186.5	173.4	160.9	154.6	157.5
75°	156.9	162.6	170.0	171.7	160.9	149.5	137.0	123.4	113.7	106.3	107.5
77.5°	113.1	112.0	118.8	117.7	112.6	104.6	93.2	80.7	69.9	63.1	63.7
80°	77.3	79.0	83.0	82.4	76.2	71.1	62.5	52.3	44.3	38.7	37.5
82.5°	54.0	56.9	60.3	57.4	52.3	47.2	40.9	33.5	27.3	22.7	21.6
85°	19.3	22.2	25.6	27.3	29.0	27.9	23.3	18.8	13.6	11.4	10.8
87.5°	4.0	4.5	5.1	5.1	5.1	4.5	4.0	4.0	3.4	1.7	1.7
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)