

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: P648209

Luminaire Tested: **GALN-SA1B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3814 lumens  
Efficiency: N/A  
Efficacy: 86.7 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

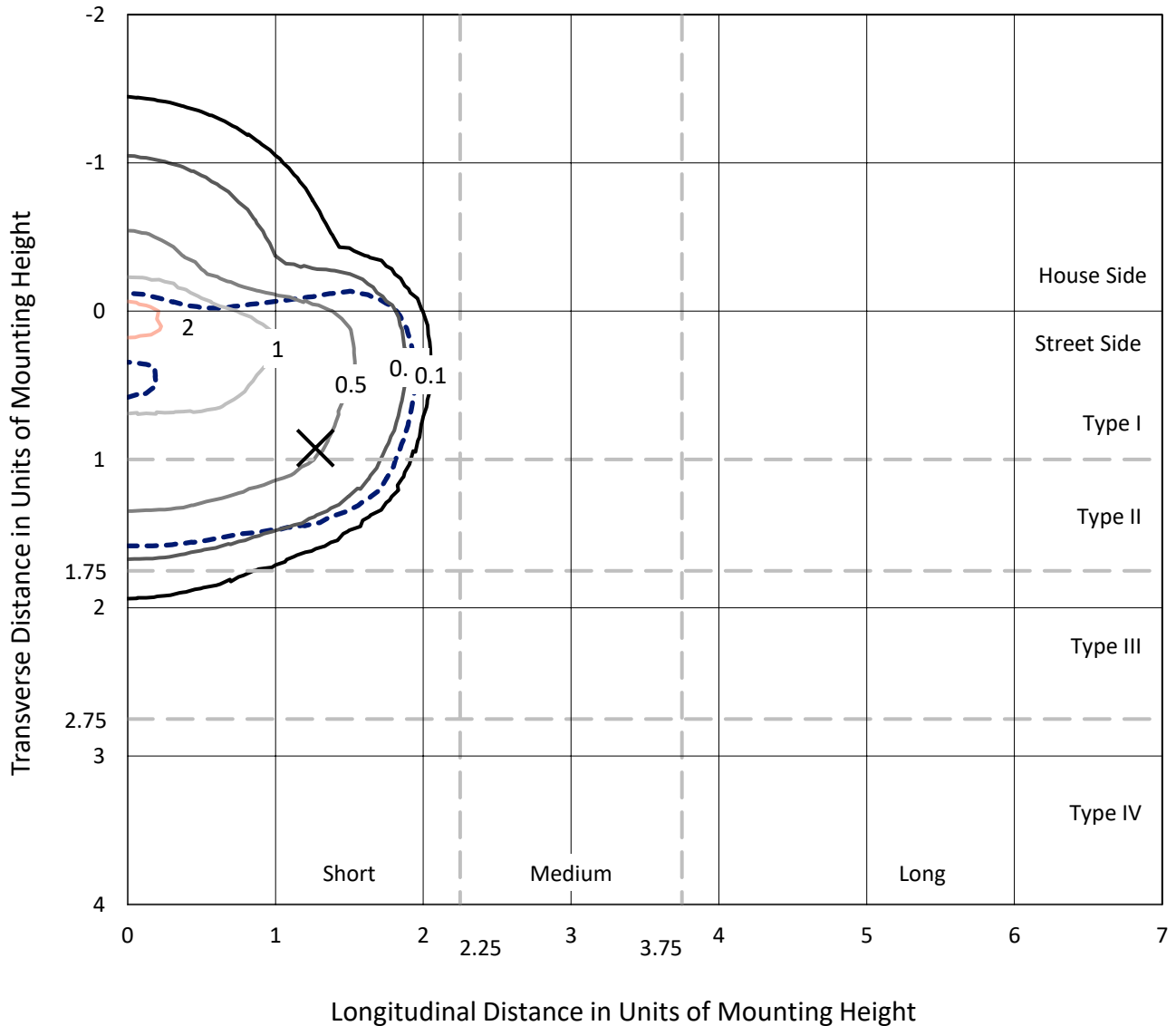
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

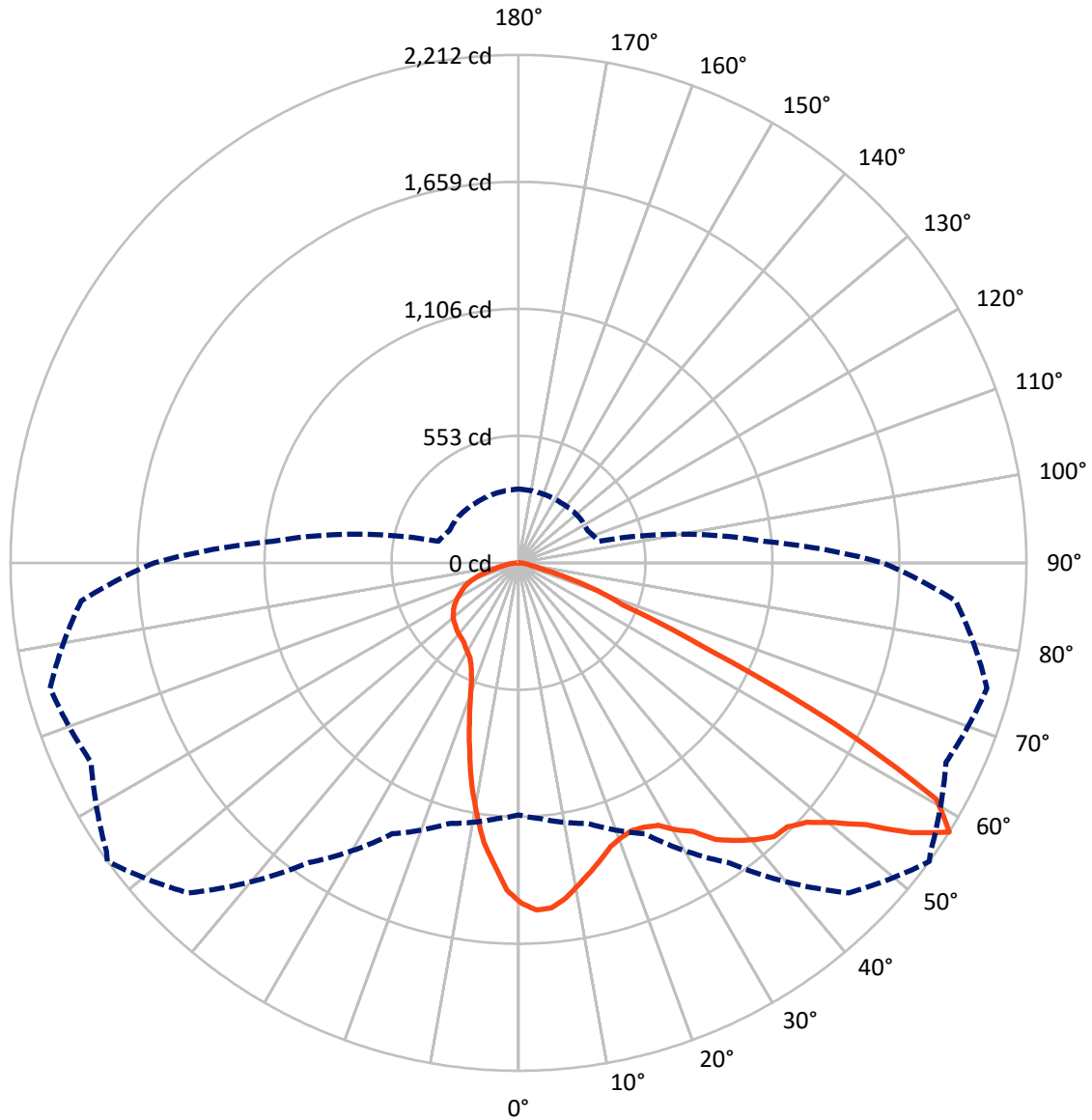
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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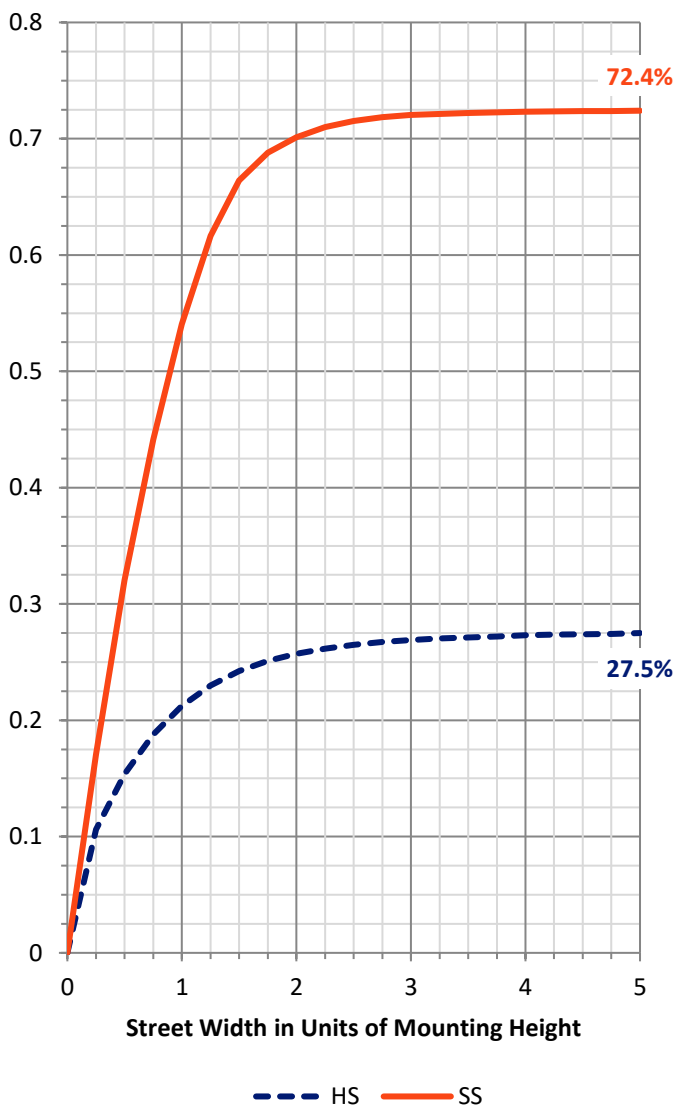
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1055.2	0.0	1055.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	2758.8	0.0	2758.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	3814.0	0.0	3814.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	3.4
10°-20°	296.0	7.8
20°-30°	415.9	10.9
30°-40°	581.4	15.2
40°-50°	787.2	20.6
50°-60°	958.8	25.1
60°-70°	499.4	13.1
70°-80°	128.0	3.4
80°-90°	19.5	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°	3814.0	100.0
0°-180°	3814.0	100.0

**Coefficient of Utilization**

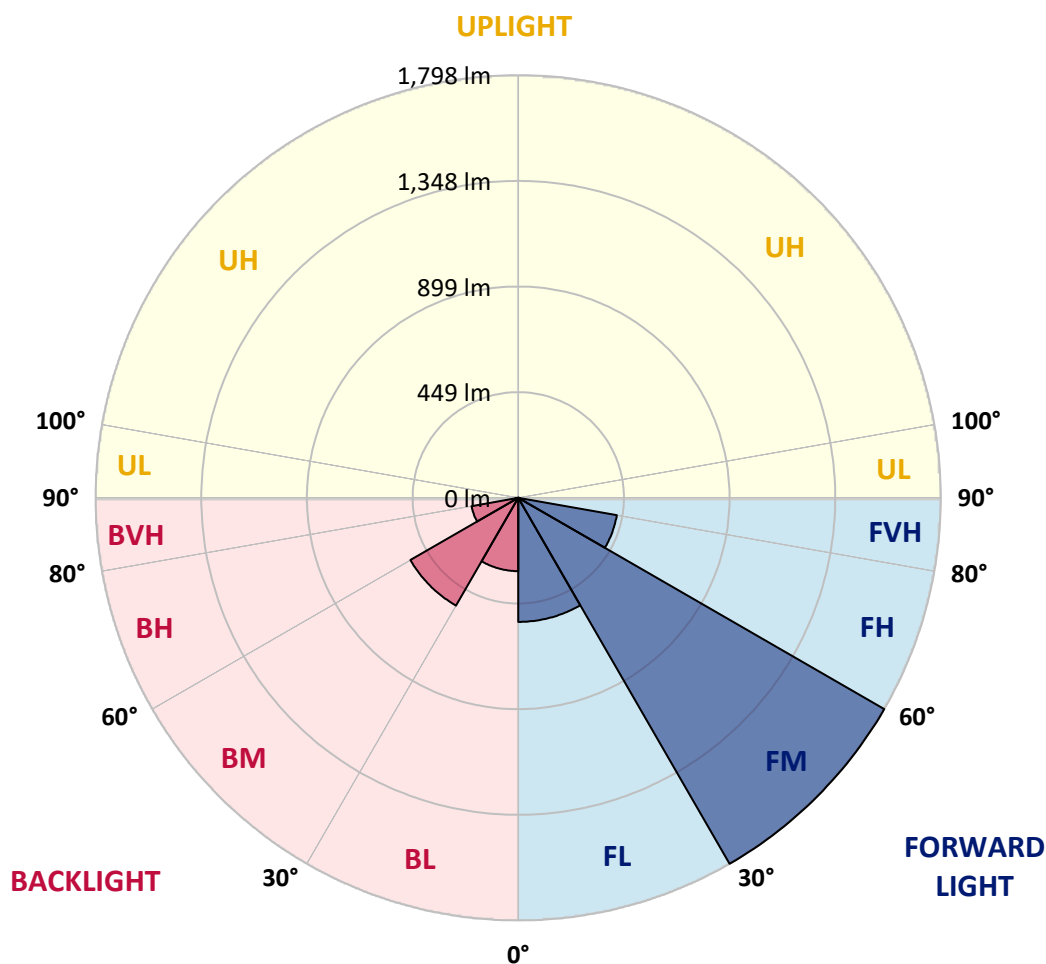


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.9	13.8			
FM (30°-60°)	1797.8	47.1			
FH (60°-80°)	425.7	11.2			G0/660
FVH (80°-90°)	7.4	0.2			G0/10
BL (0°-30°)	311.9	8.2	B1/500		
BM (30°-60°)	529.6	13.9	B1/1000		
BH (60°-80°)	201.6	5.3	B1/500		G1/500
BVH (80°-90°)	12.1	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°	54°	55°	65°	75°	85°
0°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1524.6	1518.7	1519.7	1527.6	1517.8	1513.9	1513.9	1494.7	1496.2	1482.9	1479.5
5°	1489.3	1475.6	1484.9	1496.7	1498.7	1502.6	1508.9	1504.0	1490.3	1476.1	1453.0
7.5°	1397.2	1409.4	1412.8	1421.1	1438.8	1455.0	1475.1	1461.4	1460.9	1446.7	1433.0
10°	1316.3	1308.9	1327.6	1339.8	1369.2	1396.2	1427.1	1425.6	1433.0	1416.8	1393.3
12.5°	1235.9	1230.0	1238.8	1266.7	1307.9	1347.2	1384.0	1370.2	1409.4	1406.5	1356.0
15°	1150.5	1155.0	1167.8	1193.7	1247.6	1294.7	1341.3	1341.7	1376.6	1388.3	1320.7
17.5°	1090.8	1085.9	1102.1	1140.8	1188.8	1245.2	1298.1	1308.9	1362.3	1369.2	1309.9
20°	1046.2	1053.0	1074.1	1093.7	1149.1	1217.3	1277.1	1281.0	1359.4	1378.0	1292.7
22.5°	1035.4	1031.4	1038.3	1070.2	1115.8	1189.8	1265.8	1280.5	1358.9	1375.1	1260.4
25°	1024.1	1036.8	1036.4	1068.2	1101.5	1167.8	1275.1	1291.2	1384.9	1390.3	1264.8
27.5°	1049.6	1048.1	1061.8	1064.3	1105.4	1173.6	1294.7	1307.0	1428.0	1423.7	1268.2
30°	1075.1	1067.7	1076.1	1105.0	1124.1	1207.5	1348.6	1347.6	1483.9	1481.0	1279.0
32.5°	1106.5	1103.0	1108.4	1133.9	1166.3	1252.6	1394.2	1423.1	1540.8	1559.4	1316.3
35°	1112.3	1126.6	1139.3	1173.6	1219.7	1325.6	1480.0	1504.0	1606.5	1664.8	1387.3
37.5°	1149.6	1155.0	1184.9	1245.7	1287.8	1423.1	1534.4	1549.6	1666.3	1732.5	1462.3
40°	1189.3	1195.6	1240.7	1304.5	1362.3	1486.8	1585.4	1590.3	1685.4	1784.5	1511.3
42.5°	1243.2	1249.1	1293.8	1373.6	1451.1	1541.3	1630.5	1635.9	1683.9	1844.3	1589.3
45°	1299.1	1313.3	1365.8	1456.5	1526.1	1605.0	1640.8	1662.9	1697.7	1897.7	1652.6
47.5°	1377.5	1390.8	1433.9	1522.6	1604.1	1660.9	1688.4	1709.9	1730.5	1944.3	1693.2
50°	1460.9	1463.3	1515.8	1596.2	1656.0	1724.2	1777.1	1784.5	1773.7	1998.2	1762.4
52.5°	1522.2	1530.0	1570.7	1649.2	1738.3	1822.2	1894.7	1902.6	1881.5	2018.3	1785.9
55°	1420.7	1416.3	1482.5	1586.9	1793.8	1968.3	2073.7	2079.6	1959.9	2080.5	1862.8
57.5°	1098.1	1119.2	1175.6	1301.6	1593.7	2033.0	2211.9	2190.8	2054.0	2111.9	1911.9
60°	798.1	793.2	830.9	915.2	1201.0	1752.1	2091.3	2112.9	1977.1	1903.6	1576.6
62.5°	650.0	643.2	646.1	649.0	775.1	1162.8	1548.1	1547.7	1522.6	1368.2	1063.3
65°	519.7	535.8	537.3	559.4	575.5	694.7	897.1	945.2	823.1	675.0	489.8
67.5°	391.7	385.8	405.4	483.9	514.3	501.5	489.8	495.2	352.0	253.9	239.2
70°	230.9	228.5	252.0	337.3	423.5	398.5	369.1	369.7	241.7	177.4	197.6
72.5°	126.5	126.0	130.9	171.1	240.7	250.0	221.6	228.5	144.2	143.6	154.4
75°	70.6	69.1	67.7	75.5	86.8	91.7	93.6	94.6	99.0	110.8	115.2
77.5°	26.0	25.0	25.0	28.9	36.8	46.1	58.3	59.4	70.1	80.4	84.8
80°	8.8	9.8	13.2	18.2	24.5	32.8	39.7	40.7	49.5	56.4	57.9
82.5°	5.4	5.9	8.8	12.8	17.6	23.0	29.4	29.9	36.8	41.2	43.1
85°	2.4	3.0	4.9	7.8	11.3	15.2	15.7	15.7	15.2	15.7	14.7
87.5°	0.0	0.0	1.0	1.0	1.0	1.5	2.0	1.5	2.4	3.0	3.0
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°	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5	1482.5
2.5°	1469.2	1463.8	1447.1	1432.4	1428.0	1408.5	1379.5	1382.9	1361.9	1371.7	1361.4
5°	1449.1	1431.0	1388.3	1370.2	1322.6	1301.0	1286.4	1249.6	1232.4	1229.0	1214.3
7.5°	1397.7	1386.4	1332.9	1283.9	1233.4	1190.3	1134.9	1097.1	1070.2	1062.8	1041.2
10°	1356.9	1332.0	1258.0	1183.4	1111.4	1036.4	964.3	907.9	880.5	848.6	837.8
12.5°	1316.8	1279.0	1179.0	1083.4	990.3	895.7	808.4	739.8	680.0	665.7	660.9
15°	1291.8	1226.1	1108.4	993.2	860.8	737.3	650.0	604.9	568.1	553.0	563.8
17.5°	1258.9	1182.4	1040.8	887.3	741.7	628.0	554.9	527.0	513.7	515.2	510.8
20°	1217.7	1141.2	952.0	791.2	635.3	544.7	503.0	492.7	494.6	498.1	496.6
22.5°	1188.3	1091.3	887.8	693.2	549.0	498.5	481.4	474.0	480.4	483.3	480.9
25°	1165.7	1048.6	809.9	606.4	499.1	472.6	464.7	464.2	474.0	477.9	475.5
27.5°	1145.2	1008.9	732.4	540.3	465.7	452.5	450.1	455.9	462.3	466.2	469.6
30°	1132.9	978.5	659.8	484.8	449.1	442.7	438.2	443.6	447.1	451.0	449.1
32.5°	1144.7	956.9	589.8	453.4	435.3	428.9	434.8	431.4	437.3	440.8	435.3
35°	1181.5	937.8	539.7	436.8	419.6	422.1	423.1	421.6	424.1	421.1	427.5
37.5°	1217.7	930.9	493.7	422.6	412.2	412.2	411.3	408.3	413.3	412.2	415.2
40°	1263.8	935.4	454.5	407.4	405.4	404.4	400.5	400.0	398.1	398.5	399.6
42.5°	1304.0	945.2	431.9	397.6	399.0	401.0	393.7	387.7	390.2	385.3	385.3
45°	1346.7	954.0	411.8	390.7	389.2	388.8	382.9	379.4	377.5	378.0	382.4
47.5°	1413.8	966.8	396.6	381.4	382.4	375.1	373.6	369.1	371.1	374.0	374.5
50°	1461.4	993.7	384.8	370.6	374.0	369.1	360.3	358.4	358.4	363.2	362.3
52.5°	1494.7	1031.4	373.6	358.8	360.3	356.4	353.4	349.1	346.1	353.0	356.4
55°	1596.7	1094.2	370.6	349.1	348.6	344.6	339.3	334.8	333.3	334.3	341.2
57.5°	1586.9	1074.6	361.3	331.9	330.9	325.5	320.1	318.7	318.1	319.2	321.1
60°	1288.3	793.6	322.6	312.3	310.8	309.8	304.4	298.6	295.6	298.6	296.1
62.5°	852.5	531.4	284.3	288.8	289.7	287.3	278.4	272.6	273.6	276.9	271.6
65°	418.7	312.3	257.8	269.7	270.6	263.7	255.4	248.5	245.1	248.1	245.6
67.5°	239.2	238.7	236.3	248.5	248.1	241.2	227.9	222.1	216.2	217.2	215.7
70°	203.0	206.9	211.8	219.2	218.6	210.8	195.1	190.7	182.4	181.4	178.9
72.5°	159.8	166.7	177.4	182.8	178.4	168.7	158.3	151.0	143.6	139.2	140.7
75°	118.6	128.4	134.3	137.7	130.9	125.5	117.1	108.4	99.5	95.6	94.1
77.5°	86.3	89.2	94.6	97.1	92.6	87.2	82.4	73.5	65.2	59.8	58.3
80°	60.3	62.2	66.2	66.2	66.2	63.7	57.4	48.5	43.1	38.2	37.3
82.5°	42.1	44.1	48.1	46.1	45.6	42.7	38.8	31.9	26.0	22.6	21.5
85°	14.7	16.2	19.6	23.6	25.0	24.5	22.1	17.6	13.7	11.3	10.3
87.5°	3.4	3.4	3.9	3.4	3.4	3.9	3.4	3.4	3.4	2.4	2.0
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)