

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: P652169

Luminaire Tested: **GALN-SA1B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652169
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-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4096.5 lumens
Efficiency: N/A
Efficacy: 93.1 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

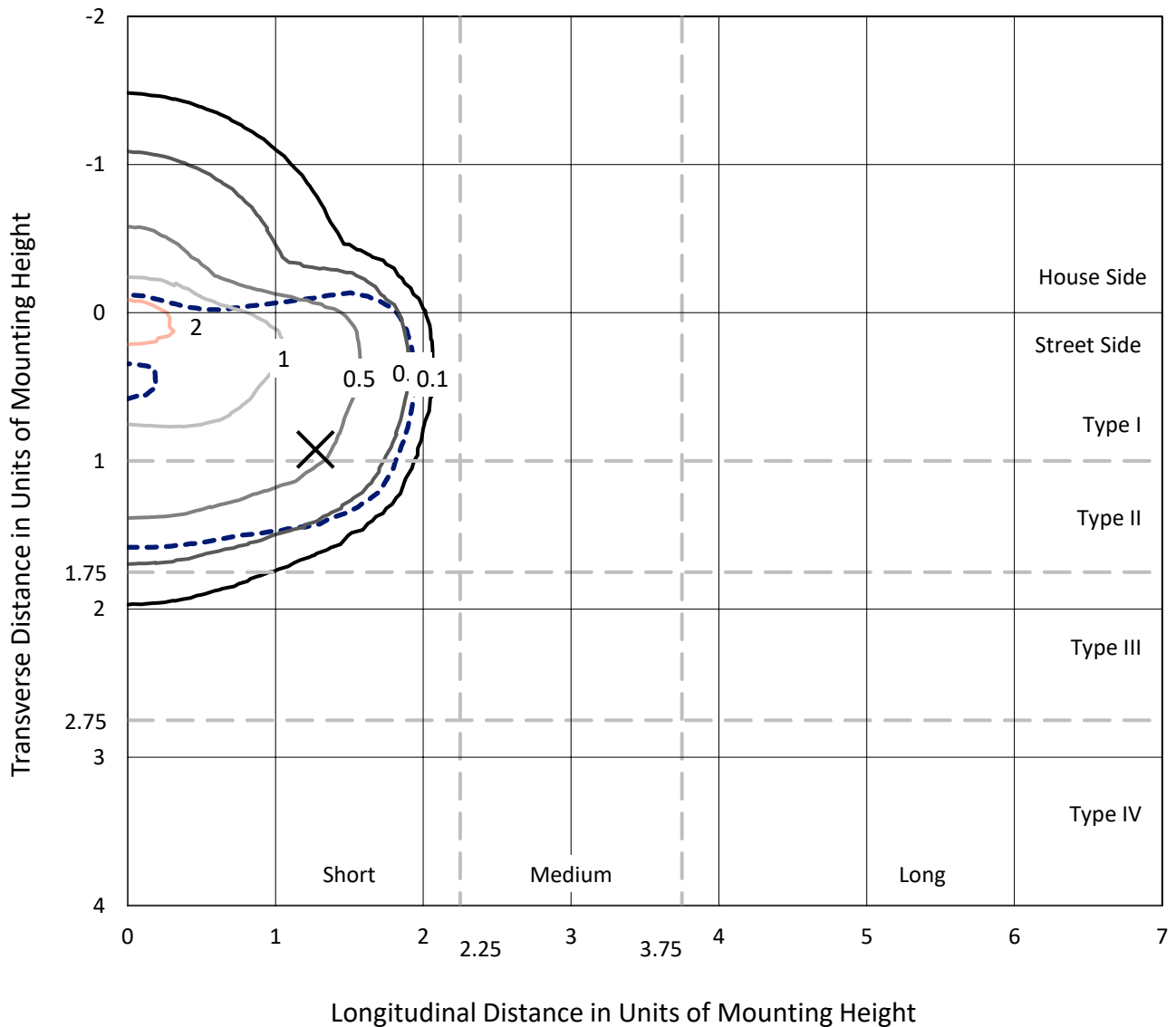
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

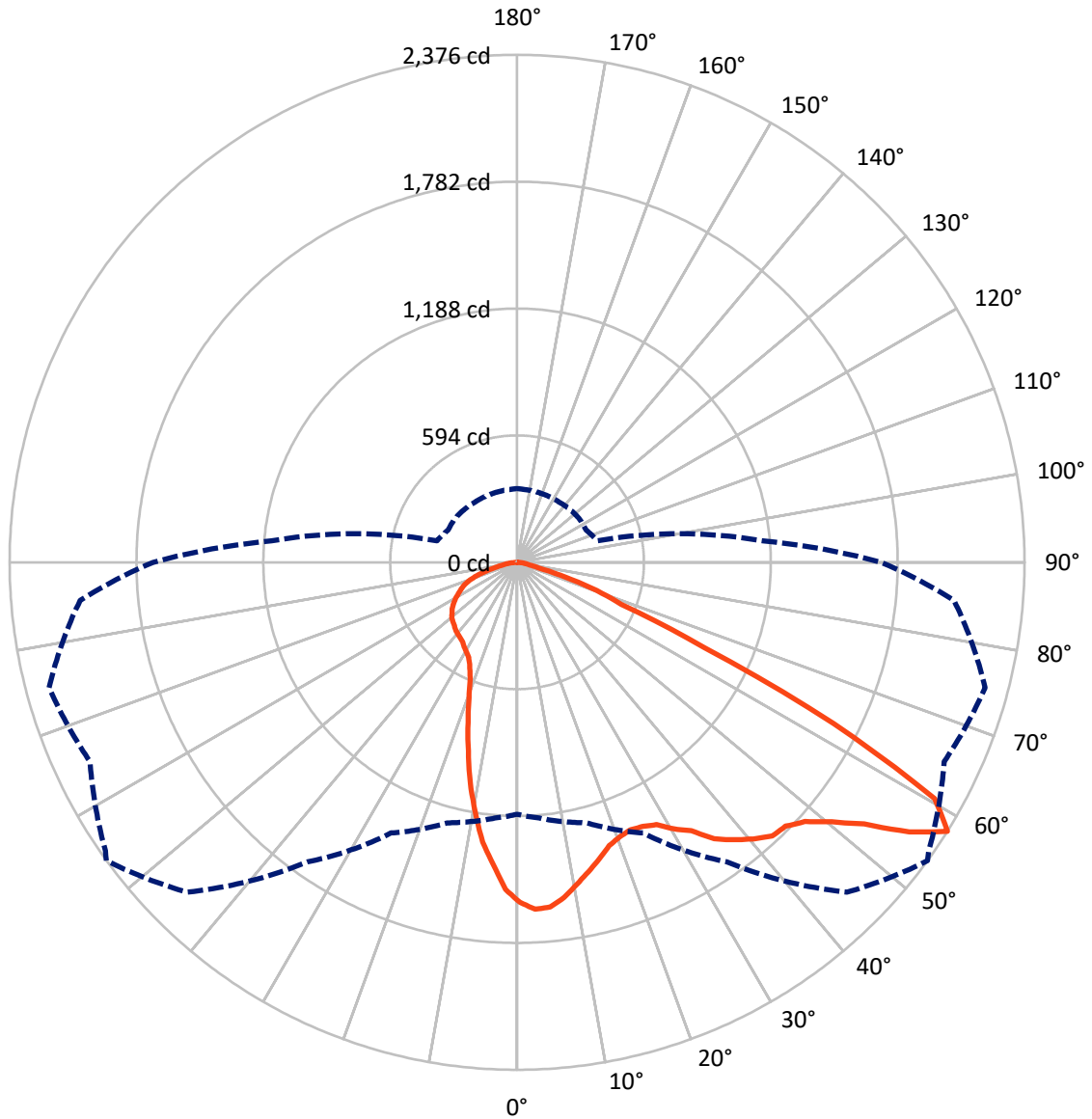
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA1B-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

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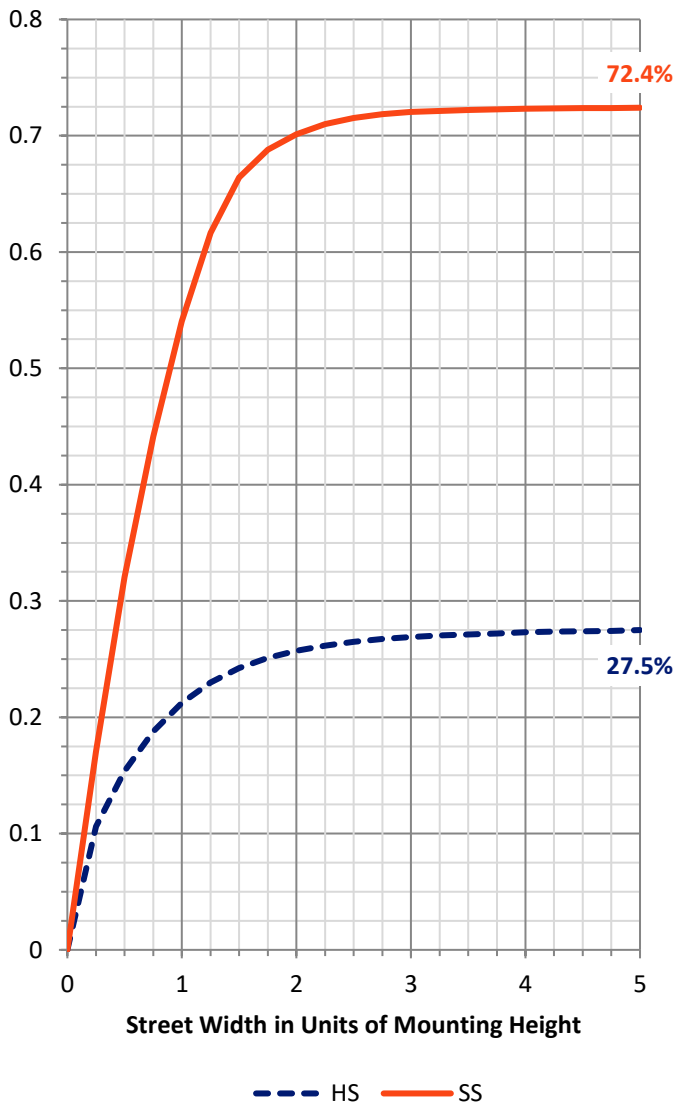
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.3	0.0	1133.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2963.2	0.0	2963.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	4096.5	0.0	4096.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	317.9	7.8
20°-30°	446.7	10.9
30°-40°	624.5	15.2
40°-50°	845.5	20.6
50°-60°	1029.8	25.1
60°-70°	536.4	13.1
70°-80°	137.4	3.4
80°-90°	21.0	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°	4096.5	100.0
0°-180°	4096.5	100.0

Coefficient of Utilization

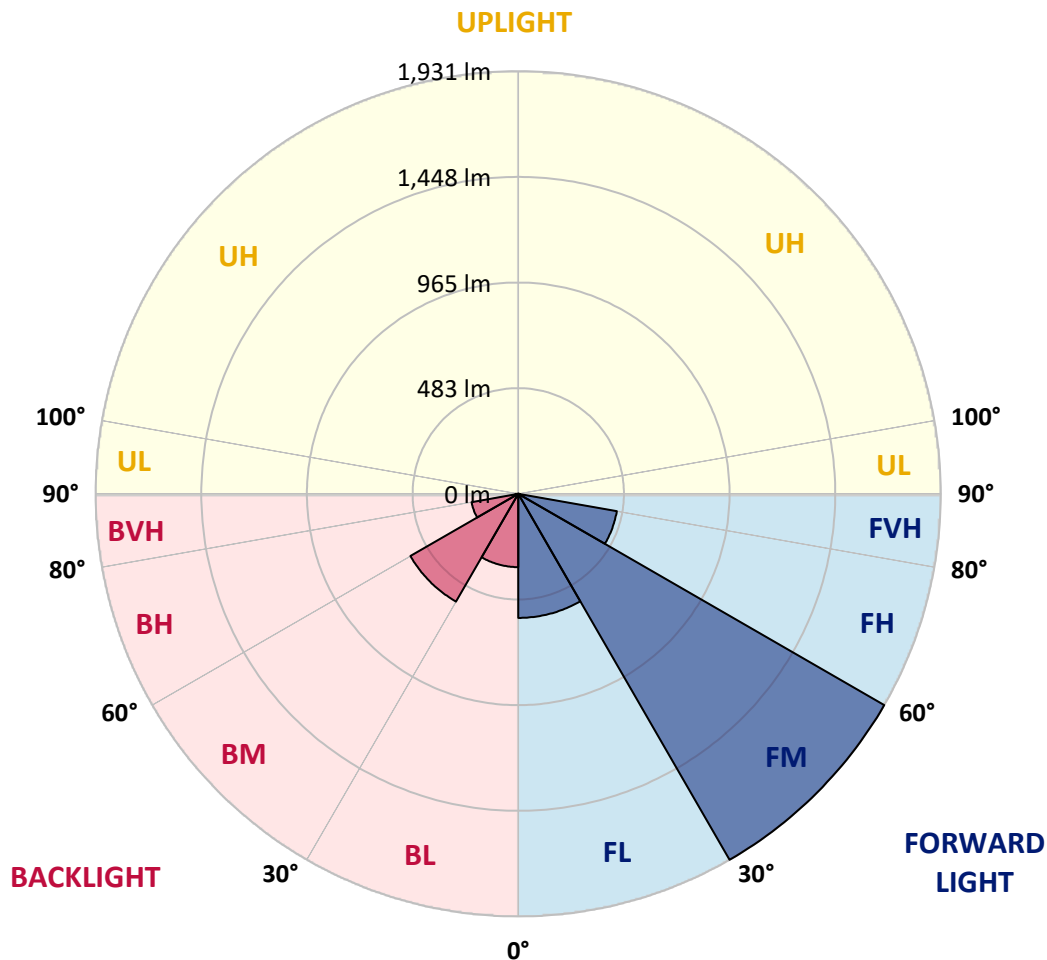


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.0	13.8			
FM (30°-60°)	1931.0	47.1			
FH (60°-80°)	457.3	11.2			G0/660
FVH (80°-90°)	7.9	0.2			G0/10
BL (0°-30°)	335.0	8.2	B1/500		
BM (30°-60°)	568.8	13.9	B1/1000		
BH (60°-80°)	216.5	5.3	B1/500		G1/500
BVH (80°-90°)	13.0	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°	54°	55°	65°	75°	85°
0°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1637.5	1631.2	1632.3	1640.7	1630.2	1626.0	1626.0	1605.5	1607.0	1592.8	1589.1
5°	1599.7	1584.9	1594.9	1607.6	1609.7	1613.9	1620.7	1615.4	1600.7	1585.5	1560.6
7.5°	1500.7	1513.8	1517.5	1526.4	1545.4	1562.7	1584.4	1569.6	1569.1	1553.8	1539.1
10°	1413.8	1405.9	1425.9	1439.0	1470.7	1499.6	1532.8	1531.2	1539.1	1521.7	1496.5
12.5°	1327.4	1321.1	1330.5	1360.6	1404.8	1446.9	1486.5	1471.7	1513.8	1510.7	1456.4
15°	1235.8	1240.6	1254.3	1282.1	1340.0	1390.6	1440.6	1441.1	1478.6	1491.2	1418.5
17.5°	1171.6	1166.3	1183.7	1225.3	1276.9	1337.4	1394.3	1405.9	1463.3	1470.7	1406.9
20°	1123.7	1131.0	1153.7	1174.7	1234.3	1307.4	1371.7	1375.9	1460.1	1480.1	1388.5
22.5°	1112.1	1107.8	1115.3	1149.5	1198.4	1277.9	1359.6	1375.4	1459.6	1477.0	1353.8
25°	1099.9	1113.7	1113.1	1147.4	1183.1	1254.3	1369.6	1386.9	1487.5	1493.3	1358.5
27.5°	1127.4	1125.8	1140.5	1143.1	1187.3	1260.6	1390.6	1403.8	1533.8	1529.1	1362.2
30°	1154.7	1146.8	1155.8	1186.8	1207.3	1296.9	1448.5	1447.4	1593.9	1590.7	1373.8
32.5°	1188.4	1184.7	1190.5	1217.9	1252.7	1345.3	1497.5	1528.5	1654.9	1674.9	1413.8
35°	1194.7	1210.0	1223.7	1260.6	1310.0	1423.8	1589.7	1615.4	1725.5	1788.1	1490.1
37.5°	1234.8	1240.6	1272.7	1337.9	1383.2	1528.5	1648.1	1664.4	1789.7	1860.8	1570.7
40°	1277.4	1284.2	1332.6	1401.1	1463.3	1597.0	1702.9	1708.1	1810.3	1916.6	1623.3
42.5°	1335.3	1341.6	1389.6	1475.4	1558.5	1655.4	1751.3	1757.1	1808.7	1980.9	1707.1
45°	1395.3	1410.6	1467.0	1564.3	1639.1	1723.9	1762.3	1786.0	1823.5	2038.2	1775.0
47.5°	1479.6	1493.8	1540.1	1635.4	1722.9	1783.9	1813.4	1836.6	1858.7	2088.3	1818.7
50°	1569.1	1571.7	1628.1	1714.5	1778.6	1851.9	1908.7	1916.6	1905.0	2146.2	1892.9
52.5°	1634.9	1643.3	1687.0	1771.3	1867.1	1957.2	2035.1	2043.5	2020.8	2167.8	1918.2
55°	1525.9	1521.2	1592.3	1704.5	1926.6	2114.1	2227.3	2233.6	2105.1	2234.6	2000.8
57.5°	1179.4	1202.1	1262.7	1398.0	1711.8	2183.6	2375.7	2353.1	2206.2	2268.3	2053.6
60°	857.2	851.9	892.5	983.0	1290.0	1881.9	2246.2	2269.4	2123.5	2044.6	1693.4
62.5°	698.2	690.8	694.0	697.1	832.5	1249.0	1662.8	1662.3	1635.4	1469.6	1142.1
65°	558.2	575.5	577.1	600.8	618.1	746.1	963.5	1015.2	884.1	725.0	526.0
67.5°	420.7	414.4	435.5	519.7	552.4	538.7	526.0	531.8	378.0	272.7	256.9
70°	248.0	245.4	270.6	362.3	454.9	428.1	396.4	397.0	259.6	190.6	212.2
72.5°	135.8	135.3	140.6	183.8	258.5	268.5	238.0	245.4	154.8	154.2	165.8
75°	75.9	74.3	72.7	81.1	93.2	98.5	100.6	101.6	106.4	119.0	123.7
77.5°	27.9	26.8	26.8	31.0	39.5	49.5	62.7	63.7	75.3	86.4	91.1
80°	9.5	10.5	14.2	19.5	26.3	35.2	42.6	43.7	53.2	60.6	62.1
82.5°	5.8	6.3	9.5	13.7	18.9	24.7	31.6	32.1	39.5	44.2	46.3
85°	2.6	3.2	5.3	8.4	12.1	16.3	16.8	16.8	16.3	16.8	15.8
87.5°	0.0	0.0	1.1	1.1	1.1	1.6	2.1	1.6	2.6	3.2	3.2
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°	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3	1592.3
2.5°	1578.1	1572.2	1554.3	1538.5	1533.8	1512.8	1481.7	1485.4	1462.8	1473.3	1462.2
5°	1556.4	1537.0	1491.2	1471.7	1420.6	1397.4	1381.7	1342.2	1323.7	1320.0	1304.2
7.5°	1501.2	1489.1	1431.6	1379.0	1324.7	1278.5	1218.9	1178.4	1149.5	1141.6	1118.4
10°	1457.5	1430.6	1351.2	1271.1	1193.7	1113.1	1035.7	975.1	945.7	911.5	899.9
12.5°	1414.3	1373.8	1266.4	1163.7	1063.6	962.0	868.2	794.6	730.3	715.0	709.8
15°	1387.5	1316.9	1190.5	1066.8	924.6	791.9	698.2	649.8	610.2	593.9	605.5
17.5°	1352.2	1270.0	1117.9	953.0	796.7	674.5	596.0	566.0	551.8	553.4	548.7
20°	1307.9	1225.8	1022.6	849.8	682.4	585.0	540.3	529.2	531.3	535.0	533.4
22.5°	1276.3	1172.1	953.6	744.5	589.7	535.5	517.0	509.1	516.0	519.1	516.5
25°	1252.1	1126.3	869.8	651.4	536.1	507.6	499.1	498.6	509.1	513.3	510.7
27.5°	1230.0	1083.6	786.7	580.3	500.2	486.0	483.4	489.7	496.5	500.7	504.4
30°	1216.8	1051.0	708.7	520.7	482.3	475.5	470.7	476.5	480.2	484.4	482.3
32.5°	1229.5	1027.8	633.4	487.0	467.6	460.7	467.0	463.4	469.7	473.4	467.6
35°	1269.0	1007.3	579.7	469.1	450.7	453.4	454.4	452.8	455.5	452.3	459.2
37.5°	1307.9	999.9	530.3	453.9	442.8	442.8	441.8	438.6	443.9	442.8	446.0
40°	1357.5	1004.7	488.1	437.6	435.5	434.4	430.2	429.7	427.6	428.1	429.2
42.5°	1400.6	1015.2	463.9	427.1	428.6	430.7	422.9	416.5	419.2	413.9	413.9
45°	1446.4	1024.7	442.3	419.7	418.1	417.6	411.2	407.5	405.4	406.0	410.7
47.5°	1518.5	1038.4	426.0	409.7	410.7	402.8	401.2	396.4	398.6	401.7	402.3
50°	1569.6	1067.3	413.4	398.0	401.7	396.4	387.0	384.9	384.9	390.1	389.1
52.5°	1605.5	1107.8	401.2	385.4	387.0	382.8	379.6	374.9	371.7	379.1	382.8
55°	1715.0	1175.2	398.0	374.9	374.4	370.1	364.4	359.6	358.0	359.1	366.5
57.5°	1704.5	1154.2	388.0	356.5	355.4	349.6	343.8	342.3	341.7	342.8	344.9
60°	1383.8	852.4	346.5	335.4	333.8	332.8	327.0	320.7	317.5	320.7	318.1
62.5°	915.7	570.8	305.4	310.2	311.2	308.6	299.1	292.8	293.8	297.5	291.7
65°	449.7	335.4	276.9	289.6	290.6	283.2	274.3	266.9	263.2	266.4	263.8
67.5°	256.9	256.4	253.8	266.9	266.4	259.0	244.8	238.5	232.2	233.3	231.7
70°	218.0	222.2	227.5	235.4	234.8	226.4	209.6	204.8	195.9	194.9	192.2
72.5°	171.6	179.0	190.6	196.4	191.7	181.2	170.1	162.1	154.2	149.5	151.1
75°	127.4	137.9	144.2	147.9	140.6	134.8	125.8	116.4	106.9	102.7	101.1
77.5°	92.7	95.8	101.6	104.3	99.5	93.7	88.5	79.0	70.1	64.3	62.7
80°	64.8	66.9	71.1	71.1	71.1	68.5	61.6	52.1	46.3	41.0	40.0
82.5°	45.2	47.3	51.6	49.5	48.9	45.8	41.6	34.2	27.9	24.2	23.1
85°	15.8	17.4	21.0	25.3	26.8	26.3	23.7	18.9	14.7	12.1	11.0
87.5°	3.7	3.7	4.2	3.7	3.7	4.2	3.7	3.7	3.7	2.6	2.1
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)