

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: P526543

Luminaire Tested: **GALN-SA1C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

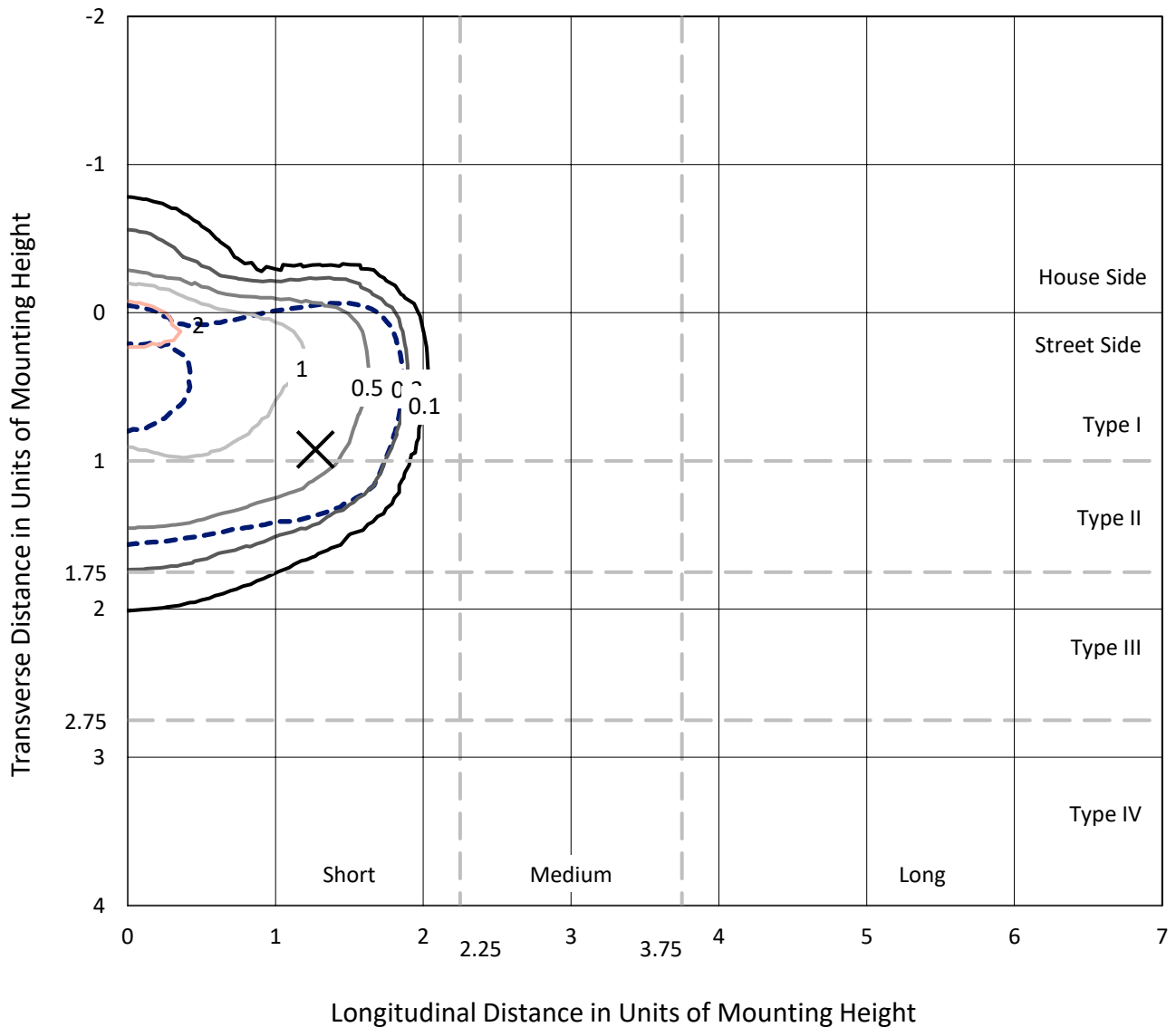
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

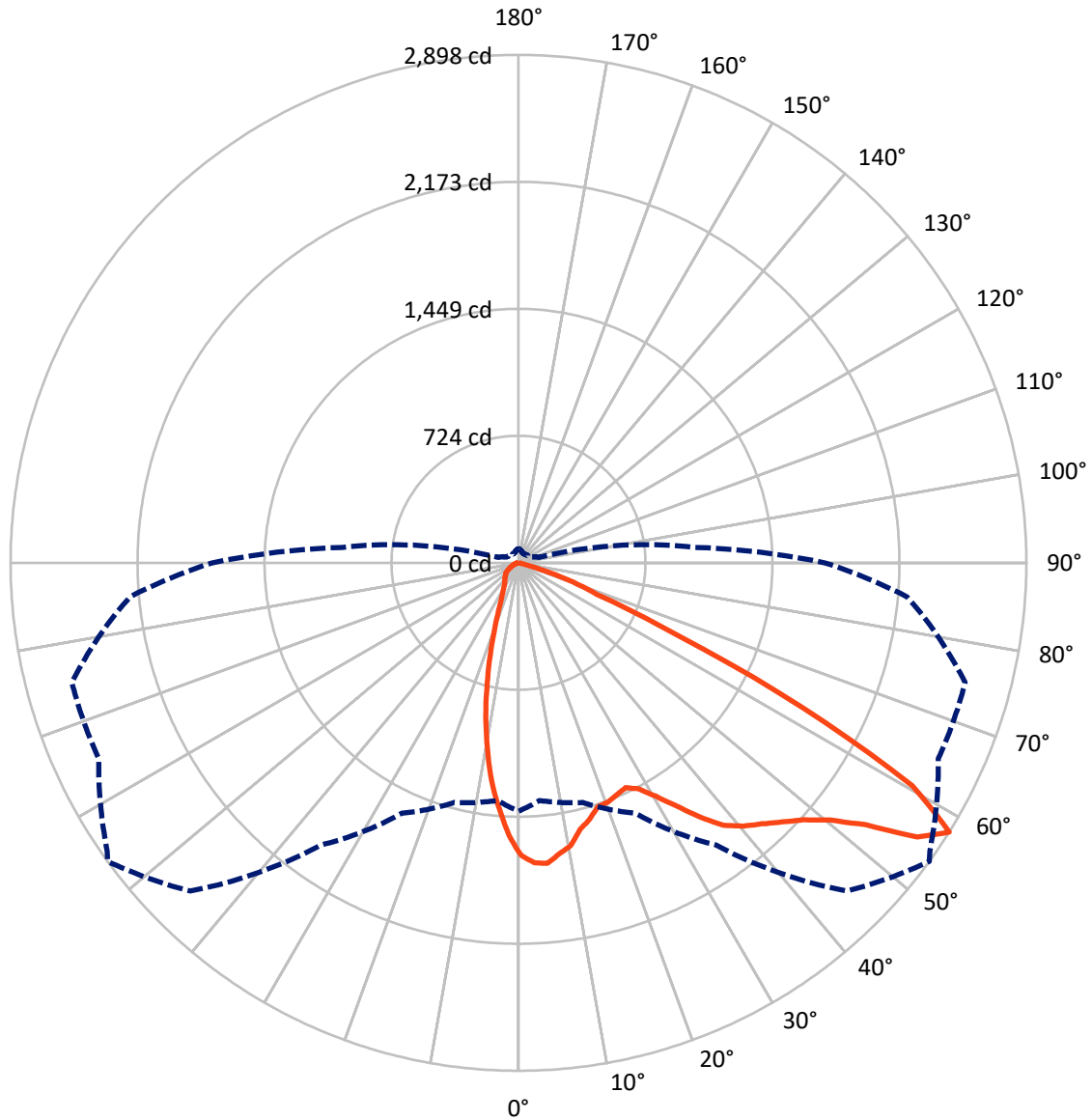
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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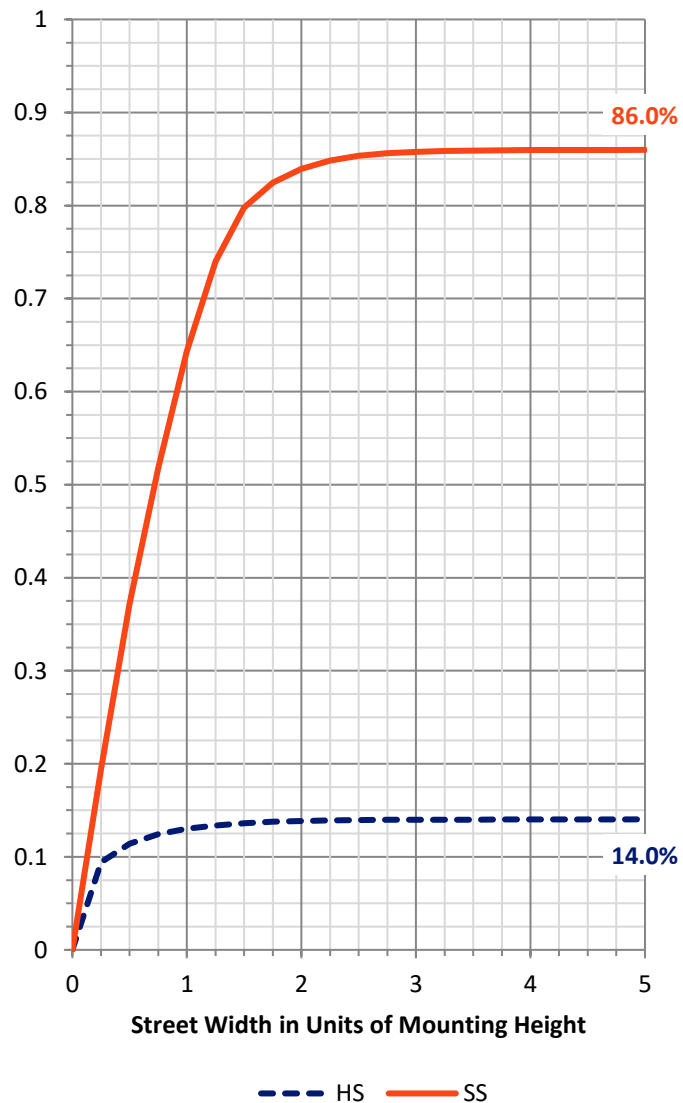
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	535.3	0.0	535.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3252.7	0.0	3252.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	3788.0	0.0	3788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	3.7
10°-20°	298.1	7.9
20°-30°	395.1	10.4
30°-40°	574.2	15.2
40°-50°	851.4	22.5
50°-60°	1064.6	28.1
60°-70°	419.9	11.1
70°-80°	41.8	1.1
80°-90°	3.2	0.1
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°	3788.0	100.0
0°-180°	3788.0	100.0

Coefficient of Utilization

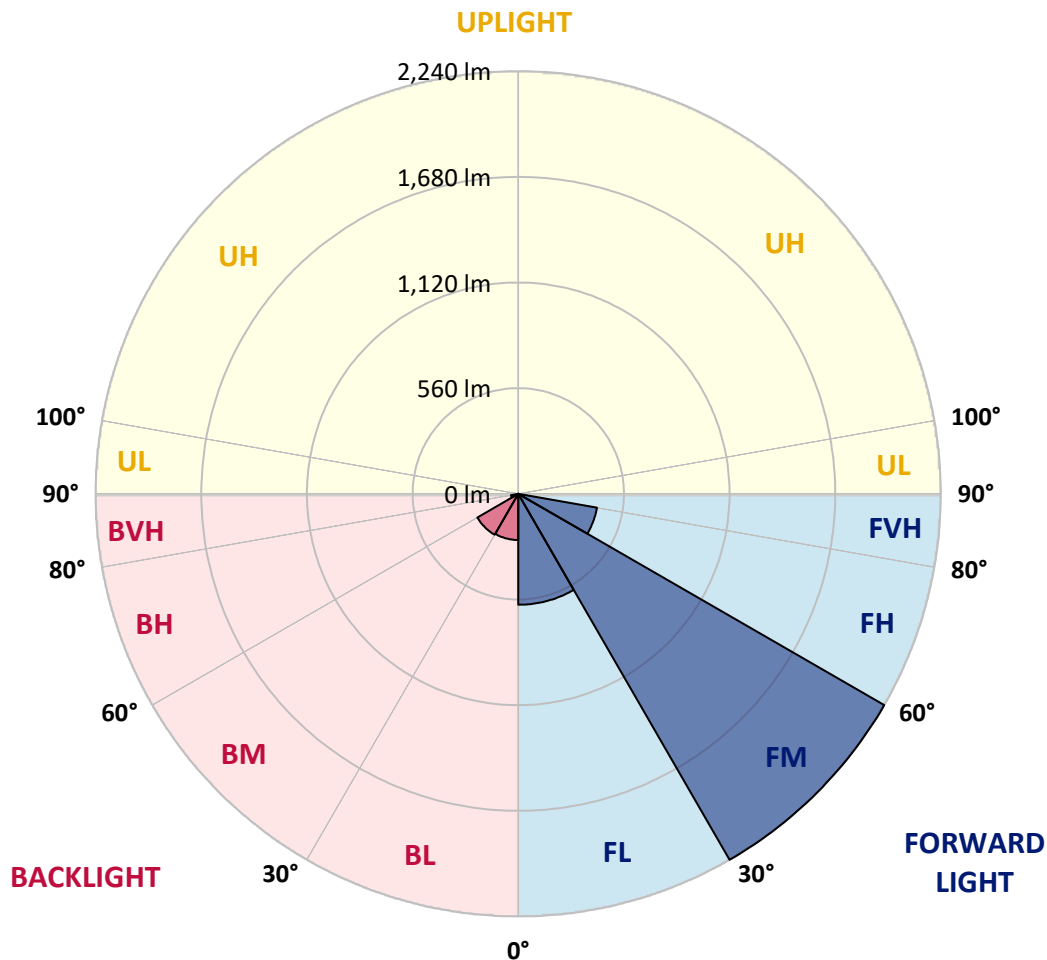


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.0	15.5			
FM (30°-60°)	2239.8	59.1			
FH (60°-80°)	423.4	11.2			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	244.8	6.5	B1/500		
BM (30°-60°)	250.3	6.6	B1/1000		
BH (60°-80°)	38.4	1.0	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7
2.5°	1765.9	1747.6	1749.0	1742.6	1734.2	1740.5	1713.0	1719.4	1718.7	1681.3	1656.7
5°	1721.5	1741.2	1720.8	1737.7	1721.5	1739.1	1722.2	1709.5	1689.1	1661.6	1615.8
7.5°	1646.1	1627.1	1632.7	1653.9	1657.4	1696.8	1675.7	1691.9	1683.5	1629.2	1566.5
10°	1494.7	1490.5	1518.6	1546.8	1581.3	1623.6	1639.8	1630.6	1624.3	1603.9	1520.0
12.5°	1378.5	1390.4	1389.7	1436.2	1494.7	1518.6	1560.9	1559.5	1594.7	1556.7	1476.4
15°	1267.9	1274.2	1303.8	1332.7	1397.5	1465.8	1517.9	1525.0	1567.2	1540.5	1442.6
17.5°	1200.3	1191.1	1214.3	1248.9	1315.1	1404.5	1462.3	1479.2	1536.9	1531.3	1403.8
20°	1133.3	1133.3	1152.4	1193.2	1253.8	1354.5	1457.4	1452.4	1536.9	1520.7	1362.3
22.5°	1110.8	1122.1	1127.0	1158.0	1229.8	1316.5	1436.2	1445.4	1548.9	1515.8	1343.9
25°	1141.8	1127.0	1128.4	1153.1	1220.7	1298.2	1420.7	1441.2	1570.8	1540.5	1329.2
27.5°	1146.7	1161.5	1165.7	1182.6	1227.7	1303.8	1459.5	1501.0	1625.0	1598.2	1333.4
30°	1189.7	1204.5	1203.8	1232.7	1263.6	1349.6	1546.1	1554.6	1737.0	1670.8	1359.4
32.5°	1241.8	1257.3	1262.2	1296.1	1320.7	1433.4	1651.8	1673.6	1844.8	1784.9	1427.8
35°	1306.6	1301.0	1323.5	1357.3	1410.2	1556.0	1780.7	1817.3	1961.0	1932.8	1498.2
37.5°	1387.6	1380.6	1402.4	1457.4	1529.2	1701.1	1899.7	1923.6	2045.5	2070.2	1628.5
40°	1444.7	1447.5	1513.7	1587.7	1663.7	1839.1	1975.1	1998.3	2104.7	2198.4	1727.1
42.5°	1539.8	1557.4	1637.0	1727.1	1806.7	1942.7	2036.3	2058.9	2132.1	2301.2	1860.3
45°	1677.8	1670.1	1758.1	1858.8	1946.9	2050.4	2108.9	2101.2	2148.3	2403.3	1944.1
47.5°	1855.3	1856.7	1915.2	2001.1	2092.7	2144.1	2189.9	2162.4	2182.2	2511.1	2056.1
50°	1976.5	1987.0	2034.2	2122.3	2168.1	2247.0	2305.4	2288.5	2282.2	2575.9	2126.5
52.5°	2007.5	2039.2	2064.5	2174.4	2281.5	2406.1	2480.8	2516.7	2404.0	2597.7	2216.0
55°	1773.6	1801.8	1891.2	2042.0	2324.4	2658.3	2761.2	2761.9	2563.2	2694.9	2278.7
57.5°	1417.9	1360.9	1415.8	1575.7	1965.2	2647.7	2897.8	2864.7	2642.8	2637.9	2224.4
60°	980.5	966.4	969.9	1033.3	1360.1	2106.1	2582.2	2625.2	2433.6	2286.4	1760.9
62.5°	776.9	765.0	749.5	742.4	844.5	1312.3	1821.5	1882.1	1701.8	1482.7	1043.9
65°	608.6	601.5	603.6	631.8	631.1	744.5	996.0	971.3	777.6	574.8	328.2
67.5°	410.7	421.2	429.7	514.9	558.6	518.4	481.1	467.0	252.9	106.4	72.6
70°	231.0	232.4	241.6	321.9	424.0	402.2	331.8	331.8	126.1	38.7	41.6
72.5°	126.1	121.9	113.4	138.8	188.8	191.6	147.9	128.9	37.3	25.4	23.2
75°	61.3	60.6	52.1	43.0	40.9	33.8	26.1	23.9	16.9	16.2	14.1
77.5°	12.7	12.0	6.3	6.3	7.0	7.7	9.9	9.9	12.0	12.0	9.9
80°	0.0	0.0	0.7	2.8	4.9	7.0	8.5	8.5	9.9	9.9	7.7
82.5°	0.0	0.0	0.7	2.1	4.2	6.3	7.7	8.5	9.9	10.6	8.5
85°	0.0	0.0	0.0	1.4	3.5	4.9	4.2	4.2	3.5	2.8	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7	1668.7
2.5°	1644.0	1642.6	1610.2	1591.9	1558.8	1529.9	1506.7	1489.8	1489.8	1479.2	1469.3
5°	1597.5	1585.5	1516.5	1472.1	1409.5	1363.0	1331.3	1306.6	1267.9	1278.4	1236.9
7.5°	1539.8	1509.5	1417.9	1350.3	1263.6	1197.4	1129.8	1069.9	1012.2	986.1	1000.2
10°	1477.8	1425.0	1301.7	1194.6	1086.9	965.7	886.8	791.0	731.8	728.3	712.8
12.5°	1412.3	1352.4	1202.4	1054.4	912.9	767.1	646.6	557.2	517.0	472.6	481.1
15°	1363.0	1274.2	1091.8	913.6	725.5	578.3	457.1	388.1	350.1	339.5	336.0
17.5°	1309.4	1214.3	979.1	763.5	569.1	416.3	328.9	295.8	281.0	281.0	278.9
20°	1253.8	1146.7	867.1	624.1	426.9	310.6	263.4	252.9	252.2	251.5	251.5
22.5°	1217.2	1069.2	765.7	495.9	321.9	248.6	228.9	224.7	227.5	236.0	236.0
25°	1178.4	994.6	653.7	382.5	249.3	213.4	202.2	205.0	212.0	219.8	216.9
27.5°	1139.0	946.0	548.0	300.1	204.3	186.7	182.4	188.8	196.5	203.6	201.5
30°	1129.8	893.9	448.0	227.5	175.4	162.7	165.5	171.2	178.9	181.7	184.5
32.5°	1143.9	853.0	367.0	186.7	152.8	149.3	149.3	152.1	157.1	163.4	161.3
35°	1184.1	829.8	290.2	162.0	140.2	136.6	135.9	138.8	141.6	143.7	141.6
37.5°	1245.3	811.4	237.4	143.7	131.7	126.1	124.7	124.0	126.8	127.5	128.9
40°	1323.5	821.3	201.5	132.4	123.3	116.9	112.7	112.7	112.7	114.8	115.5
42.5°	1408.0	834.7	174.0	126.1	115.5	107.8	103.5	102.1	103.5	106.4	105.7
45°	1496.8	860.7	156.4	116.2	108.5	98.6	93.0	91.6	95.1	100.7	100.0
47.5°	1579.9	898.1	143.0	109.9	101.4	92.3	85.2	83.8	90.2	97.9	98.6
50°	1663.0	962.9	138.1	105.0	96.5	85.9	79.6	78.2	85.2	95.1	97.2
52.5°	1758.8	1032.6	134.5	98.6	90.9	81.0	74.0	72.6	80.3	93.0	93.7
55°	1821.5	1091.8	131.7	87.3	80.3	73.3	67.6	66.9	75.4	86.6	89.5
57.5°	1748.3	1009.4	121.9	76.1	68.3	64.8	59.9	59.9	66.9	77.5	79.6
60°	1325.6	664.2	86.6	61.3	57.8	55.6	53.5	53.5	59.2	66.9	67.6
62.5°	776.2	357.8	55.6	49.3	49.3	47.2	43.7	43.7	49.3	53.5	54.2
65°	230.3	114.8	45.1	42.3	41.6	38.0	34.5	33.8	38.0	40.1	39.4
67.5°	66.2	52.8	37.3	35.2	34.5	28.9	26.8	26.1	26.8	25.4	24.7
70°	39.4	35.9	28.9	29.6	26.1	21.1	19.0	18.3	16.9	14.8	13.4
72.5°	21.8	21.8	21.1	22.5	18.3	14.1	12.0	9.9	7.7	6.3	5.6
75°	13.4	14.1	14.8	15.5	12.0	9.2	7.7	4.9	2.8	1.4	1.4
77.5°	9.2	9.9	10.6	11.3	9.9	8.5	6.3	3.5	0.7	0.0	0.0
80°	7.0	7.7	9.2	9.9	10.6	11.3	8.5	3.5	0.7	0.0	0.0
82.5°	7.7	8.5	10.6	9.9	9.9	9.9	7.7	3.5	0.7	0.0	0.0
85°	1.4	2.1	3.5	3.5	4.9	6.3	4.9	1.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)