

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: P526751

Luminaire Tested: **GALN-SA1D-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526751
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-SA1D-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA 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: 3829 lumens
Efficiency: N/A
Efficacy: 58.9 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

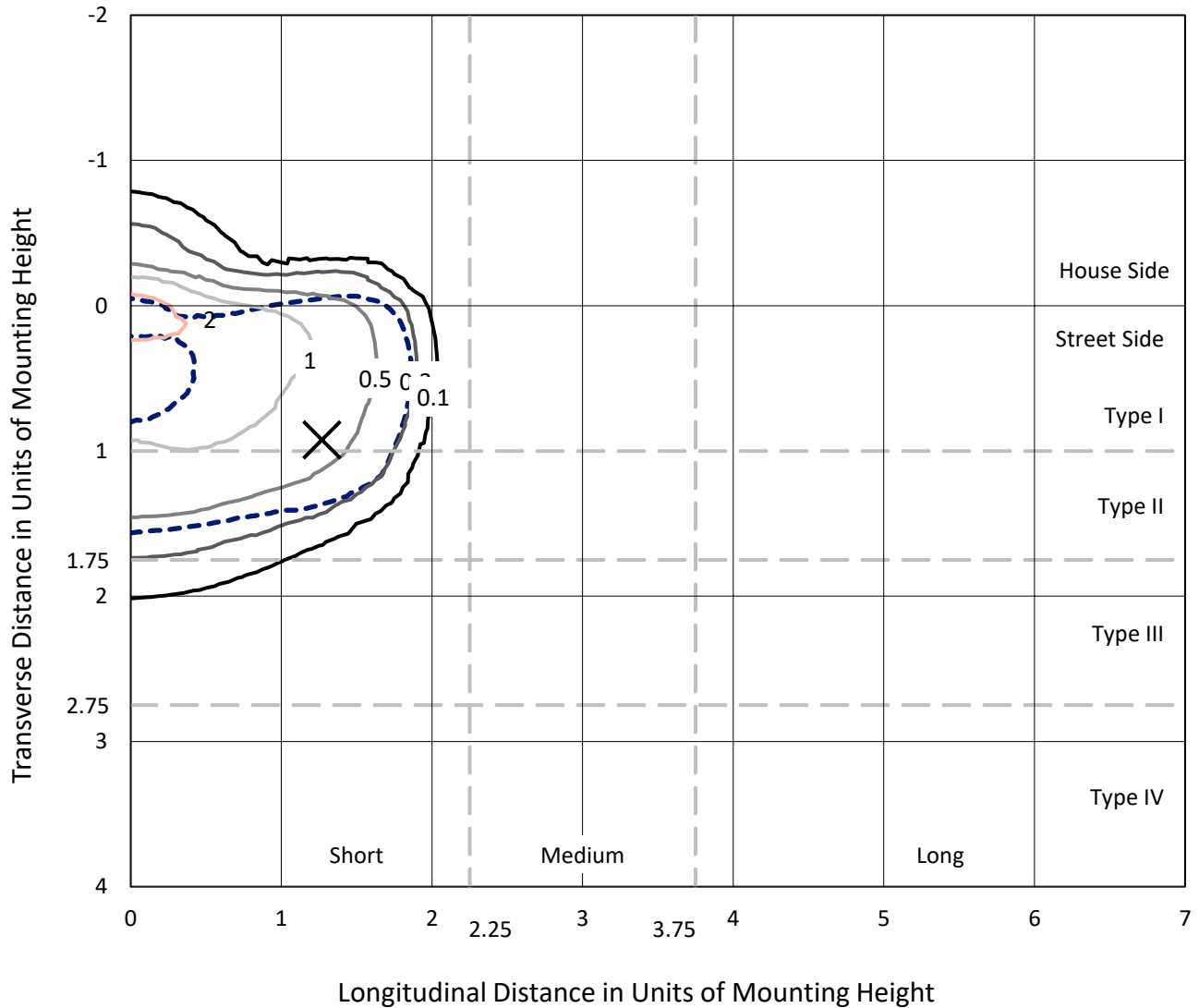
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

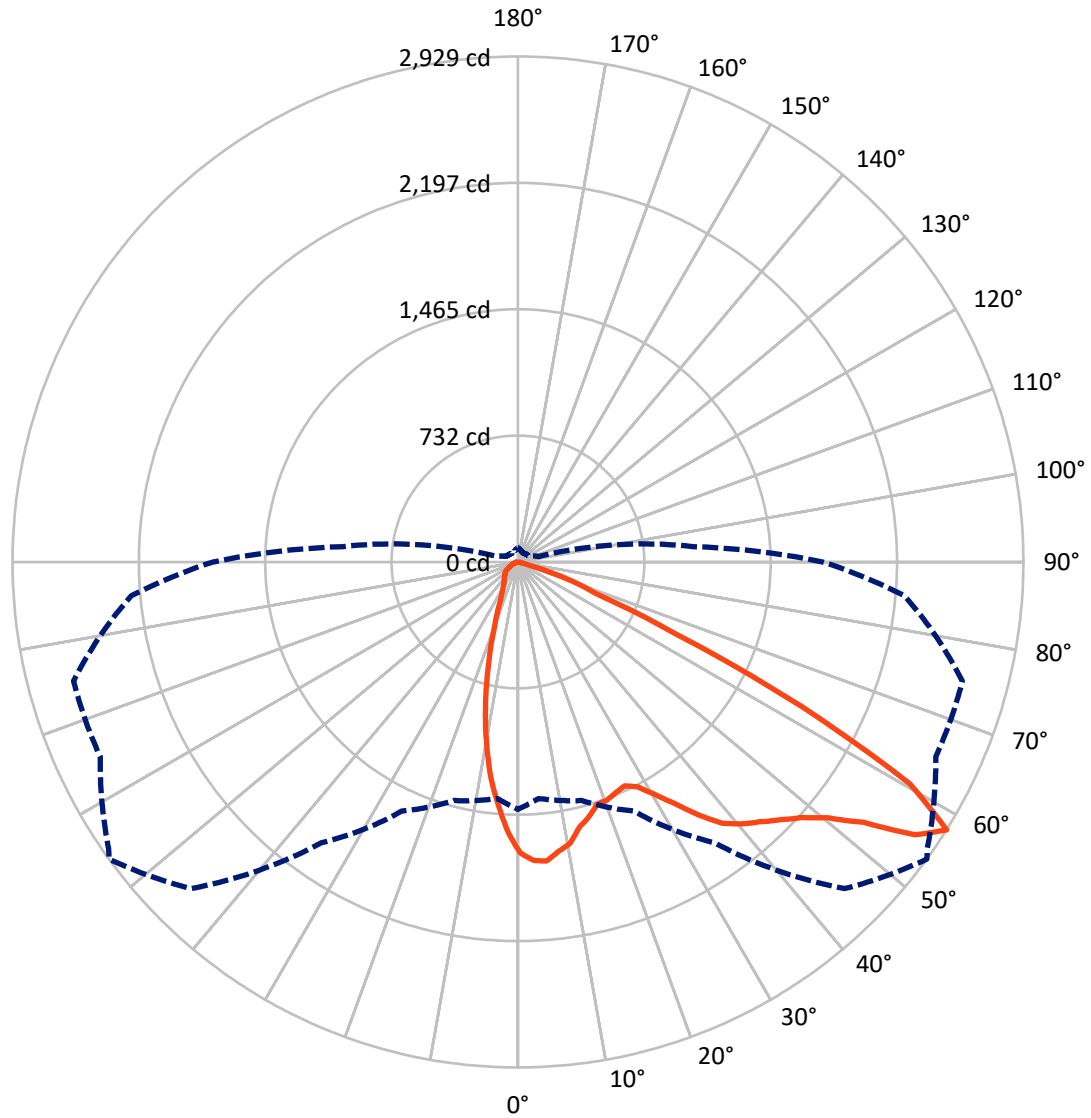
✕ Max cd
 - - - 1/2 Max cd



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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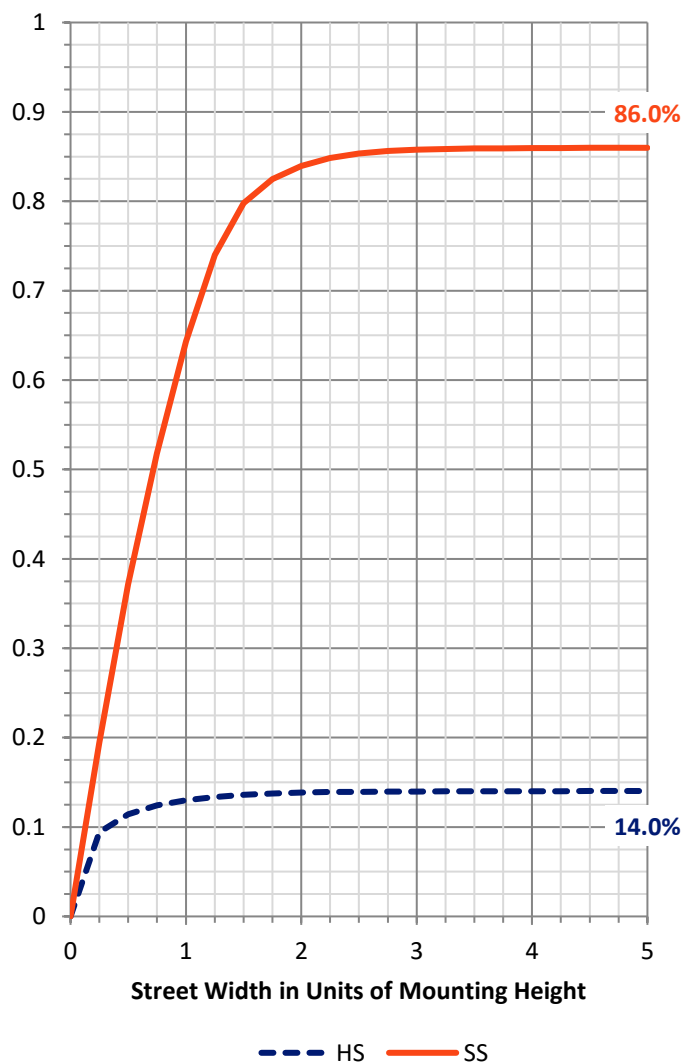
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.1	0.0	541.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	3287.9	0.0	3287.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	3829.0	0.0	3829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.7
10°-20°	301.4	7.9
20°-30°	399.3	10.4
30°-40°	580.4	15.2
40°-50°	860.6	22.5
50°-60°	1076.1	28.1
60°-70°	424.5	11.1
70°-80°	42.3	1.1
80°-90°	3.3	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°	3829.0	100.0
0°-180°	3829.0	100.0

Coefficient of Utilization

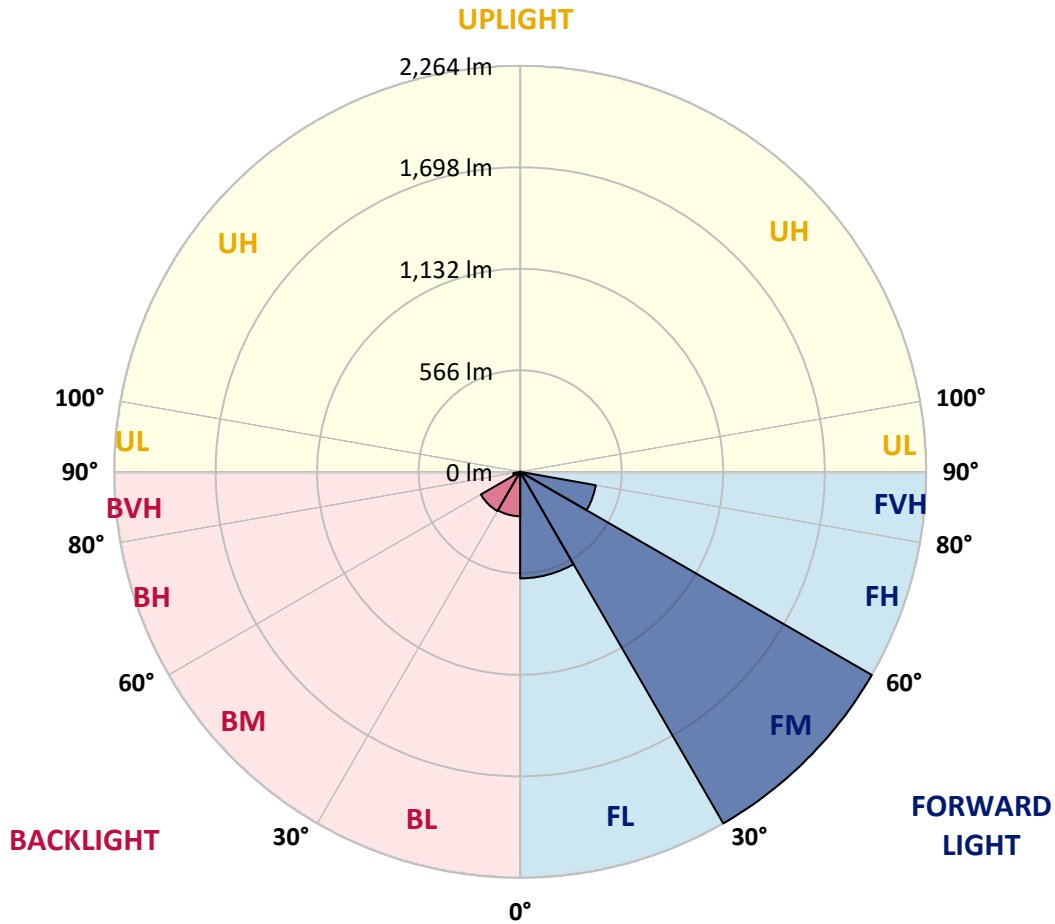


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.4	15.5			
FM (30°-60°)	2264.1	59.1			
FH (60°-80°)	428.0	11.2			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	247.5	6.5	B1/500		
BM (30°-60°)	253.0	6.6	B1/1000		
BH (60°-80°)	38.8	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°	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1785.0	1766.5	1767.9	1761.5	1752.9	1759.3	1731.6	1738.0	1737.3	1699.5	1674.6
5°	1740.1	1760.1	1739.4	1756.5	1740.1	1757.9	1740.8	1728.0	1707.4	1679.6	1633.3
7.5°	1663.9	1644.7	1650.4	1671.8	1675.3	1715.2	1693.8	1710.2	1701.7	1646.9	1583.5
10°	1510.9	1506.6	1535.1	1563.6	1598.4	1641.2	1657.5	1648.3	1641.9	1621.2	1536.5
12.5°	1393.4	1405.5	1404.8	1451.8	1510.9	1535.1	1577.8	1576.4	1612.0	1573.5	1492.4
15°	1281.6	1288.0	1317.9	1347.1	1412.6	1481.7	1534.4	1541.5	1584.2	1557.1	1458.2
17.5°	1213.2	1204.0	1227.5	1262.4	1329.3	1419.7	1478.1	1495.2	1553.6	1547.9	1419.0
20°	1145.6	1145.6	1164.8	1206.1	1267.4	1369.2	1473.1	1468.1	1553.6	1537.2	1377.0
22.5°	1122.8	1134.2	1139.2	1170.5	1243.2	1330.7	1451.8	1461.0	1565.7	1532.2	1358.5
25°	1154.2	1139.2	1140.6	1165.5	1233.9	1312.2	1436.1	1456.8	1587.8	1557.1	1343.5
27.5°	1159.1	1174.1	1178.4	1195.4	1241.0	1317.9	1475.3	1517.3	1642.6	1615.5	1347.8
30°	1202.6	1217.5	1216.8	1246.0	1277.3	1364.2	1562.8	1571.4	1755.8	1688.9	1374.2
32.5°	1255.3	1270.9	1275.9	1310.1	1335.0	1448.9	1669.6	1691.7	1864.7	1804.2	1443.2
35°	1320.8	1315.1	1337.8	1372.0	1425.4	1572.8	1799.9	1837.0	1982.2	1953.7	1514.4
37.5°	1402.6	1395.5	1417.6	1473.1	1545.8	1719.5	1920.3	1944.5	2067.6	2092.6	1646.1
40°	1460.3	1463.2	1530.1	1604.8	1681.7	1859.0	1996.4	2019.9	2127.5	2222.1	1745.8
42.5°	1556.4	1574.2	1654.7	1745.8	1826.3	1963.7	2058.4	2081.2	2155.2	2326.1	1880.4
45°	1696.0	1688.2	1777.1	1879.0	1968.0	2072.6	2131.7	2123.9	2171.6	2429.3	1965.1
47.5°	1875.4	1876.8	1935.9	2022.8	2115.3	2167.3	2213.6	2185.8	2205.8	2538.3	2078.3
50°	1997.9	2008.5	2056.3	2145.3	2191.5	2271.3	2330.4	2313.3	2306.9	2603.8	2149.5
52.5°	2029.2	2061.2	2086.9	2197.9	2306.2	2432.2	2507.7	2544.0	2430.1	2625.9	2239.9
55°	1792.8	1821.3	1911.7	2064.1	2349.6	2687.1	2791.0	2791.7	2591.0	2724.1	2303.3
57.5°	1433.3	1375.6	1431.1	1592.7	1986.5	2676.4	2929.2	2895.7	2671.4	2666.4	2248.5
60°	991.1	976.9	980.4	1044.5	1374.9	2128.9	2610.2	2653.6	2460.0	2311.1	1780.0
62.5°	785.3	773.2	757.6	750.4	853.7	1326.5	1841.2	1902.5	1720.2	1498.8	1055.2
65°	615.2	608.0	610.2	638.7	638.0	752.6	1006.8	981.8	786.0	581.0	331.8
67.5°	415.1	425.8	434.3	520.5	564.6	524.0	486.3	472.1	255.6	107.5	73.3
70°	233.5	235.0	244.2	325.4	428.6	406.6	335.4	335.4	127.4	39.2	42.0
72.5°	127.4	123.2	114.6	140.3	190.8	193.7	149.5	130.3	37.7	25.6	23.5
75°	61.9	61.2	52.7	43.4	41.3	34.2	26.3	24.2	17.1	16.4	14.2
77.5°	12.8	12.1	6.4	6.4	7.1	7.8	10.0	10.0	12.1	12.1	10.0
80°	0.0	0.0	0.7	2.8	5.0	7.1	8.5	8.5	10.0	10.0	7.8
82.5°	0.0	0.0	0.7	2.1	4.3	6.4	7.8	8.5	10.0	10.7	8.5
85°	0.0	0.0	0.0	1.4	3.6	5.0	4.3	4.3	3.6	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°	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1661.8	1660.4	1627.6	1609.1	1575.7	1546.5	1523.0	1505.9	1505.9	1495.2	1485.2
5°	1614.8	1602.7	1532.9	1488.1	1424.7	1377.7	1345.7	1320.8	1281.6	1292.3	1250.3
7.5°	1556.4	1525.8	1433.3	1364.9	1277.3	1210.4	1142.0	1081.5	1023.1	996.8	1011.0
10°	1493.8	1440.4	1315.8	1207.6	1098.6	976.2	896.4	799.6	739.8	736.2	720.5
12.5°	1427.6	1367.0	1215.4	1065.9	922.8	775.4	653.6	563.2	522.6	477.8	486.3
15°	1377.7	1288.0	1103.6	923.5	733.4	584.6	462.1	392.3	353.9	343.2	339.6
17.5°	1323.6	1227.5	989.7	771.8	575.3	420.8	332.5	299.0	284.1	284.1	282.0
20°	1267.4	1159.1	876.5	630.8	431.5	314.0	266.3	255.6	254.9	254.2	254.2
22.5°	1230.3	1080.8	773.9	501.2	325.4	251.3	231.4	227.1	230.0	238.5	238.5
25°	1191.2	1005.3	660.7	386.6	252.0	215.7	204.3	207.2	214.3	222.1	219.3
27.5°	1151.3	956.2	553.9	303.3	206.5	188.7	184.4	190.8	198.6	205.8	203.6
30°	1142.0	903.5	452.8	230.0	177.3	164.5	167.3	173.0	180.8	183.7	186.5
32.5°	1156.3	862.2	371.0	188.7	154.5	150.9	150.9	153.8	158.8	165.2	163.0
35°	1196.9	838.7	293.3	163.8	141.7	138.1	137.4	140.3	143.1	145.2	143.1
37.5°	1258.8	820.2	239.9	145.2	133.1	127.4	126.0	125.3	128.2	128.9	130.3
40°	1337.8	830.2	203.6	133.9	124.6	118.2	113.9	113.9	113.9	116.1	116.8
42.5°	1423.3	843.7	175.9	127.4	116.8	108.9	104.7	103.2	104.7	107.5	106.8
45°	1513.0	870.1	158.1	117.5	109.6	99.7	94.0	92.6	96.1	101.8	101.1
47.5°	1597.0	907.8	144.5	111.1	102.5	93.3	86.2	84.7	91.1	99.0	99.7
50°	1681.0	973.3	139.6	106.1	97.5	86.9	80.5	79.0	86.2	96.1	98.3
52.5°	1777.9	1043.8	136.0	99.7	91.8	81.9	74.8	73.3	81.2	94.0	94.7
55°	1841.2	1103.6	133.1	88.3	81.2	74.0	68.4	67.6	76.2	87.6	90.4
57.5°	1767.2	1020.3	123.2	76.9	69.1	65.5	60.5	60.5	67.6	78.3	80.5
60°	1340.0	671.4	87.6	61.9	58.4	56.2	54.1	54.1	59.8	67.6	68.4
62.5°	784.6	361.7	56.2	49.8	49.8	47.7	44.1	44.1	49.8	54.1	54.8
65°	232.8	116.1	45.6	42.7	42.0	38.4	34.9	34.2	38.4	40.6	39.9
67.5°	66.9	53.4	37.7	35.6	34.9	29.2	27.1	26.3	27.1	25.6	24.9
70°	39.9	36.3	29.2	29.9	26.3	21.4	19.2	18.5	17.1	15.0	13.5
72.5°	22.1	22.1	21.4	22.8	18.5	14.2	12.1	10.0	7.8	6.4	5.7
75°	13.5	14.2	15.0	15.7	12.1	9.3	7.8	5.0	2.8	1.4	1.4
77.5°	9.3	10.0	10.7	11.4	10.0	8.5	6.4	3.6	0.7	0.0	0.0
80°	7.1	7.8	9.3	10.0	10.7	11.4	8.5	3.6	0.7	0.0	0.0
82.5°	7.8	8.5	10.7	10.0	10.0	10.0	7.8	3.6	0.7	0.0	0.0
85°	1.4	2.1	3.6	3.6	5.0	6.4	5.0	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)