

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: P526180

Luminaire Tested: **GALN-SA1A-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526180
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-SA1A-760-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA 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: 3914 lumens
Efficiency: N/A
Efficacy: 118.6 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

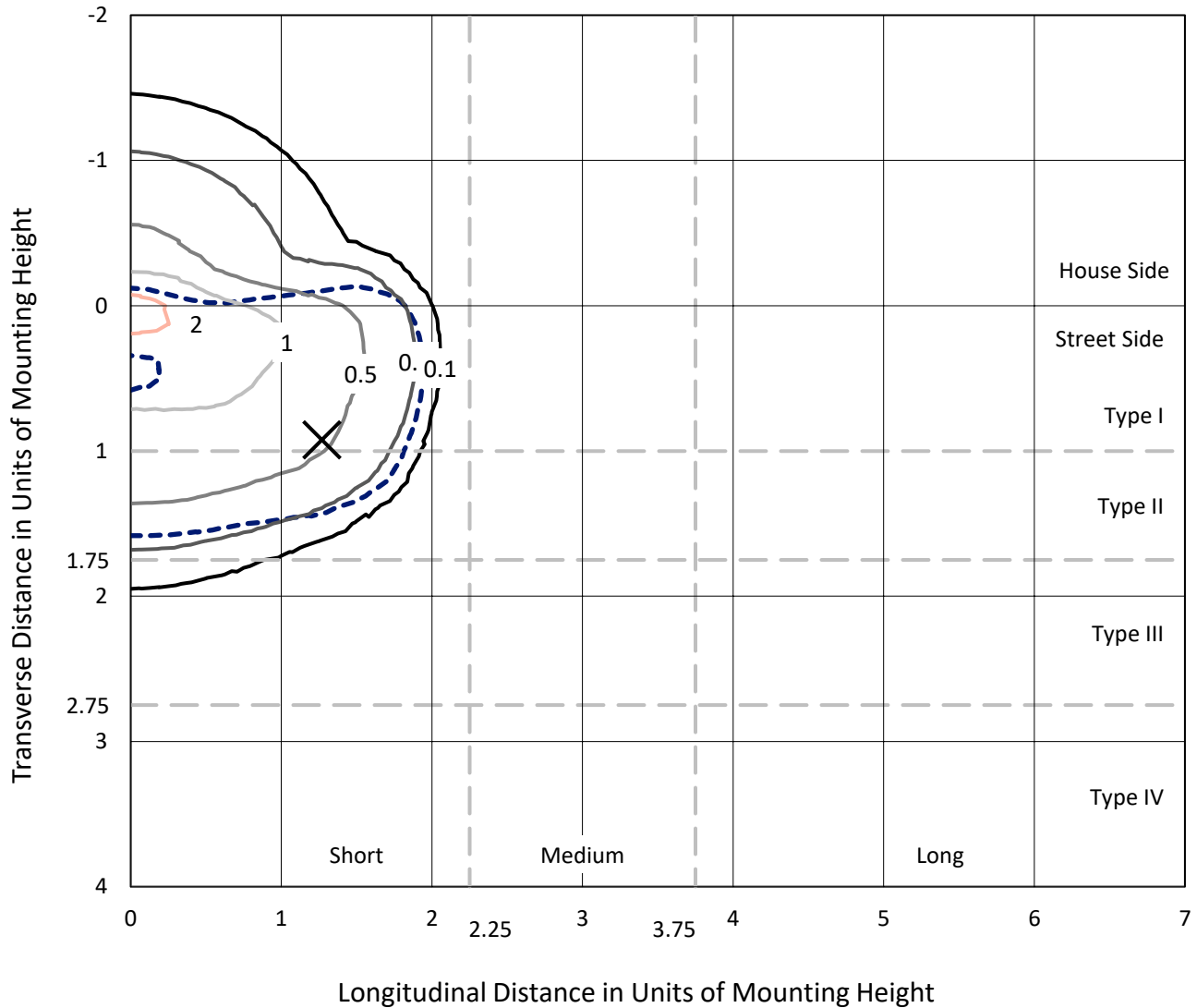
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

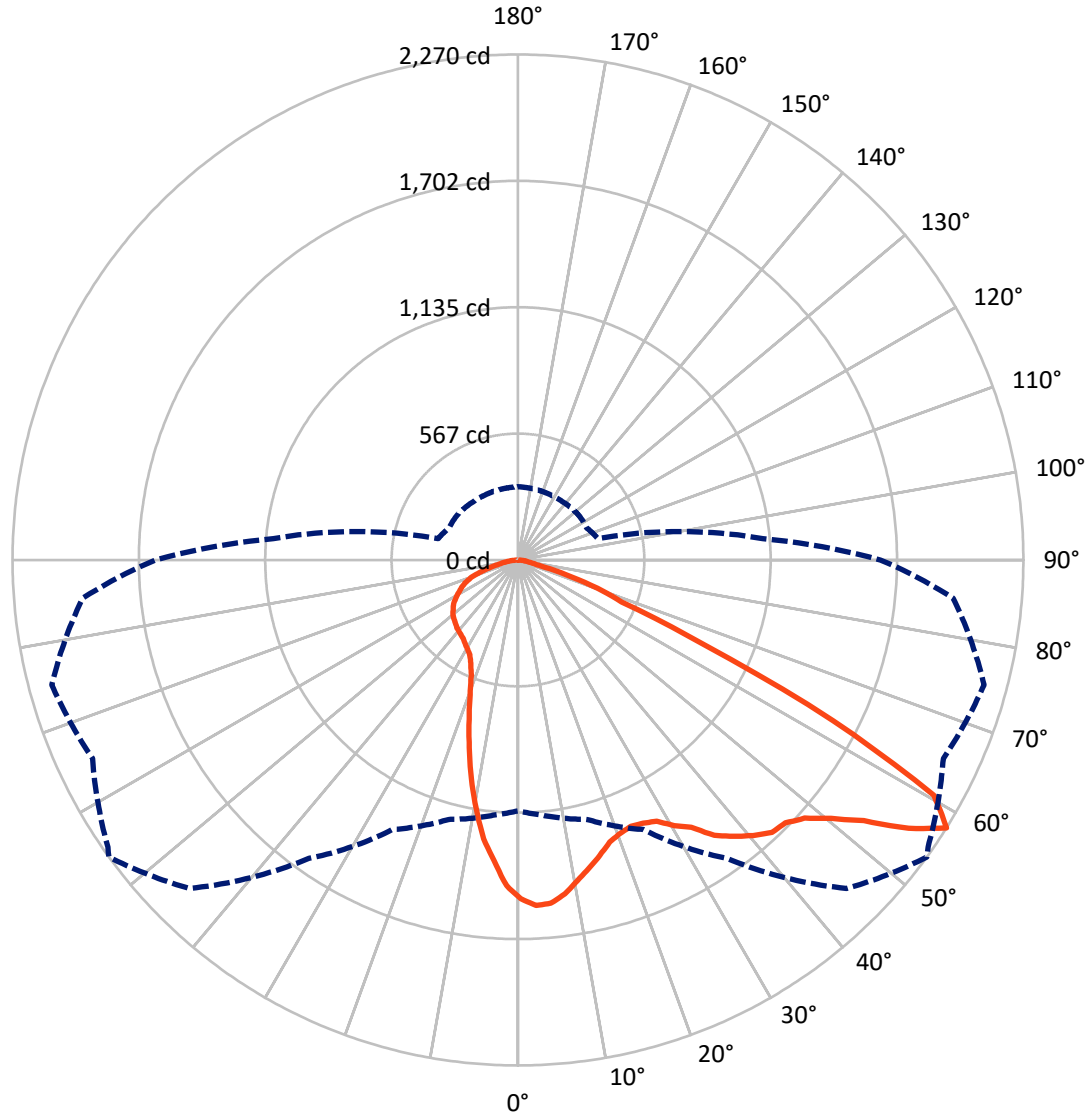
✕ Max cd
 - - - 1/2 Max cd



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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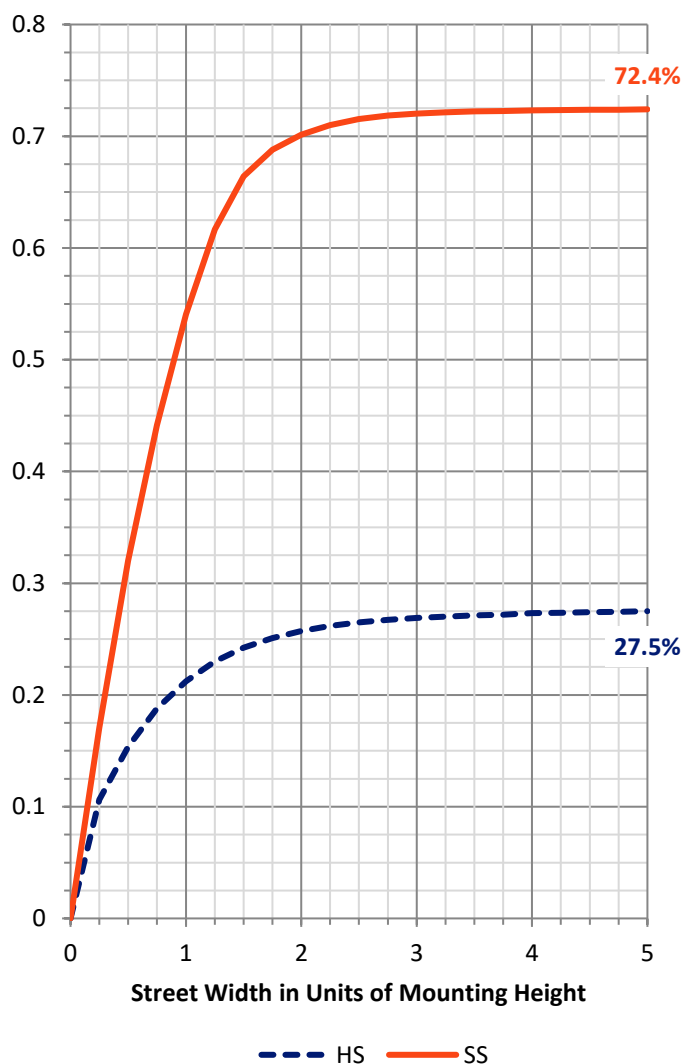
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1082.8	0.0	1082.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	2831.2	0.0	2831.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	3914.0	0.0	3914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.4
10°-20°	303.8	7.8
20°-30°	426.8	10.9
30°-40°	596.7	15.2
40°-50°	807.8	20.6
50°-60°	983.9	25.1
60°-70°	512.5	13.1
70°-80°	131.3	3.4
80°-90°	20.0	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°	3914.0	100.0
0°-180°	3914.0	100.0

Coefficient of Utilization



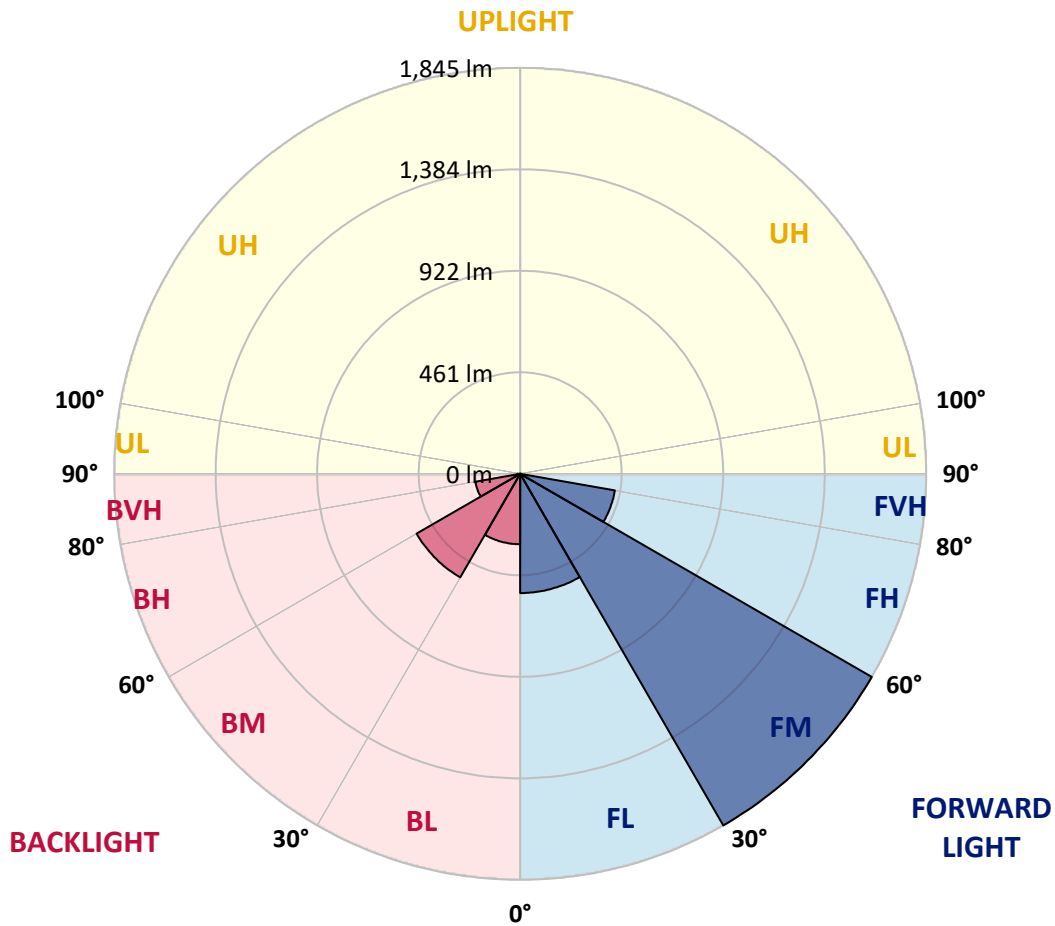
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.8	13.8			
FM (30°-60°)	1844.9	47.1			
FH (60°-80°)	436.9	11.2			G0/660
FVH (80°-90°)	7.6	0.2			G0/10
BL (0°-30°)	320.0	8.2	B1/500		
BM (30°-60°)	543.5	13.9	B1/1000		
BH (60°-80°)	206.9	5.3	B1/500		G1/500
BVH (80°-90°)	12.5	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°	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3
2.5°	1564.6	1558.6	1559.6	1567.6	1557.5	1553.5	1553.5	1533.9	1535.4	1521.8	1518.3
5°	1528.4	1514.3	1523.8	1535.9	1537.9	1542.0	1548.5	1543.5	1529.4	1514.8	1491.1
7.5°	1433.8	1446.4	1449.9	1458.4	1476.6	1493.2	1513.8	1499.7	1499.2	1484.6	1470.5
10°	1350.8	1343.2	1362.4	1374.9	1405.1	1432.8	1464.5	1463.0	1470.5	1453.9	1429.8
12.5°	1268.3	1262.2	1271.3	1300.0	1342.2	1382.5	1420.2	1406.1	1446.4	1443.3	1391.5
15°	1180.7	1185.3	1198.3	1225.0	1280.3	1328.6	1376.4	1376.9	1412.7	1424.7	1355.3
17.5°	1119.4	1114.3	1130.9	1170.7	1220.0	1277.8	1332.2	1343.2	1398.1	1405.1	1344.2
20°	1073.6	1080.6	1102.3	1122.4	1179.2	1249.2	1310.5	1314.6	1395.1	1414.2	1326.6
22.5°	1062.5	1058.5	1065.5	1098.2	1145.0	1221.0	1299.0	1314.1	1394.5	1411.2	1293.4
25°	1050.9	1064.0	1063.5	1096.2	1130.4	1198.3	1308.5	1325.1	1421.2	1426.7	1298.0
27.5°	1077.1	1075.6	1089.7	1092.2	1134.5	1204.4	1328.6	1341.2	1465.5	1461.0	1301.5
30°	1103.3	1095.7	1104.3	1134.0	1153.6	1239.1	1384.0	1383.0	1522.8	1519.8	1312.5
32.5°	1135.5	1131.9	1137.5	1163.6	1196.8	1285.4	1430.8	1460.5	1581.2	1600.3	1350.8
35°	1141.5	1156.1	1169.2	1204.4	1251.7	1360.3	1518.8	1543.5	1648.6	1708.5	1423.7
37.5°	1179.7	1185.3	1216.0	1278.3	1321.6	1460.5	1574.7	1590.2	1710.0	1777.9	1500.7
40°	1220.5	1227.0	1273.3	1338.7	1398.1	1525.9	1627.0	1632.0	1729.6	1831.2	1551.0
42.5°	1275.8	1281.9	1327.6	1409.6	1489.1	1581.7	1673.3	1678.8	1728.1	1892.6	1631.0
45°	1333.2	1347.8	1401.6	1494.7	1566.1	1647.1	1683.8	1706.5	1742.2	1947.4	1695.9
47.5°	1413.7	1427.3	1471.5	1562.6	1646.1	1704.4	1732.6	1754.8	1775.9	1995.2	1737.7
50°	1499.2	1501.7	1555.5	1638.0	1699.4	1769.3	1823.7	1831.2	1820.2	2050.6	1808.6
52.5°	1562.1	1570.1	1611.9	1692.4	1783.9	1870.0	1944.4	1952.5	1930.8	2071.2	1832.7
55°	1457.9	1453.4	1521.3	1628.5	1840.8	2019.9	2128.0	2134.1	2011.3	2135.1	1911.7
57.5°	1126.9	1148.5	1206.4	1335.7	1635.5	2086.3	2269.9	2248.3	2107.9	2167.3	1962.0
60°	819.0	814.0	852.7	939.3	1232.6	1798.0	2146.2	2168.3	2028.9	1953.5	1617.9
62.5°	667.1	660.0	663.1	666.1	795.4	1193.3	1588.7	1588.2	1562.6	1404.1	1091.2
65°	533.3	549.9	551.4	574.0	590.6	712.9	920.6	969.9	844.7	692.7	502.6
67.5°	402.0	395.9	416.1	496.5	527.7	514.7	502.6	508.1	361.2	260.6	245.5
70°	237.0	234.4	258.6	346.1	434.7	409.0	378.8	379.3	248.0	182.1	202.7
72.5°	129.8	129.3	134.3	175.6	247.0	256.6	227.4	234.4	147.9	147.4	158.5
75°	72.4	70.9	69.4	77.5	89.0	94.1	96.1	97.1	101.6	113.7	118.2
77.5°	26.7	25.7	25.7	29.7	37.7	47.3	59.9	60.9	71.9	82.5	87.0
80°	9.1	10.1	13.6	18.6	25.2	33.7	40.7	41.8	50.8	57.9	59.4
82.5°	5.5	6.0	9.1	13.1	18.1	23.6	30.2	30.7	37.7	42.3	44.3
85°	2.5	3.0	5.0	8.0	11.6	15.6	16.1	16.1	15.6	16.1	15.1
87.5°	0.0	0.0	1.0	1.0	1.0	1.5	2.0	1.5	2.5	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°	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3	1521.3
2.5°	1507.7	1502.2	1485.1	1470.0	1465.5	1445.4	1415.7	1419.2	1397.6	1407.6	1397.1
5°	1487.1	1468.5	1424.7	1406.1	1357.3	1335.2	1320.1	1282.4	1264.8	1261.2	1246.1
7.5°	1434.3	1422.7	1367.9	1317.6	1265.8	1221.5	1164.6	1125.9	1098.2	1090.7	1068.6
10°	1392.5	1366.9	1290.9	1214.4	1140.5	1063.5	989.6	931.7	903.5	870.8	859.8
12.5°	1351.3	1312.5	1209.9	1111.8	1016.2	919.1	829.6	759.2	697.8	683.2	678.2
15°	1325.6	1258.2	1137.5	1019.2	883.4	756.6	667.1	620.8	583.1	567.5	578.5
17.5°	1291.9	1213.4	1068.0	910.6	761.2	644.5	569.5	540.8	527.2	528.7	524.2
20°	1249.7	1171.2	977.0	812.0	652.0	558.9	516.2	505.6	507.6	511.1	509.6
22.5°	1219.5	1119.9	911.1	711.4	563.5	511.6	494.0	486.5	493.0	496.0	493.5
25°	1196.3	1076.1	831.1	622.3	512.1	485.0	476.9	476.4	486.5	490.5	488.0
27.5°	1175.2	1035.3	751.6	554.4	477.9	464.3	461.8	467.9	474.4	478.4	482.0
30°	1162.6	1004.2	677.2	497.6	460.8	454.3	449.8	455.3	458.8	462.8	460.8
32.5°	1174.7	982.0	605.2	465.4	446.7	440.2	446.2	442.7	448.8	452.3	446.7
35°	1212.4	962.4	553.9	448.2	430.6	433.2	434.2	432.7	435.2	432.1	438.7
37.5°	1249.7	955.4	506.6	433.7	423.1	423.1	422.1	419.1	424.1	423.1	426.1
40°	1297.0	959.9	466.4	418.1	416.1	415.0	411.0	410.5	408.5	409.0	410.0
42.5°	1338.2	969.9	443.2	408.0	409.5	411.5	404.0	397.9	400.5	395.4	395.4
45°	1382.0	979.0	422.6	401.0	399.4	398.9	392.9	389.4	387.4	387.9	392.4
47.5°	1450.9	992.1	407.0	391.4	392.4	384.9	383.4	378.8	380.8	383.9	384.4
50°	1499.7	1019.8	394.9	380.3	383.9	378.8	369.8	367.8	367.8	372.8	371.8
52.5°	1533.9	1058.5	383.4	368.3	369.8	365.7	362.7	358.2	355.2	362.2	365.7
55°	1638.5	1122.9	380.3	358.2	357.7	353.7	348.1	343.6	342.1	343.1	350.1
57.5°	1628.5	1102.8	370.8	340.6	339.6	334.0	328.5	327.0	326.5	327.5	329.5
60°	1322.1	814.5	331.0	320.5	319.0	317.9	312.4	306.4	303.4	306.4	303.9
62.5°	874.9	545.3	291.8	296.3	297.3	294.8	285.8	279.7	280.7	284.2	278.7
65°	429.6	320.5	264.6	276.7	277.7	270.7	262.1	255.1	251.5	254.6	252.0
67.5°	245.5	245.0	242.5	255.1	254.6	247.5	233.9	227.9	221.9	222.9	221.4
70°	208.3	212.3	217.3	224.9	224.4	216.3	200.2	195.7	187.1	186.1	183.6
72.5°	164.0	171.0	182.1	187.7	183.1	173.1	162.5	154.9	147.4	142.9	144.4
75°	121.7	131.8	137.8	141.4	134.3	128.8	120.2	111.2	102.1	98.1	96.6
77.5°	88.5	91.6	97.1	99.6	95.1	89.5	84.5	75.5	66.9	61.4	59.9
80°	61.9	63.9	67.9	67.9	67.9	65.4	58.9	49.8	44.3	39.2	38.2
82.5°	43.3	45.3	49.3	47.3	46.8	43.8	39.7	32.7	26.7	23.1	22.1
85°	15.1	16.6	20.1	24.1	25.7	25.2	22.6	18.1	14.1	11.6	10.6
87.5°	3.5	3.5	4.0	3.5	3.5	4.0	3.5	3.5	3.5	2.5	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)