

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: P450662

Luminaire Tested: **GALN-SA1C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4921 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

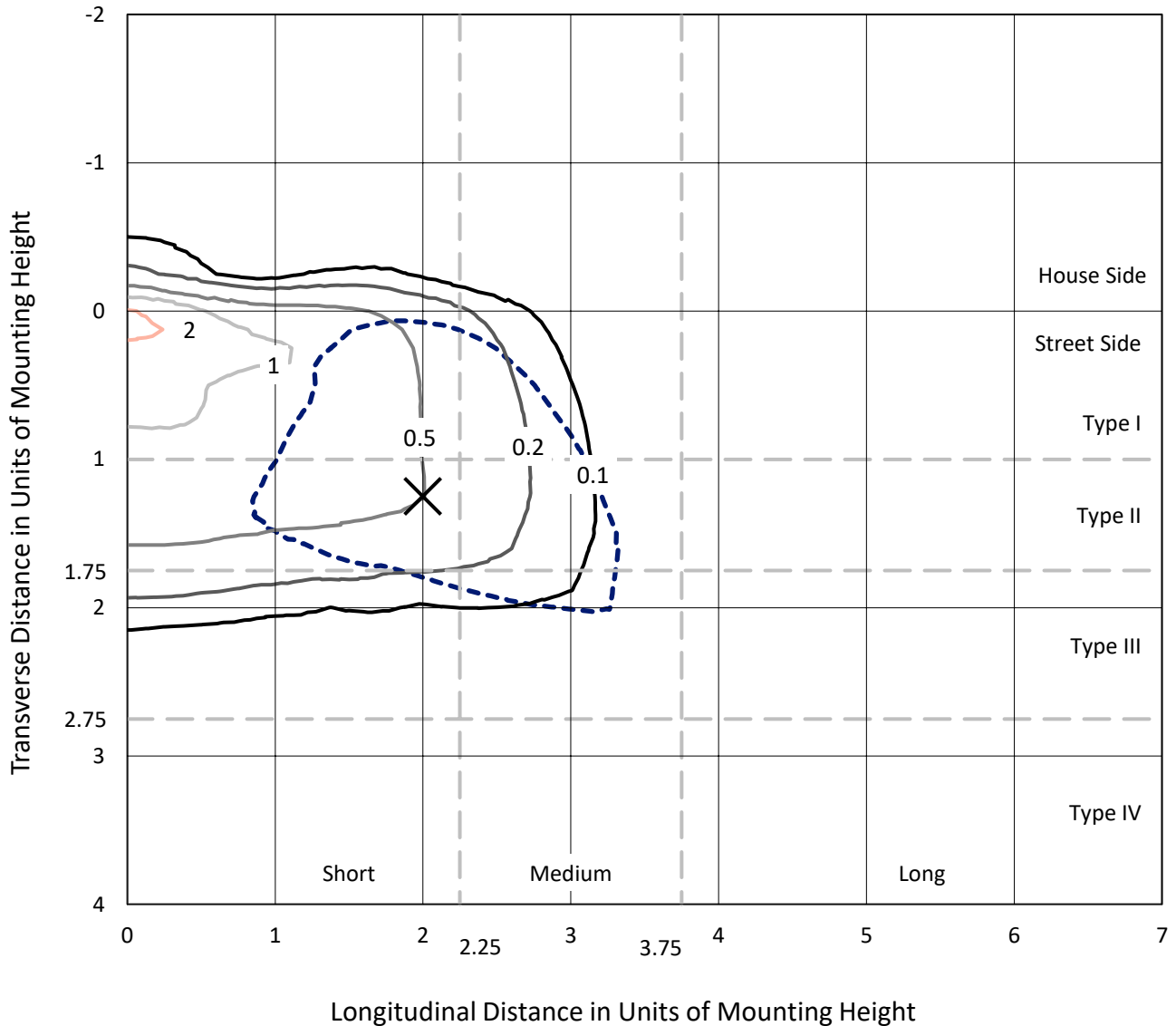
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

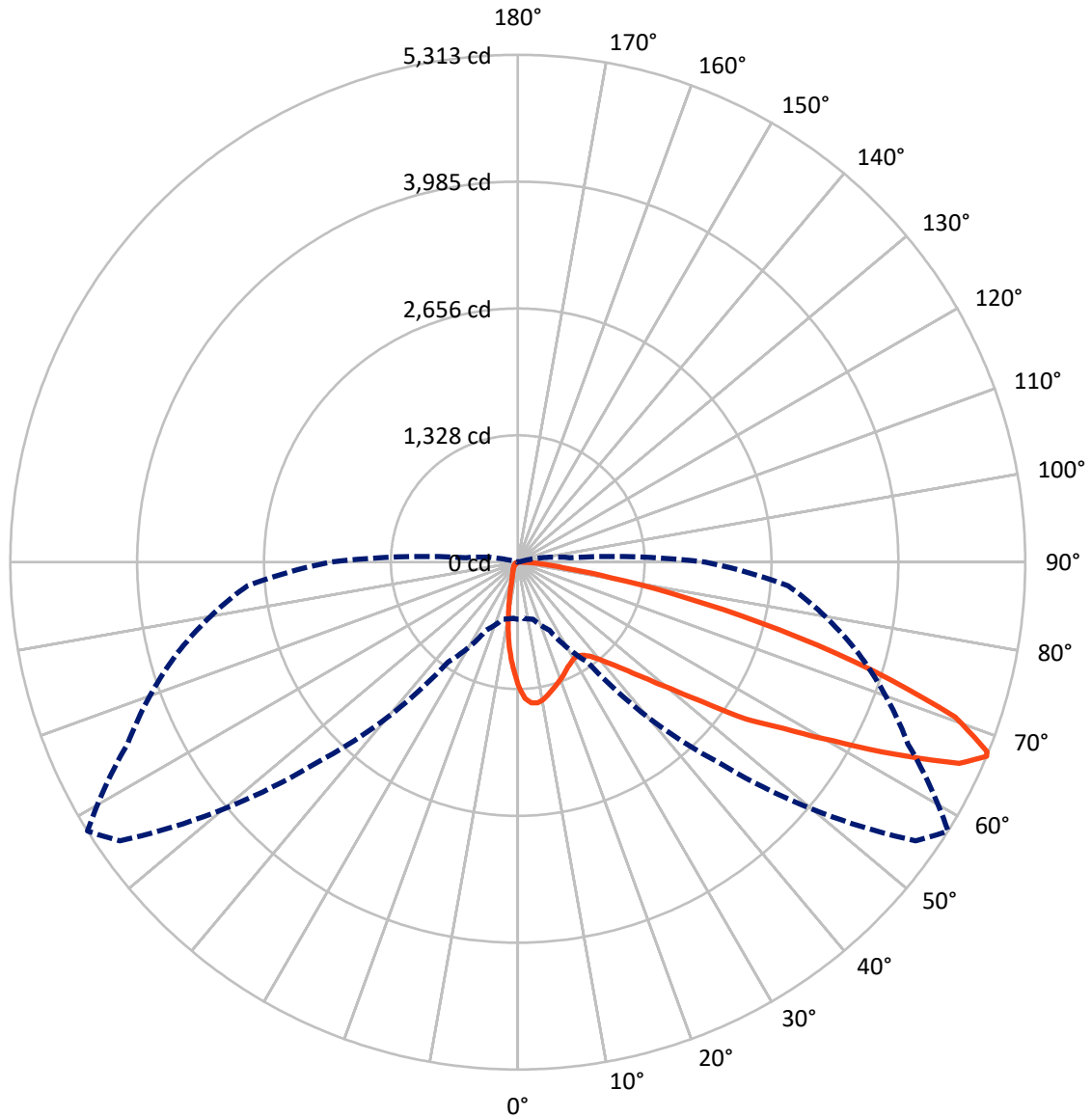
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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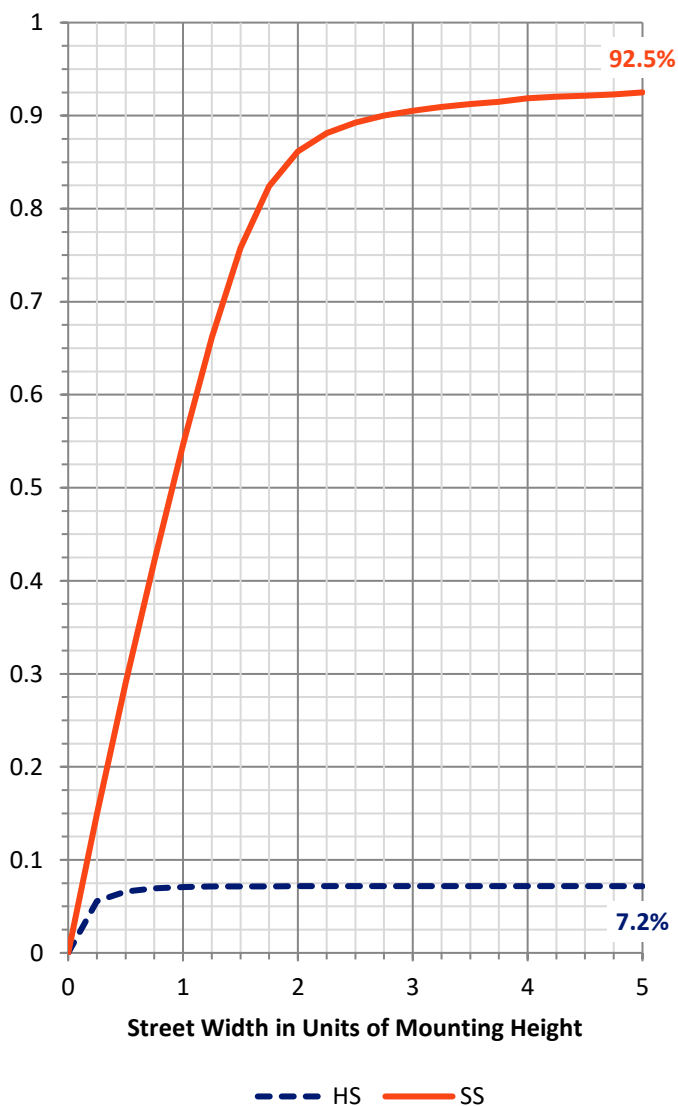
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.1	0.0	355.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4565.9	0.0	4565.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	4921.0	0.0	4921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	2.2
10°-20°	228.6	4.6
20°-30°	309.8	6.3
30°-40°	429.7	8.7
40°-50°	685.3	13.9
50°-60°	1184.6	24.1
60°-70°	1353.2	27.5
70°-80°	564.2	11.5
80°-90°	59.8	1.2
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°	4921.0	100.0
0°-180°	4921.0	100.0

Coefficient of Utilization



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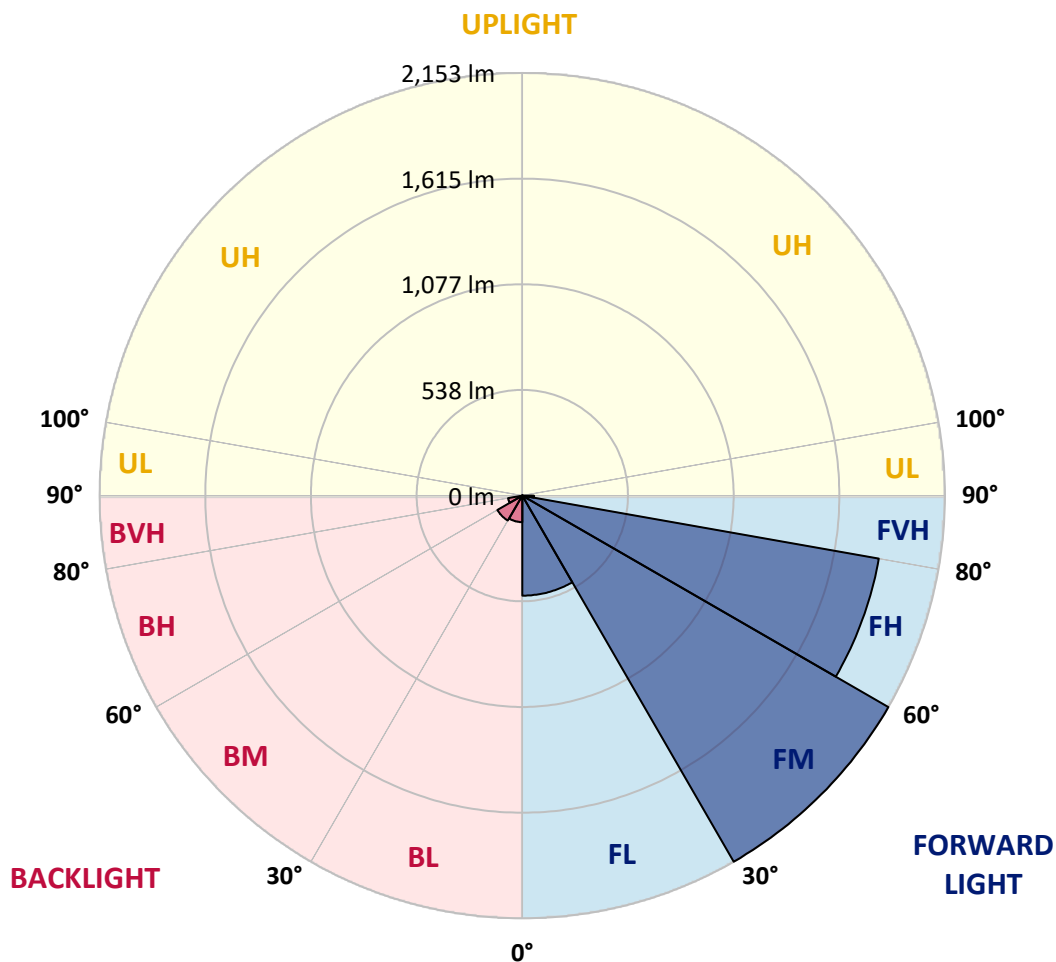
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.4	10.4			
FM (30°-60°)	2153.1	43.8			
FH (60°-80°)	1843.9	37.5			G2/5000
FVH (80°-90°)	59.4	1.2			G1/100
BL (0°-30°)	134.9	2.7	B1/500		
BM (30°-60°)	146.4	3.0	B0/220		
BH (60°-80°)	73.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1514.0	1516.3	1507.7	1500.8	1483.1	1464.0	1438.7	1425.2	1402.2	1362.4	1318.3
5°	1549.5	1552.5	1551.1	1549.5	1542.6	1524.2	1492.0	1480.1	1446.2	1381.5	1301.9
7.5°	1470.6	1481.4	1482.7	1495.6	1507.7	1509.4	1497.2	1488.3	1457.1	1381.1	1272.6
10°	1366.0	1373.2	1383.8	1398.6	1427.8	1452.2	1464.0	1462.7	1444.6	1370.9	1238.4
12.5°	1260.4	1264.4	1280.5	1305.8	1341.7	1383.1	1414.7	1420.9	1421.3	1358.8	1209.8
15°	1169.7	1168.0	1180.5	1209.8	1260.1	1312.1	1368.6	1378.5	1394.3	1346.9	1183.2
17.5°	1092.1	1100.6	1102.6	1134.8	1181.2	1248.6	1320.6	1338.1	1369.6	1336.7	1161.1
20°	1044.1	1048.7	1052.9	1071.0	1112.8	1183.8	1275.6	1299.6	1346.6	1327.5	1136.5
22.5°	1029.9	1032.9	1029.3	1034.9	1064.5	1127.6	1226.6	1258.5	1324.6	1319.0	1116.4
25°	1040.8	1043.7	1035.2	1028.6	1038.8	1081.9	1179.2	1218.0	1306.8	1317.3	1101.3
27.5°	1067.1	1072.7	1060.8	1049.0	1043.1	1057.2	1142.1	1187.1	1294.6	1325.2	1094.4
30°	1108.2	1111.5	1102.6	1088.1	1074.7	1060.5	1122.7	1165.7	1291.4	1343.6	1093.7
32.5°	1152.9	1159.8	1154.9	1145.4	1127.9	1094.4	1128.3	1166.4	1299.3	1370.3	1101.9
35°	1208.2	1216.1	1220.7	1218.7	1196.3	1154.6	1163.8	1196.0	1320.3	1419.3	1124.3
37.5°	1262.4	1269.3	1295.3	1304.2	1284.5	1245.0	1232.8	1254.2	1366.7	1483.4	1164.8
40°	1324.6	1333.8	1370.3	1404.2	1394.6	1353.2	1330.8	1348.6	1437.7	1580.1	1241.4
42.5°	1384.1	1400.5	1456.1	1516.0	1524.8	1478.5	1463.7	1469.6	1542.9	1719.2	1348.2
45°	1468.6	1484.1	1555.7	1637.0	1678.7	1642.6	1627.4	1626.4	1687.3	1914.8	1521.5
47.5°	1590.6	1604.4	1688.9	1769.2	1843.5	1848.4	1819.8	1829.7	1868.8	2143.7	1734.0
50°	1740.2	1772.8	1828.4	1911.9	2011.2	2091.4	2100.3	2087.2	2120.7	2408.8	1989.2
52.5°	1957.6	1970.1	2021.1	2089.8	2206.2	2342.3	2447.9	2429.8	2419.3	2661.3	2247.0
55°	2119.7	2136.5	2215.7	2310.1	2480.8	2660.3	2889.2	2895.4	2762.6	2904.0	2499.2
57.5°	2070.7	2096.4	2216.4	2406.1	2781.3	3109.5	3279.9	3284.1	3080.3	3139.8	2784.0
60°	1819.1	1831.3	2003.3	2256.5	2807.0	3596.2	3834.0	3799.4	3403.5	3403.5	3035.5
62.5°	1290.0	1309.1	1448.5	1821.1	2535.0	3765.2	4497.6	4426.2	3848.8	3655.7	3185.5
65°	824.4	806.0	898.4	1149.6	1888.5	3515.6	5075.3	5079.6	4267.7	3756.7	3103.6
67°	597.2	589.9	616.6	785.9	1280.5	2955.3	5087.5	5312.8	4508.4	3692.9	2841.8
67.5°	546.2	551.8	571.2	709.0	1163.4	2689.3	5032.3	5298.9	4562.7	3654.4	2747.1
70°	414.0	404.5	425.5	501.5	697.5	1696.5	4328.9	4859.9	4495.3	3272.6	2195.0
72.5°	304.5	303.5	332.8	410.1	537.0	903.7	3249.6	3896.8	3672.5	2492.0	1382.1
75°	205.5	214.7	261.4	342.7	486.7	586.0	2215.4	2827.0	2549.5	1415.0	564.9
77.5°	117.1	117.7	168.4	275.2	437.0	471.6	1312.7	1801.1	1349.6	470.6	167.7
80°	50.6	55.6	83.5	199.9	362.4	417.6	752.7	989.8	545.9	99.6	54.3
82.5°	18.7	22.0	36.8	123.0	264.4	344.0	454.8	472.5	185.1	35.2	33.9
85°	0.0	0.7	13.5	57.5	137.8	153.6	303.8	280.2	81.9	16.8	22.0
87.5°	0.0	0.0	0.0	5.9	18.1	57.2	94.4	105.2	19.7	5.9	5.3
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°	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5	1304.5
2.5°	1294.6	1273.3	1219.7	1166.1	1126.3	1093.1	1043.1	1015.8	1001.3	979.9	981.3
5°	1262.1	1218.7	1124.3	1026.6	947.7	870.8	778.7	741.5	710.3	692.5	680.7
7.5°	1213.8	1149.6	1009.9	879.6	758.3	623.8	522.9	455.4	410.1	393.3	377.2
10°	1160.8	1075.6	893.8	713.3	544.9	406.1	320.6	258.8	236.8	216.4	218.4
12.5°	1111.8	1008.2	787.2	563.0	381.8	258.1	201.3	175.9	168.7	166.4	166.4
15°	1071.7	943.8	672.8	423.2	261.8	185.5	161.1	154.2	151.6	150.9	150.9
17.5°	1028.9	882.6	569.6	312.7	190.4	155.2	147.0	142.4	141.4	140.7	140.7
20°	990.8	821.1	471.6	232.8	153.9	139.8	134.5	131.5	130.5	129.9	130.2
22.5°	954.6	766.5	379.5	175.9	135.5	127.3	122.0	119.0	117.1	115.4	115.8
25°	922.4	713.9	305.2	144.0	122.0	114.8	109.5	105.2	101.0	99.0	98.7
27.5°	899.7	667.9	237.8	123.3	109.8	101.9	95.4	90.1	84.5	81.6	80.9
30°	881.0	621.2	188.1	108.8	97.7	90.1	81.9	74.3	68.4	65.4	64.1
32.5°	868.8	576.8	148.3	97.0	87.5	78.3	69.1	61.5	54.9	52.0	51.3
35°	866.8	539.6	121.3	87.1	78.3	68.4	58.9	50.6	45.1	42.1	41.4
37.5°	881.0	511.0	101.6	79.3	70.7	59.8	49.3	41.8	36.8	34.5	34.2
40°	918.8	492.9	88.1	72.7	63.8	52.0	42.1	35.5	30.6	28.3	28.3
42.5°	990.8	493.6	79.3	66.4	56.9	44.4	35.8	29.6	25.3	23.3	22.7
45°	1103.3	516.0	71.7	60.2	50.3	38.5	30.6	24.3	20.1	18.4	18.4
47.5°	1253.9	560.3	65.1	53.9	44.4	32.9	26.0	19.7	16.1	14.5	14.5
50°	1450.8	631.7	59.5	48.7	39.5	28.3	21.0	16.1	12.5	11.2	10.9
52.5°	1656.7	719.8	52.9	44.1	33.9	24.0	17.1	12.5	9.5	8.5	8.2
55°	1883.9	806.0	46.7	39.5	27.6	20.1	13.5	9.9	6.9	5.9	5.9
57.5°	2113.1	890.5	39.1	32.9	21.7	14.8	10.5	7.2	4.6	3.6	3.6
60°	2307.1	917.8	33.2	26.6	16.4	10.5	7.6	4.6	2.6	1.6	1.6
62.5°	2333.8	825.7	28.0	20.4	11.8	7.2	3.9	2.6	1.0	0.7	0.7
65°	2189.1	670.8	23.3	15.5	7.9	3.6	1.6	1.0	0.3	0.0	0.0
67°	1961.5	543.9	19.1	11.5	5.6	2.3	1.0	0.3	0.0	0.0	0.0
67.5°	1903.3	518.6	18.4	10.9	4.9	2.0	0.7	0.3	0.0	0.0	0.0
70°	1493.6	388.4	13.2	6.6	3.0	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	928.3	219.7	9.5	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
75°	350.9	76.9	6.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	109.2	29.3	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.8	11.2	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	4.6	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.7	0.3	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)