

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: P526282

Luminaire Tested: **GALN-SA1B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081 lumens
Efficiency: N/A
Efficacy: 92.8 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

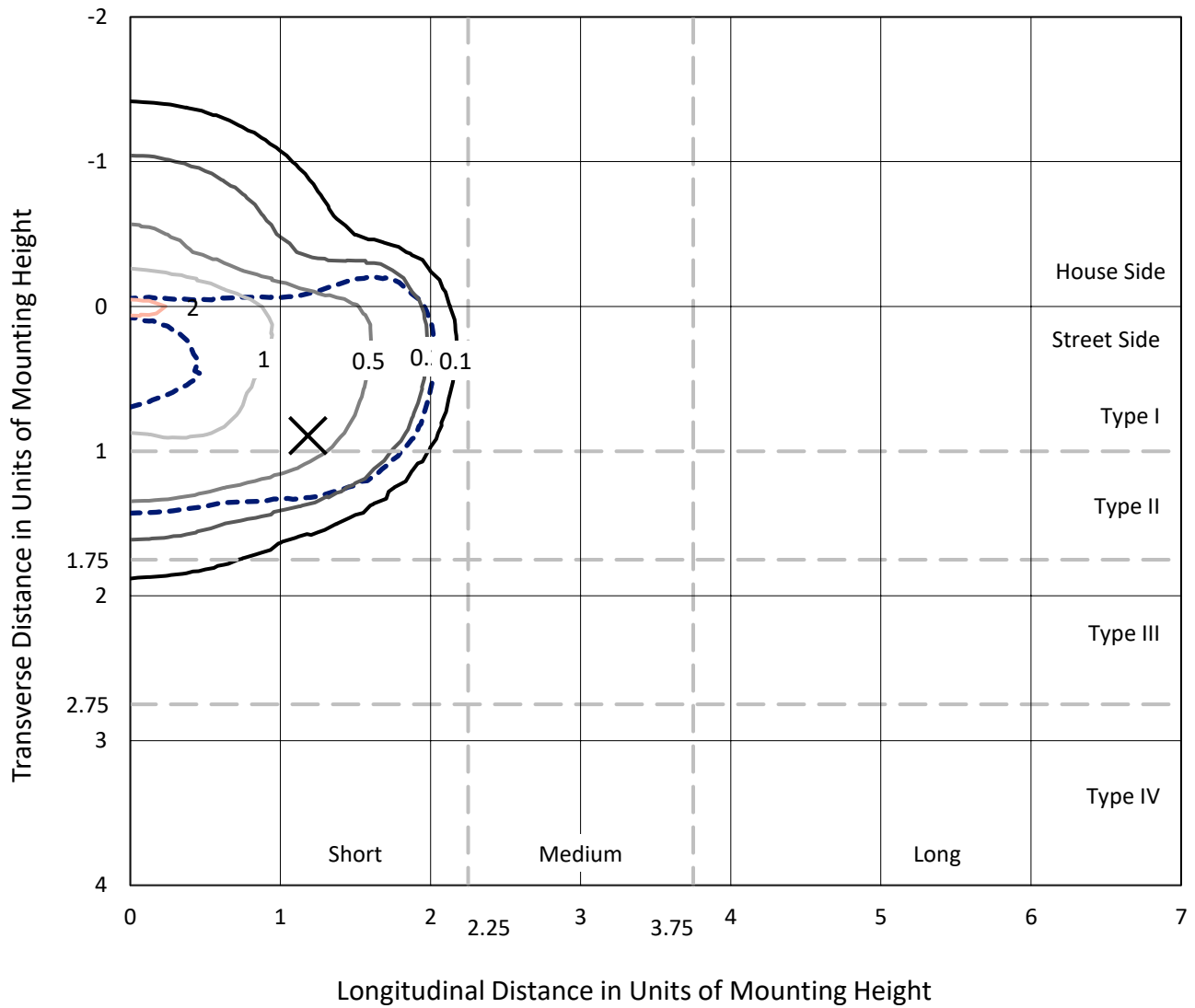
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

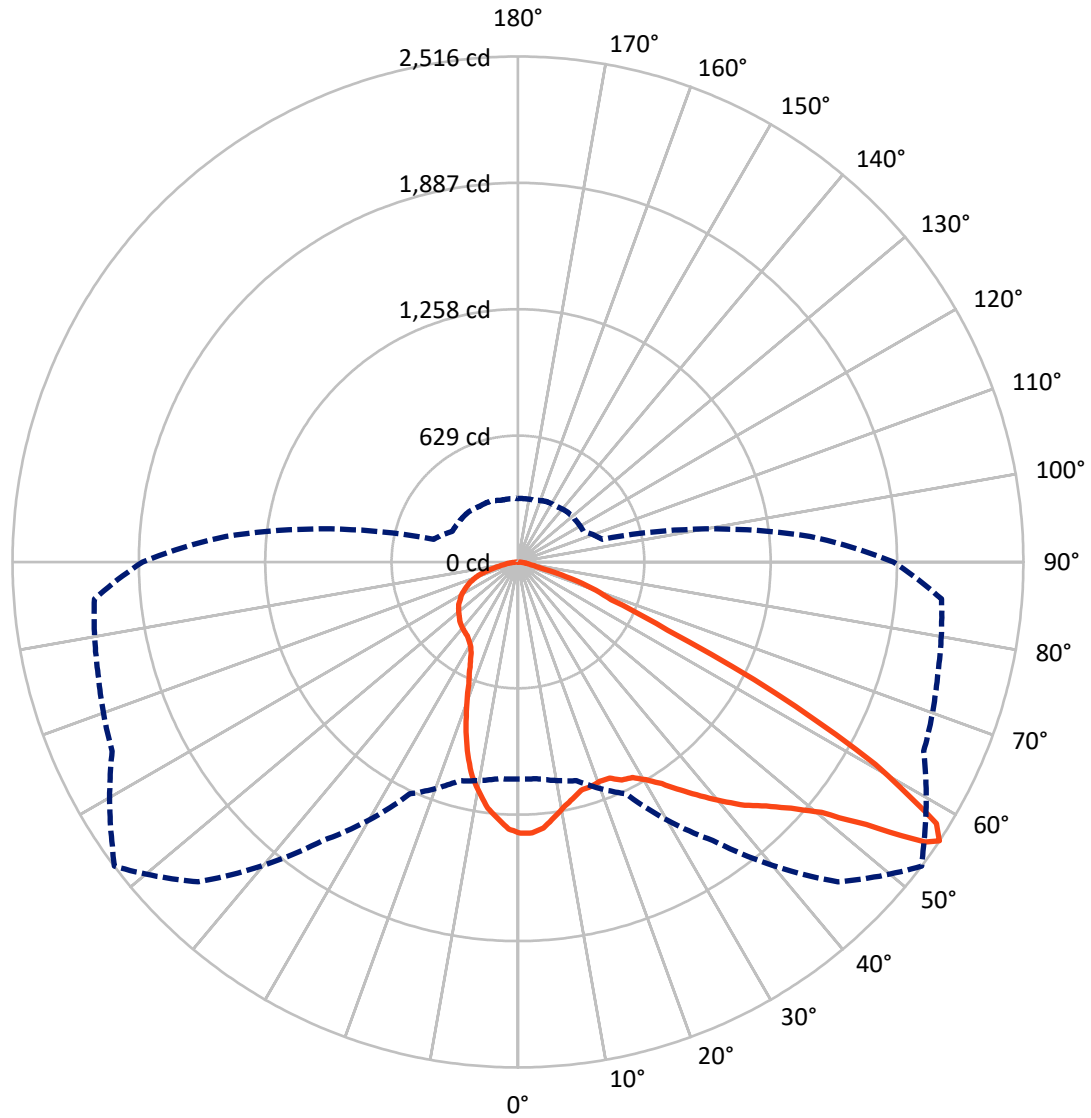
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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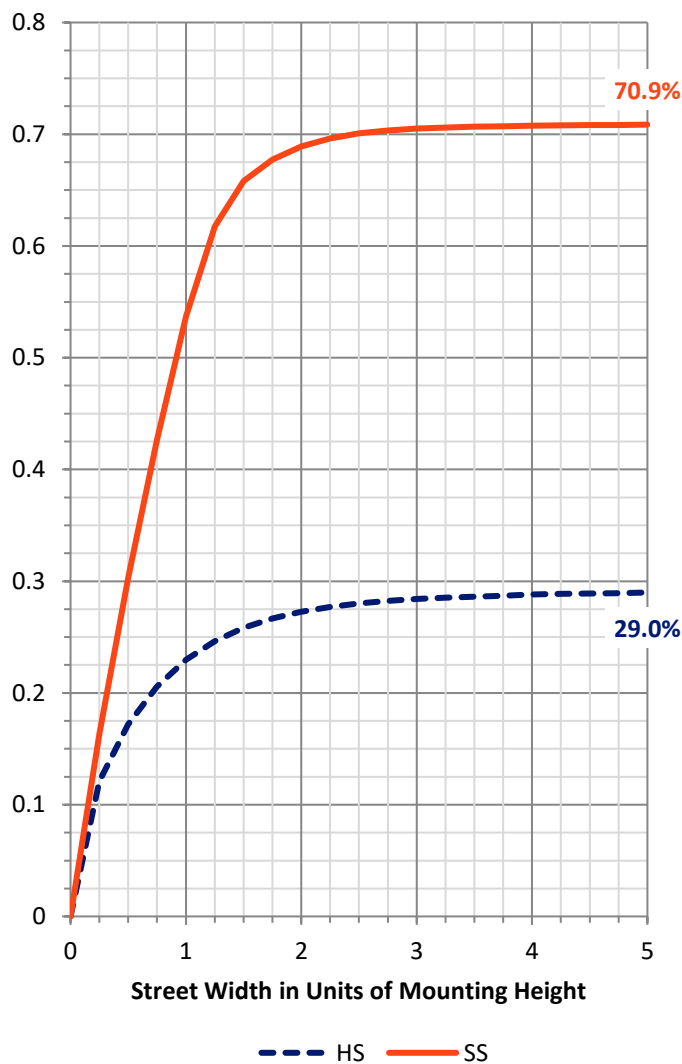
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.9	0.0	1190.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	2890.1	0.0	2890.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	4081.0	0.0	4081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	2.9
10°-20°	298.5	7.3
20°-30°	440.2	10.8
30°-40°	629.0	15.4
40°-50°	865.7	21.2
50°-60°	1023.0	25.1
60°-70°	545.2	13.4
70°-80°	138.3	3.4
80°-90°	21.6	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°	4081.0	100.0
0°-180°	4081.0	100.0

Coefficient of Utilization



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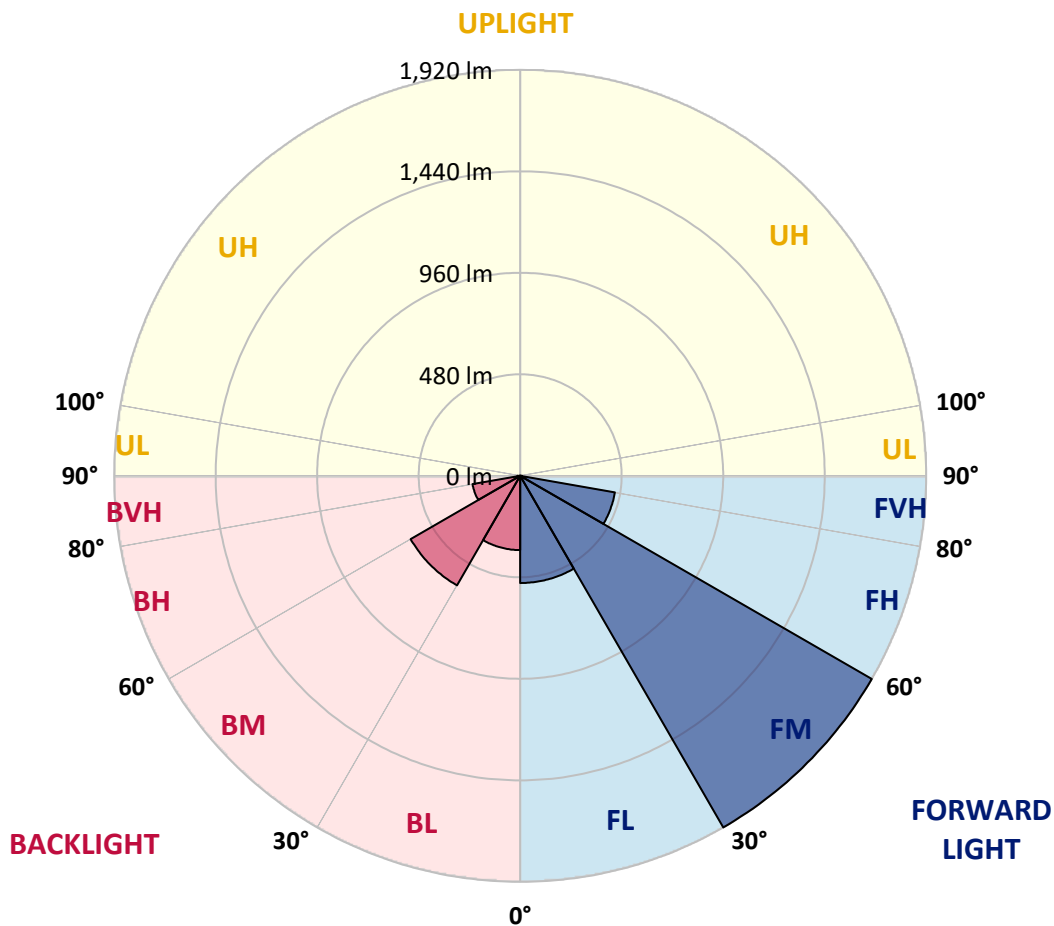
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.0	12.4			
FM (30°-60°)	1919.6	47.0			
FH (60°-80°)	454.8	11.1			G0/660
FVH (80°-90°)	8.7	0.2			G0/10
BL (0°-30°)	351.3	8.6	B1/500		
BM (30°-60°)	598.0	14.7	B1/1000		
BH (60°-80°)	228.7	5.6	B1/500		G1/500
BVH (80°-90°)	12.9	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°	53°	55°	65°	75°	85°
0°	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1333.4	1321.9	1328.7	1326.1	1347.5	1353.8	1350.7	1353.3	1365.3	1359.6	1347.5
5°	1246.0	1262.2	1265.3	1273.2	1285.8	1310.4	1329.7	1335.0	1340.7	1367.4	1364.8
7.5°	1166.4	1177.4	1171.6	1194.7	1221.9	1261.7	1285.2	1289.4	1342.3	1357.0	1368.0
10°	1116.1	1105.1	1131.3	1137.6	1168.5	1214.0	1242.3	1259.6	1307.8	1365.9	1372.7
12.5°	1069.5	1065.9	1081.6	1099.4	1133.9	1181.1	1209.9	1216.7	1291.0	1352.2	1384.2
15°	1035.0	1030.8	1046.5	1059.6	1099.9	1141.8	1178.4	1197.8	1272.7	1344.4	1374.2
17.5°	1007.8	1007.3	1016.2	1039.7	1081.1	1116.1	1175.3	1176.3	1263.3	1356.4	1382.6
20°	1006.2	1005.7	1007.3	1033.4	1071.1	1114.0	1165.4	1174.8	1263.3	1348.1	1383.1
22.5°	1019.3	1010.9	1020.3	1037.1	1064.3	1117.7	1169.0	1190.0	1293.6	1389.4	1406.7
25°	1040.2	1042.3	1047.6	1053.3	1069.0	1126.1	1201.5	1218.8	1329.2	1425.0	1439.2
27.5°	1078.4	1077.4	1079.5	1082.6	1096.2	1133.9	1214.6	1259.1	1403.6	1488.4	1474.2
30°	1134.5	1130.8	1139.2	1150.2	1137.6	1159.1	1258.0	1291.5	1472.7	1552.2	1513.5
32.5°	1185.2	1198.9	1214.6	1219.3	1204.1	1208.3	1315.6	1349.6	1530.2	1630.8	1561.7
35°	1248.6	1259.6	1280.5	1295.2	1292.6	1280.0	1394.1	1439.2	1613.5	1688.3	1612.4
37.5°	1310.4	1323.5	1358.0	1401.5	1377.4	1371.6	1477.9	1515.1	1639.1	1719.2	1649.6
40°	1409.8	1409.3	1469.0	1491.5	1513.0	1503.0	1564.8	1577.4	1652.7	1712.4	1650.7
42.5°	1526.6	1519.3	1580.0	1615.1	1642.8	1643.8	1655.4	1651.2	1659.0	1677.9	1639.7
45°	1637.6	1653.3	1714.5	1777.3	1805.1	1808.2	1731.8	1723.9	1670.0	1667.9	1618.7
47.5°	1773.2	1776.8	1827.1	1909.8	1974.2	1952.2	1830.7	1813.5	1718.2	1734.4	1653.8
50°	1781.0	1808.2	1853.3	1950.6	2148.5	2142.8	1959.0	1926.6	1795.7	1828.7	1751.7
52.5°	1616.6	1610.3	1663.7	1822.9	2135.4	2332.3	2171.6	2094.1	1962.1	1937.0	1910.3
55°	1231.8	1246.5	1293.6	1454.3	1854.3	2334.9	2461.1	2397.7	2140.1	2097.2	2066.3
56°	1080.5	1082.6	1127.1	1273.7	1692.0	2251.7	2516.0	2464.7	2228.6	2163.2	2116.1
57.5°	895.7	883.7	906.7	986.8	1428.2	2075.8	2455.8	2506.1	2332.3	2234.4	2168.9
60°	705.2	702.6	693.1	707.8	902.5	1563.8	2044.3	2157.4	2321.8	2167.4	2077.3
62.5°	575.9	562.8	581.6	602.6	627.2	970.1	1436.5	1503.0	1843.3	1730.2	1560.6
65°	446.6	440.3	463.8	531.9	546.6	616.2	818.3	869.6	1088.4	1069.0	941.3
67.5°	307.3	308.4	328.8	432.4	506.8	500.5	501.0	527.7	568.0	422.0	367.5
70°	194.7	194.2	205.2	278.5	407.8	412.0	391.1	383.2	363.3	219.9	233.0
72.5°	125.1	121.5	127.2	153.9	211.0	244.0	251.3	256.0	210.5	172.8	187.4
75°	70.7	67.0	64.9	71.7	83.2	96.3	105.8	108.9	122.0	130.9	138.7
77.5°	21.5	19.4	23.6	31.4	41.4	55.5	67.5	69.6	82.2	92.7	100.5
80°	9.4	10.5	14.7	20.9	29.3	39.3	47.6	50.8	59.2	67.0	69.1
82.5°	5.8	6.3	9.9	14.1	20.4	27.7	34.0	35.1	43.5	49.7	51.3
85°	2.1	2.6	5.2	8.4	13.1	17.8	17.8	19.4	17.8	17.8	19.4
87.5°	0.0	0.0	0.5	1.0	1.0	1.6	2.1	2.1	2.6	3.1	3.7
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°	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2	1350.2
2.5°	1353.8	1351.2	1347.0	1331.8	1330.3	1325.6	1299.4	1295.2	1299.4	1286.8	1287.9
5°	1351.2	1359.1	1327.6	1312.5	1284.2	1263.8	1240.2	1228.2	1206.7	1193.1	1208.3
7.5°	1362.7	1359.6	1320.3	1287.3	1244.9	1193.1	1151.7	1128.2	1090.5	1080.0	1087.9
10°	1358.5	1341.8	1295.7	1252.3	1172.2	1126.6	1059.6	994.7	959.1	940.8	938.1
12.5°	1352.8	1348.1	1271.1	1196.2	1112.0	1016.2	921.9	860.7	802.6	777.4	781.1
15°	1359.6	1319.8	1225.0	1130.3	1018.2	892.6	791.0	712.0	671.7	655.4	655.4
17.5°	1356.4	1306.2	1203.0	1056.5	914.6	765.9	654.4	606.8	590.0	590.0	594.7
20°	1358.0	1315.1	1158.5	982.6	792.1	645.0	563.8	546.6	553.9	556.5	559.1
22.5°	1366.9	1285.8	1115.1	901.5	678.5	551.8	512.0	512.5	525.6	539.7	537.1
25°	1377.9	1274.2	1062.2	820.9	591.6	506.2	493.7	492.1	502.1	509.4	510.4
27.5°	1368.5	1254.4	1008.3	720.4	520.4	475.9	473.3	474.3	477.4	492.1	487.4
30°	1399.4	1260.1	940.8	636.1	481.1	465.9	462.8	461.2	465.9	470.1	466.5
32.5°	1437.6	1239.7	890.5	554.9	461.7	458.6	452.3	450.2	452.8	448.7	450.7
35°	1454.3	1236.0	825.1	496.8	446.6	443.9	440.3	439.8	440.3	436.6	433.5
37.5°	1463.8	1253.3	750.2	470.1	437.1	439.8	431.4	430.3	420.9	423.0	424.6
40°	1480.0	1226.6	689.5	444.5	431.4	426.1	418.8	417.2	411.0	407.3	411.0
42.5°	1456.4	1218.8	629.8	433.5	423.0	417.2	412.0	403.1	401.0	397.9	395.8
45°	1437.6	1173.7	576.4	419.9	413.1	409.9	400.0	390.5	382.7	385.8	381.1
47.5°	1451.7	1158.0	523.5	408.3	399.4	395.8	385.8	378.5	370.7	367.0	365.9
50°	1508.3	1187.3	479.0	400.0	387.9	385.8	372.7	364.4	357.0	354.4	355.5
52.5°	1643.3	1267.4	448.7	382.7	376.9	367.5	360.2	349.7	345.0	336.6	341.9
55°	1814.5	1397.8	440.8	366.5	363.3	354.9	345.0	337.1	328.2	321.4	319.9
56°	1869.5	1460.1	434.5	360.2	354.9	350.2	337.1	332.4	318.3	316.7	315.7
57.5°	1914.0	1515.1	435.6	348.1	342.9	338.7	330.9	319.3	309.9	304.2	306.8
60°	1813.5	1418.2	415.7	329.8	328.8	320.9	309.9	304.7	293.2	286.4	284.8
62.5°	1348.1	962.8	337.1	306.3	305.7	297.4	284.8	279.0	276.9	267.5	267.5
65°	776.4	603.6	291.6	286.9	282.7	274.3	261.8	257.0	251.8	248.7	246.1
67.5°	331.4	313.1	264.9	264.4	259.7	249.2	236.6	229.3	222.5	216.2	219.4
70°	240.3	244.0	239.2	236.6	230.9	217.8	206.8	197.9	187.4	183.2	186.4
72.5°	190.6	198.4	205.2	205.7	198.9	183.8	171.7	159.7	148.2	142.4	145.0
75°	144.5	149.7	156.5	158.1	148.2	137.7	126.2	113.6	104.7	97.9	98.9
77.5°	104.2	103.1	109.4	108.4	103.7	96.3	85.9	74.3	64.4	58.1	58.6
80°	71.2	72.8	76.4	75.9	70.2	65.4	57.6	48.2	40.8	35.6	34.6
82.5°	49.7	52.4	55.5	52.9	48.2	43.5	37.7	30.9	25.1	20.9	19.9
85°	17.8	20.4	23.6	25.1	26.7	25.7	21.5	17.3	12.6	10.5	9.9
87.5°	3.7	4.2	4.7	4.7	4.7	4.2	3.7	3.7	3.1	1.6	1.6
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)