

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: P526686

Luminaire Tested: **GALN-SA1C-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4565 lumens
Efficiency: N/A
Efficacy: 80.1 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

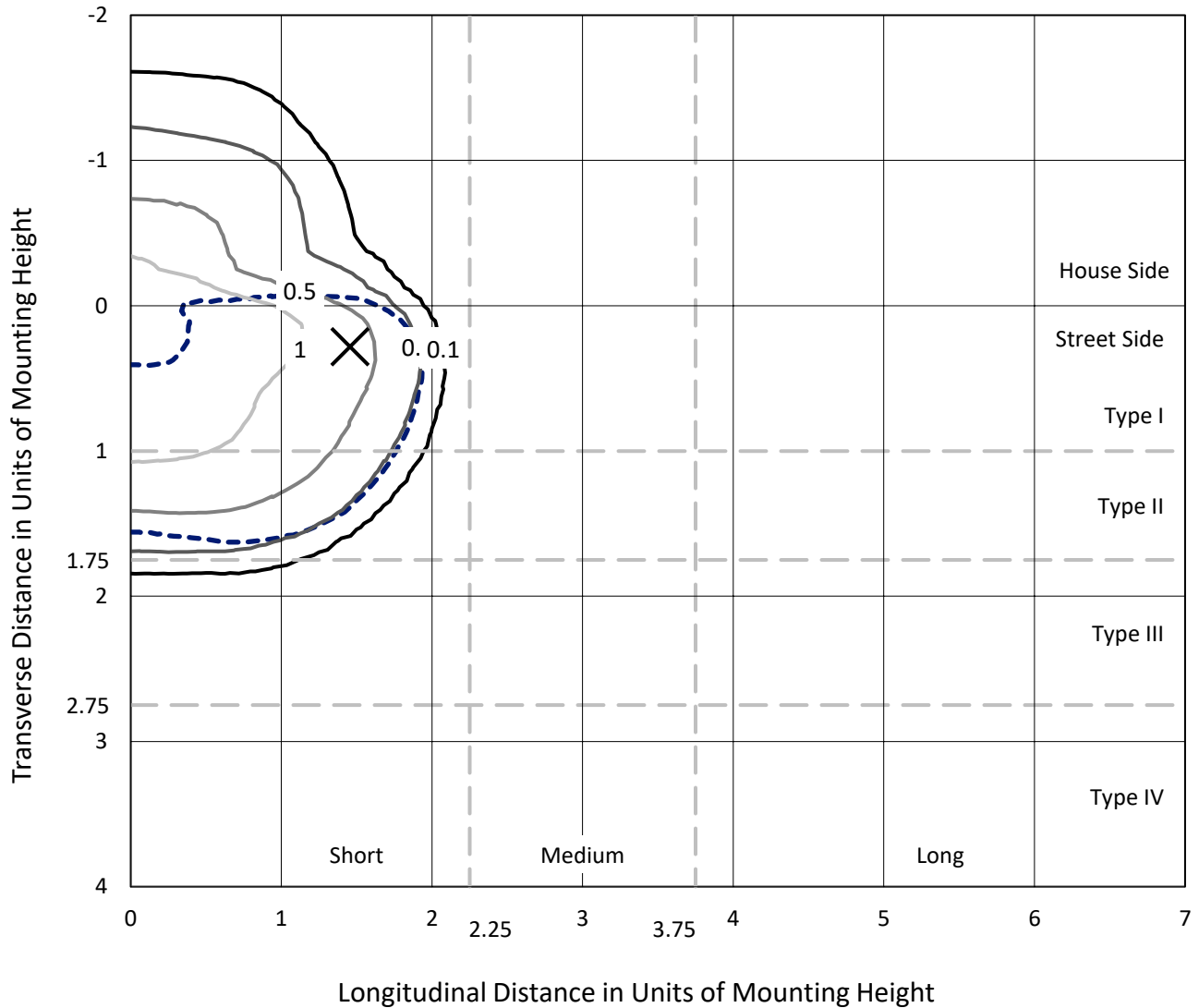
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526686
 CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

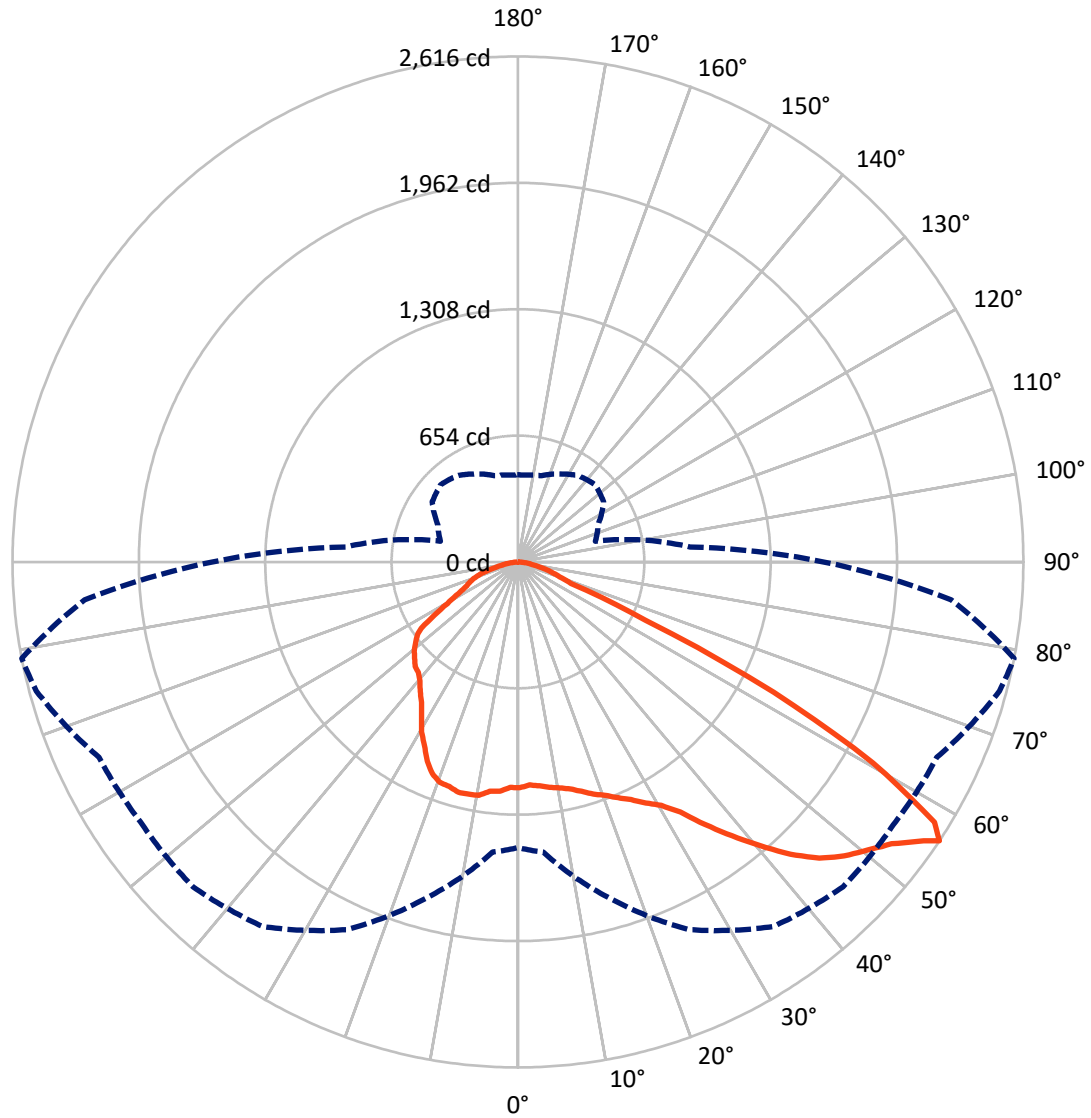
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

REPORT NUMBER: P526686
CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P526686
 CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

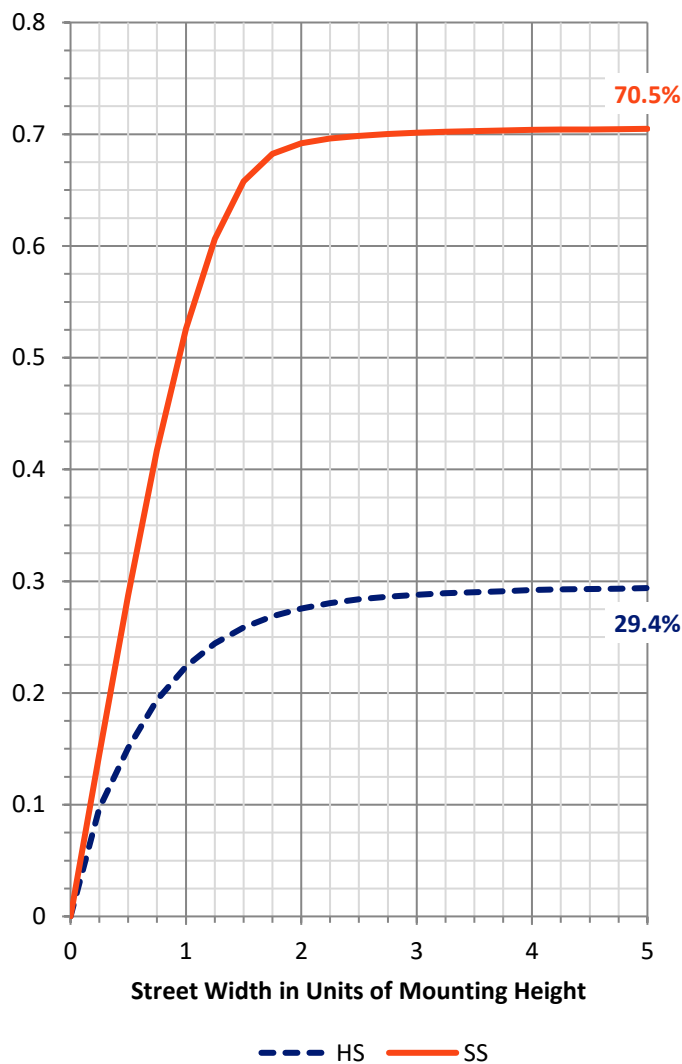
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.2	0.0	1348.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3216.9	0.0	3216.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	4565.0	0.0	4565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	2.3
10°-20°	290.6	6.4
20°-30°	497.2	10.9
30°-40°	762.0	16.7
40°-50°	1029.9	22.6
50°-60°	1182.8	25.9
60°-70°	539.2	11.8
70°-80°	132.9	2.9
80°-90°	24.2	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°	4565.0	100.0
0°-180°	4565.0	100.0



REPORT NUMBER: P526686

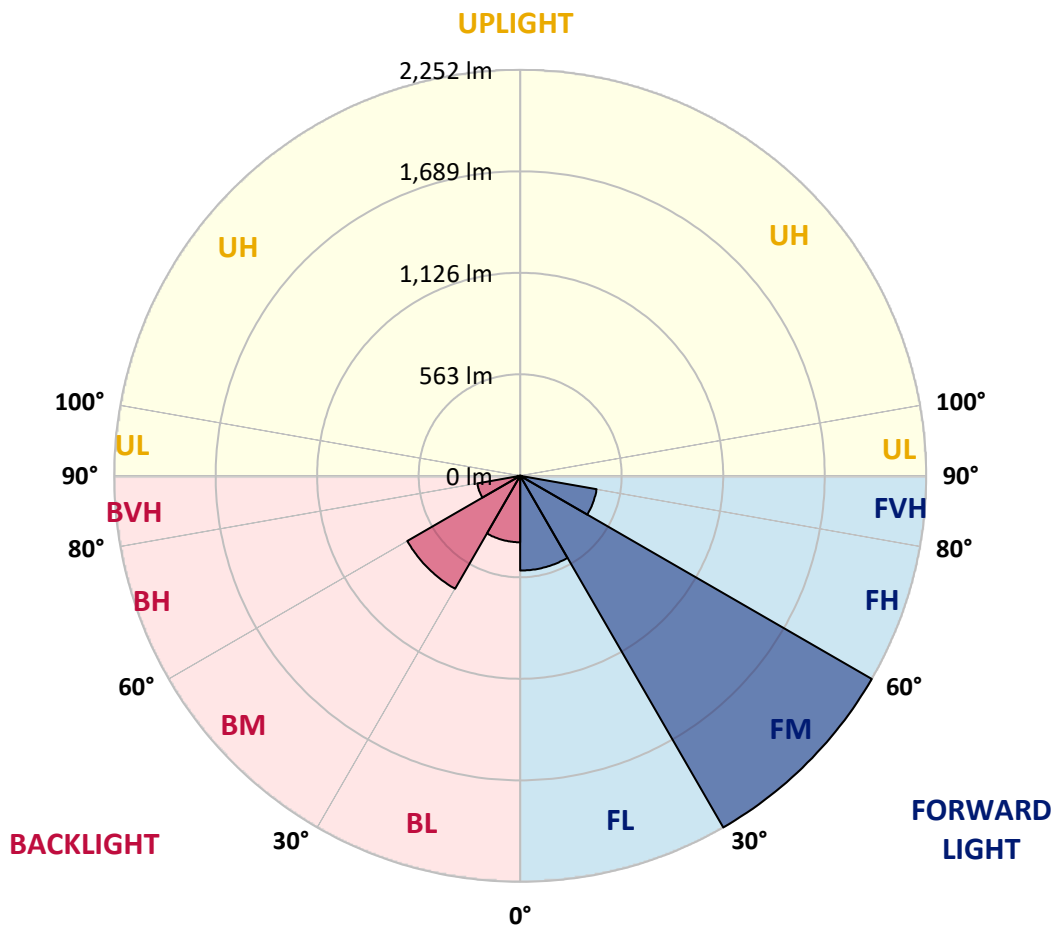
CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.2	11.5			
FM (30°-60°)	2251.6	49.3			
FH (60°-80°)	430.4	9.4			G0/660
FVH (80°-90°)	9.6	0.2			G0/10
BL (0°-30°)	368.8	8.1	B1/500		
BM (30°-60°)	723.1	15.8	B1/1000		
BH (60°-80°)	241.7	5.3	B1/500		G1/500
BVH (80°-90°)	14.5	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





REPORT NUMBER: P526686

CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1111.1	1108.3	1115.1	1120.2	1126.5	1134.5	1138.4	1140.7	1160.6	1155.5	1170.8
5°	1087.3	1079.9	1085.0	1089.0	1099.8	1109.4	1120.2	1137.3	1155.5	1163.5	1182.2
7.5°	1066.2	1062.2	1061.1	1063.9	1078.7	1091.2	1110.0	1135.0	1164.6	1177.7	1188.5
10°	1031.5	1025.8	1034.4	1053.1	1057.1	1083.3	1104.9	1140.7	1166.3	1189.0	1220.9
12.5°	1016.2	1010.5	1012.2	1023.0	1050.9	1075.9	1101.5	1141.8	1195.9	1205.0	1247.6
15°	1040.6	1034.9	1036.6	1033.8	1060.5	1073.6	1114.0	1164.6	1216.3	1231.7	1277.2
17.5°	1096.4	1096.9	1089.5	1083.3	1077.0	1104.9	1132.7	1178.2	1224.3	1263.0	1297.1
20°	1202.7	1183.9	1169.1	1133.9	1124.2	1136.2	1171.4	1215.2	1256.7	1288.6	1327.2
22.5°	1284.6	1286.3	1265.2	1207.2	1186.2	1191.3	1221.5	1257.3	1302.8	1325.5	1369.9
25°	1403.4	1391.5	1368.7	1322.7	1275.5	1279.5	1301.6	1334.0	1346.6	1362.5	1410.8
27.5°	1512.0	1515.4	1470.5	1427.3	1368.7	1357.4	1397.2	1402.9	1381.8	1412.0	1428.4
30°	1622.4	1619.5	1589.9	1539.3	1481.9	1484.2	1501.8	1473.9	1444.9	1461.4	1472.8
32.5°	1736.7	1704.2	1703.1	1657.6	1613.8	1592.8	1571.2	1584.8	1539.9	1543.3	1532.5
35°	1828.2	1832.8	1806.6	1774.2	1752.6	1715.6	1656.5	1680.9	1672.4	1668.4	1621.8
37.5°	1894.7	1877.1	1890.2	1879.4	1858.9	1812.8	1751.4	1774.8	1778.7	1798.1	1744.0
40°	1949.3	1941.9	1976.6	1982.3	1968.1	1868.6	1758.3	1827.6	1887.3	1929.4	1865.2
42.5°	1975.5	1991.4	2027.8	2071.6	2039.7	1933.4	1793.5	1868.0	2001.1	2067.6	1980.0
45°	2010.7	1990.3	2044.3	2124.5	2125.0	1988.0	1827.6	1922.6	2089.8	2186.5	2058.5
47.5°	1974.9	1985.1	2040.9	2142.7	2168.8	2045.4	1919.8	1999.9	2187.6	2273.5	2131.3
50°	1894.7	1915.2	2017.0	2122.8	2201.8	2106.3	2025.5	2083.5	2278.0	2343.4	2143.2
52.5°	1811.1	1822.5	1981.7	2138.1	2216.6	2184.7	2167.1	2199.0	2388.3	2422.4	2158.0
55°	1583.7	1637.7	1865.2	2131.3	2288.8	2326.3	2312.7	2359.3	2513.4	2547.5	2238.8
56°	1478.5	1506.9	1795.2	2099.4	2303.0	2378.1	2371.3	2392.3	2580.0	2615.8	2251.3
57.5°	1284.0	1286.3	1530.8	1958.4	2249.6	2393.4	2386.6	2403.1	2566.9	2542.4	2141.5
60°	803.5	838.8	1041.8	1506.3	1912.9	2220.6	2259.2	2126.7	2164.3	2112.5	1666.1
62.5°	416.3	411.1	545.9	880.8	1269.8	1589.9	1625.8	1619.5	1561.5	1485.9	1088.4
65°	207.6	208.7	285.5	436.2	650.5	832.5	932.6	943.4	789.3	726.2	516.3
67.5°	150.7	156.4	205.3	266.7	306.5	342.9	420.2	412.3	312.2	296.8	275.2
70°	117.1	122.3	166.6	203.6	184.8	184.8	201.3	208.1	222.3	228.6	236.0
72.5°	85.3	89.3	127.4	140.5	121.1	130.2	150.7	166.6	181.4	183.7	192.2
75°	58.6	62.0	83.6	77.3	72.8	89.8	110.3	125.1	135.9	141.6	146.7
77.5°	38.1	39.2	47.8	40.4	46.6	58.0	71.6	84.2	95.0	99.5	100.7
80°	17.1	18.8	20.5	25.6	32.4	41.5	51.2	61.4	68.2	69.9	73.4
82.5°	9.7	9.7	12.5	18.2	23.9	30.1	37.0	44.4	52.3	54.0	53.5
85°	5.1	5.1	7.4	10.8	14.8	17.6	17.1	17.6	18.8	21.6	21.0
87.5°	1.7	1.7	2.3	2.3	2.8	3.4	2.8	4.0	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526686

CATALOG NUMBER: GALN-SA1C-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1166.3	1171.4	1164.6	1179.4	1179.4	1176.5	1162.3	1166.9	1170.3	1170.3	1173.1
5°	1188.5	1186.8	1191.3	1173.7	1162.9	1158.9	1135.6	1124.2	1114.5	1114.0	1105.5
7.5°	1201.0	1196.4	1194.7	1181.7	1133.9	1104.9	1054.8	1025.8	1019.6	997.4	1005.9
10°	1220.9	1229.4	1220.9	1149.8	1083.3	1016.7	967.8	922.9	905.3	891.1	882.5
12.5°	1261.8	1257.8	1208.4	1112.3	1019.0	940.0	867.2	820.0	802.4	789.9	788.7
15°	1296.5	1276.6	1201.0	1053.1	918.9	834.8	775.1	741.5	733.6	734.7	739.8
17.5°	1308.5	1294.8	1162.3	991.7	844.4	745.5	717.6	712.5	719.9	728.4	730.7
20°	1327.2	1305.6	1146.4	908.1	752.3	689.8	688.1	706.3	719.9	732.4	734.1
22.5°	1366.5	1311.9	1094.6	829.1	689.2	673.3	689.8	705.1	726.2	736.4	727.3
25°	1377.8	1298.2	1021.9	734.1	649.4	663.0	680.7	701.7	716.5	722.2	726.2
27.5°	1387.5	1277.2	923.5	671.0	636.9	662.5	680.7	698.3	706.3	711.4	715.9
30°	1414.8	1270.9	838.2	628.9	628.9	651.1	674.4	679.0	689.8	696.0	704.0
32.5°	1428.4	1227.7	750.6	602.2	621.0	656.8	658.5	667.0	667.6	672.7	664.2
35°	1464.3	1197.0	669.3	582.9	624.4	651.1	659.6	654.5	626.6	613.0	615.8
37.5°	1490.4	1181.7	610.7	580.6	624.9	657.4	661.9	623.2	594.2	571.5	577.2
40°	1560.9	1143.6	566.4	576.6	630.1	664.2	651.7	609.6	557.3	534.0	530.0
42.5°	1615.0	1116.3	538.5	572.1	634.0	673.8	646.6	582.3	528.8	507.2	512.9
45°	1677.5	1110.0	523.7	573.2	640.9	679.0	640.3	561.3	504.4	495.9	494.2
47.5°	1699.7	1065.1	507.8	563.5	639.2	677.3	619.3	545.3	495.3	496.4	501.0
50°	1662.7	1019.0	495.9	543.6	627.8	661.9	586.3	524.3	490.2	504.4	512.4
52.5°	1615.5	971.8	471.4	516.9	604.5	638.0	570.9	523.2	485.1	480.5	482.2
55°	1629.7	933.2	437.3	480.5	566.9	593.7	553.9	512.4	472.5	455.5	461.2
56°	1583.7	893.3	415.1	457.8	541.4	565.2	545.3	502.7	462.3	450.9	450.9
57.5°	1453.5	759.7	386.1	421.4	487.3	515.8	528.8	497.0	450.9	431.0	431.6
60°	1071.9	540.2	346.3	371.3	403.7	426.5	487.3	481.1	422.5	408.9	403.7
62.5°	660.8	394.6	317.9	327.5	344.0	362.8	425.3	435.6	392.4	377.6	374.2
65°	370.2	302.0	296.3	300.2	308.2	317.9	353.1	375.9	346.3	323.6	322.4
67.5°	270.7	270.1	274.7	278.1	281.5	281.5	290.0	299.1	295.1	276.9	275.2
70°	240.5	242.2	245.7	246.2	247.4	243.4	236.6	233.7	238.3	226.9	224.6
72.5°	198.5	204.1	208.1	208.7	202.4	197.3	188.2	178.6	175.1	172.9	172.3
75°	152.4	156.4	158.1	157.5	155.2	147.8	137.0	127.4	121.1	114.3	117.7
77.5°	102.9	108.6	111.5	111.5	108.0	96.7	91.6	84.2	77.9	70.5	71.6
80°	72.2	76.2	80.7	80.2	74.5	68.8	61.4	54.6	49.5	43.8	43.2
82.5°	54.0	56.3	58.6	57.4	53.5	47.8	42.6	36.4	30.7	26.7	26.7
85°	19.3	21.0	25.6	26.7	29.0	29.0	24.5	20.5	16.5	13.6	13.6
87.5°	5.7	5.7	6.3	6.3	5.7	6.3	5.1	5.7	6.3	4.0	4.0
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)