

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: P526296

Luminaire Tested: **GALN-SA1B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526296
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-SA1B-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 4204 lumens
Efficiency: N/A
Efficacy: 95.5 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

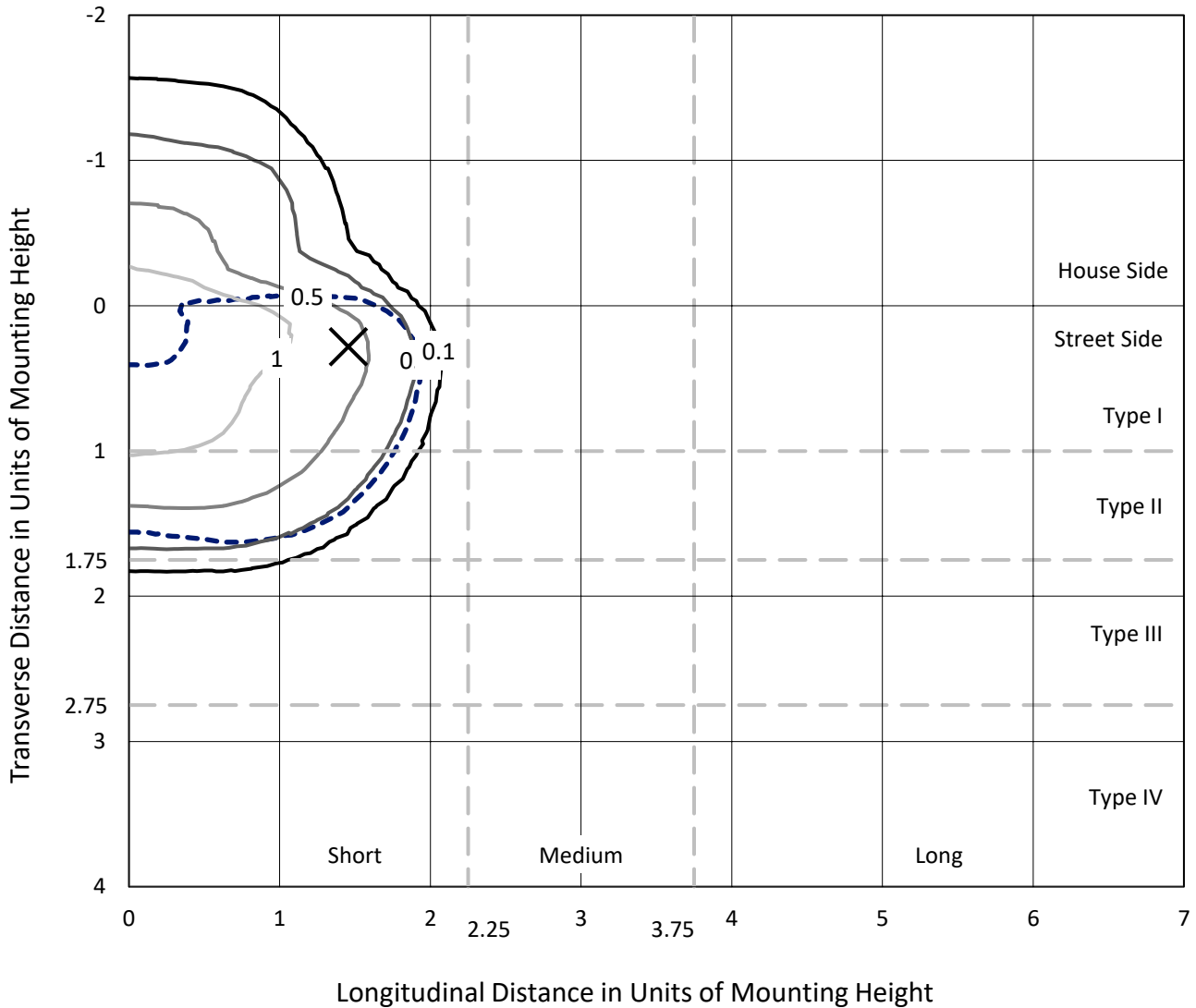
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

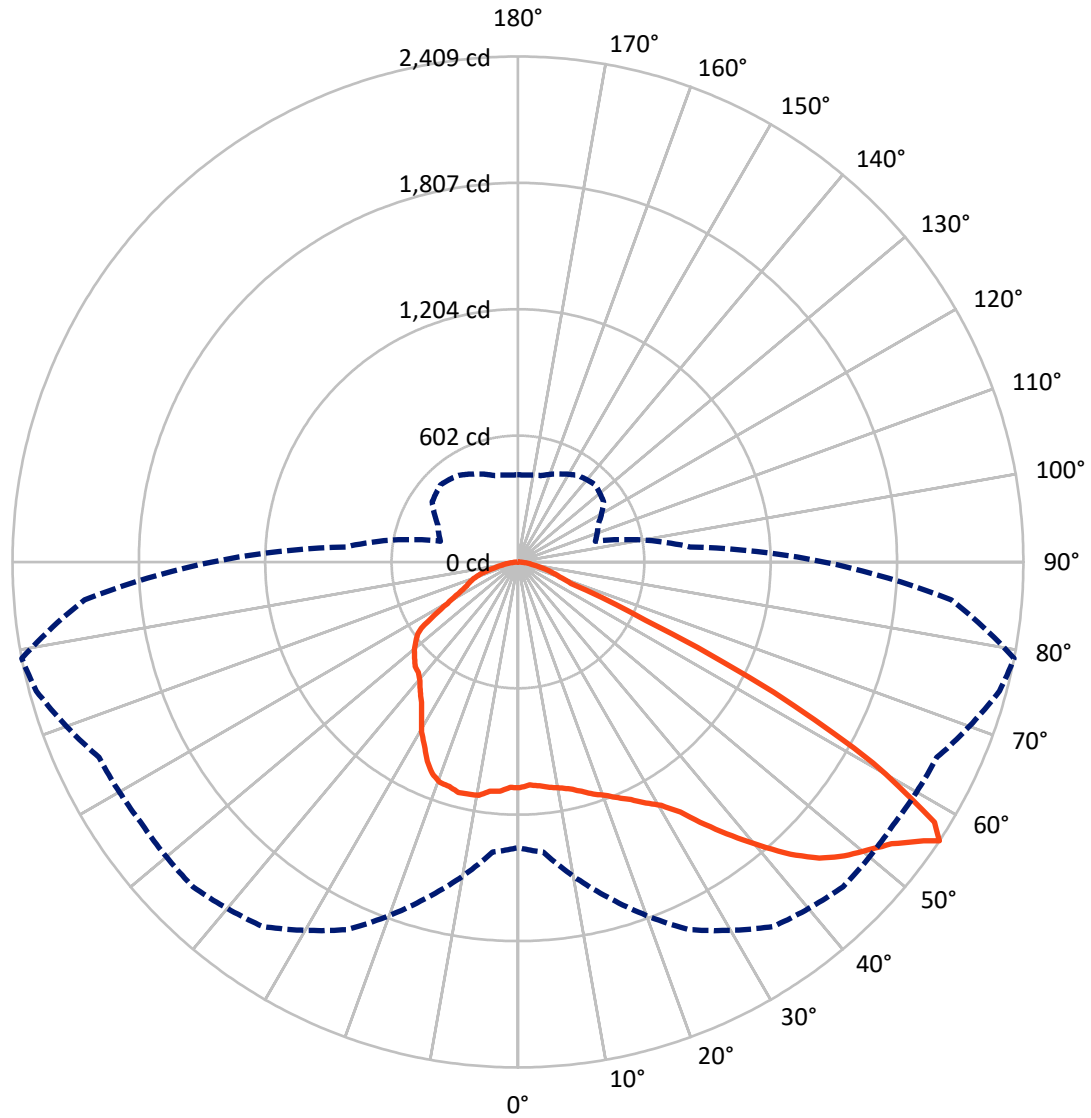
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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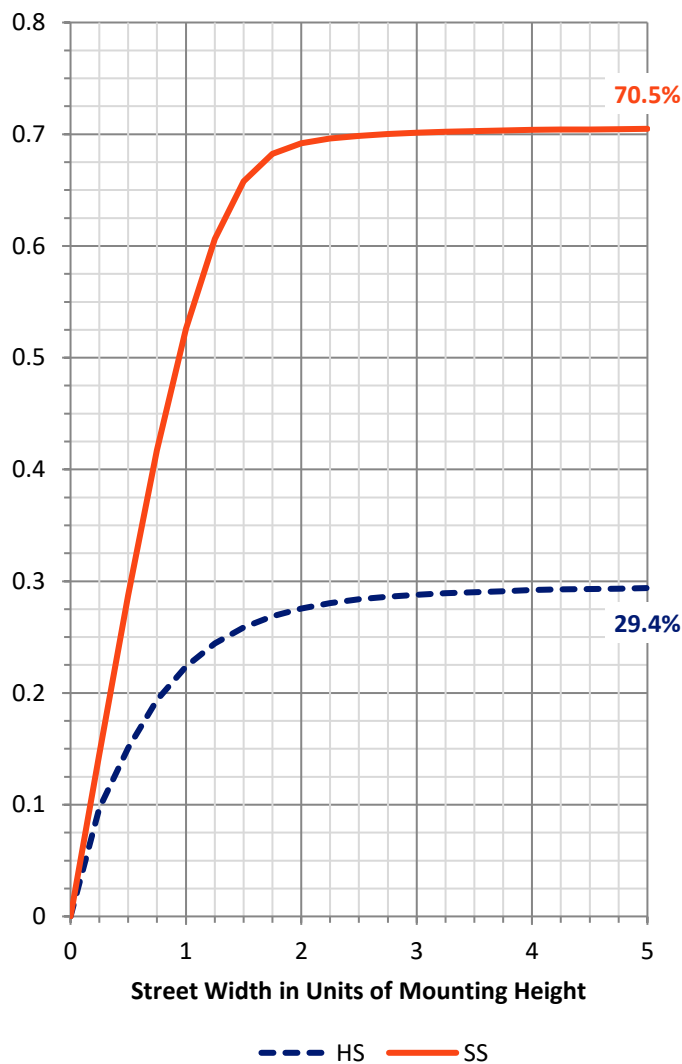
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.5	0.0	1241.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	2962.5	0.0	2962.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	4204.0	0.0	4204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	2.3
10°-20°	267.6	6.4
20°-30°	457.9	10.9
30°-40°	701.8	16.7
40°-50°	948.4	22.6
50°-60°	1089.3	25.9
60°-70°	496.5	11.8
70°-80°	122.4	2.9
80°-90°	22.2	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°	4204.0	100.0
0°-180°	4204.0	100.0

Coefficient of Utilization



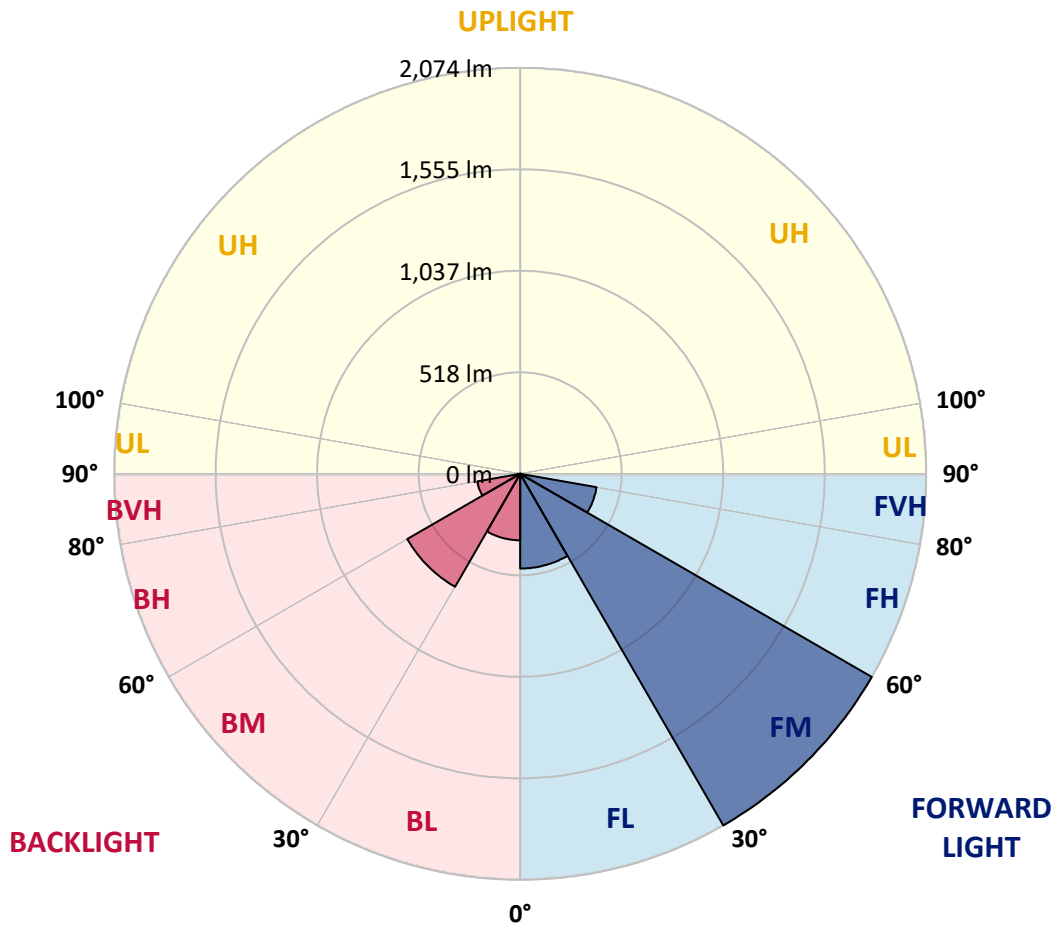
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.7	11.5			
FM (30°-60°)	2073.5	49.3			
FH (60°-80°)	396.3	9.4			G0/660
FVH (80°-90°)	8.9	0.2			G0/10
BL (0°-30°)	339.6	8.1	B1/500		
BM (30°-60°)	665.9	15.8	B1/1000		
BH (60°-80°)	222.6	5.3	B1/500		G1/500
BVH (80°-90°)	13.4	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°	55°	65°	75°	79°	85°
0°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1023.3	1020.7	1026.9	1031.6	1037.4	1044.7	1048.4	1050.5	1068.8	1064.1	1078.3
5°	1001.3	994.5	999.2	1002.8	1012.8	1021.7	1031.6	1047.4	1064.1	1071.4	1088.7
7.5°	981.9	978.2	977.2	979.8	993.4	1004.9	1022.2	1045.3	1072.5	1084.5	1094.5
10°	950.0	944.7	952.6	969.9	973.5	997.6	1017.5	1050.5	1074.1	1095.0	1124.3
12.5°	935.8	930.6	932.1	942.1	967.8	990.8	1014.4	1051.5	1101.3	1109.7	1149.0
15°	958.3	953.1	954.7	952.0	976.7	988.7	1025.9	1072.5	1120.1	1134.3	1176.2
17.5°	1009.7	1010.2	1003.4	997.6	991.8	1017.5	1043.2	1085.1	1127.5	1163.1	1194.5
20°	1107.6	1090.3	1076.7	1044.2	1035.3	1046.3	1078.8	1119.1	1157.3	1186.7	1222.3
22.5°	1183.0	1184.6	1165.2	1111.8	1092.4	1097.1	1124.9	1157.9	1199.7	1220.7	1261.5
25°	1292.4	1281.4	1260.5	1218.1	1174.6	1178.3	1198.7	1228.6	1240.1	1254.7	1299.2
27.5°	1392.5	1395.6	1354.2	1314.4	1260.5	1250.0	1286.7	1291.9	1272.5	1300.3	1315.5
30°	1494.1	1491.4	1464.2	1417.6	1364.7	1366.8	1383.0	1357.4	1330.7	1345.9	1356.3
32.5°	1599.3	1569.5	1568.4	1526.5	1486.2	1466.8	1446.9	1459.5	1418.1	1421.3	1411.3
35°	1683.6	1687.8	1663.7	1633.9	1614.0	1579.9	1525.5	1548.0	1540.1	1536.5	1493.5
37.5°	1744.9	1728.7	1740.7	1730.8	1711.9	1669.5	1612.9	1634.4	1638.1	1655.9	1606.1
40°	1795.2	1788.4	1820.3	1825.5	1812.5	1720.8	1619.2	1683.1	1738.1	1776.8	1717.7
42.5°	1819.3	1833.9	1867.4	1907.8	1878.4	1780.5	1651.7	1720.3	1842.8	1904.1	1823.5
45°	1851.7	1832.9	1882.6	1956.5	1957.0	1830.8	1683.1	1770.6	1924.5	2013.5	1895.7
47.5°	1818.7	1828.2	1879.5	1973.2	1997.3	1883.7	1767.9	1841.8	2014.6	2093.7	1962.7
50°	1744.9	1763.8	1857.5	1954.9	2027.7	1939.7	1865.3	1918.8	2097.9	2158.1	1973.7
52.5°	1667.9	1678.4	1825.0	1969.0	2041.3	2012.0	1995.7	2025.1	2199.5	2230.9	1987.4
55°	1458.4	1508.2	1717.7	1962.7	2107.8	2142.4	2129.8	2172.7	2314.7	2346.1	2061.7
56°	1361.6	1387.7	1653.3	1933.4	2120.9	2190.0	2183.7	2203.1	2375.9	2408.9	2073.2
57.5°	1182.5	1184.6	1409.7	1803.6	2071.7	2204.2	2197.9	2213.1	2363.9	2341.4	1972.2
60°	740.0	772.4	959.4	1387.2	1761.7	2045.0	2080.6	1958.6	1993.1	1945.5	1534.4
62.5°	383.3	378.6	502.7	811.2	1169.4	1464.2	1497.2	1491.4	1438.0	1368.4	1002.3
65°	191.1	192.2	262.9	401.7	599.1	766.7	858.8	868.8	726.9	668.7	475.5
67.5°	138.8	144.0	189.0	245.6	282.3	315.8	387.0	379.7	287.5	273.4	253.5
70°	107.9	112.6	153.4	187.5	170.2	170.2	185.4	191.7	204.8	210.5	217.3
72.5°	78.6	82.2	117.3	129.3	111.5	119.9	138.8	153.4	167.1	169.1	177.0
75°	53.9	57.1	77.0	71.2	67.0	82.7	101.6	115.2	125.2	130.4	135.1
77.5°	35.1	36.1	44.0	37.2	42.9	53.4	66.0	77.5	87.5	91.6	92.7
80°	15.7	17.3	18.9	23.6	29.8	38.2	47.1	56.6	62.8	64.4	67.6
82.5°	8.9	8.9	11.5	16.8	22.0	27.8	34.0	40.8	48.2	49.7	49.2
85°	4.7	4.7	6.8	9.9	13.6	16.2	15.7	16.2	17.3	19.9	19.4
87.5°	1.6	1.6	2.1	2.1	2.6	3.1	2.6	3.7	4.7	4.7	4.7
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°	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1074.1	1078.8	1072.5	1086.1	1086.1	1083.5	1070.4	1074.6	1077.7	1077.7	1080.4
5°	1094.5	1092.9	1097.1	1080.9	1070.9	1067.3	1045.8	1035.3	1026.4	1025.9	1018.0
7.5°	1106.0	1101.8	1100.3	1088.2	1044.2	1017.5	971.4	944.7	939.0	918.5	926.4
10°	1124.3	1132.2	1124.3	1058.9	997.6	936.3	891.3	849.9	833.7	820.6	812.8
12.5°	1162.0	1158.4	1112.8	1024.3	938.4	865.6	798.6	755.1	738.9	727.4	726.3
15°	1194.0	1175.7	1106.0	969.9	846.3	768.8	713.8	682.9	675.5	676.6	681.3
17.5°	1205.0	1192.4	1070.4	913.3	777.7	686.5	660.9	656.2	663.0	670.8	672.9
20°	1222.3	1202.4	1055.7	836.3	692.8	635.2	633.7	650.4	663.0	674.5	676.1
22.5°	1258.4	1208.1	1008.1	763.5	634.7	620.0	635.2	649.4	668.7	678.2	669.8
25°	1268.9	1195.6	941.1	676.1	598.0	610.6	626.8	646.2	659.8	665.1	668.7
27.5°	1277.8	1176.2	850.5	617.9	586.5	610.1	626.8	643.1	650.4	655.1	659.3
30°	1302.9	1170.4	771.9	579.2	579.2	599.6	621.1	625.3	635.2	641.0	648.3
32.5°	1315.5	1130.6	691.3	554.6	571.9	604.8	606.4	614.3	614.8	619.5	611.7
35°	1348.5	1102.3	616.4	536.8	575.0	599.6	607.5	602.8	577.1	564.5	567.1
37.5°	1372.6	1088.2	562.4	534.7	575.5	605.4	609.6	574.0	547.2	526.3	531.5
40°	1437.5	1053.1	521.6	531.0	580.2	611.7	600.1	561.4	513.2	491.7	488.1
42.5°	1487.2	1028.0	495.9	526.8	583.9	620.6	595.4	536.2	487.0	467.1	472.4
45°	1544.9	1022.2	482.3	527.9	590.2	625.3	589.7	516.9	464.5	456.6	455.1
47.5°	1565.3	980.9	467.6	519.0	588.6	623.7	570.3	502.2	456.1	457.2	461.4
50°	1531.2	938.4	456.6	500.6	578.1	609.6	539.9	482.8	451.4	464.5	471.8
52.5°	1487.8	895.0	434.1	476.0	556.7	587.6	525.8	481.8	446.7	442.5	444.1
55°	1500.9	859.4	402.7	442.5	522.1	546.7	510.1	471.8	435.2	419.5	424.7
56°	1458.4	822.7	382.3	421.6	498.5	520.5	502.2	462.9	425.8	415.3	415.3
57.5°	1338.5	699.6	355.6	388.0	448.8	475.0	487.0	457.7	415.3	396.9	397.5
60°	987.1	497.5	318.9	342.0	371.8	392.8	448.8	443.0	389.1	376.5	371.8
62.5°	608.5	363.4	292.7	301.6	316.8	334.1	391.7	401.1	361.3	347.7	344.6
65°	340.9	278.1	272.8	276.5	283.8	292.7	325.2	346.2	318.9	298.0	296.9
67.5°	249.3	248.7	252.9	256.1	259.2	259.2	267.1	275.5	271.8	255.0	253.5
70°	221.5	223.1	226.2	226.8	227.8	224.1	217.9	215.2	219.4	208.9	206.9
72.5°	182.8	188.0	191.7	192.2	186.4	181.7	173.3	164.4	161.3	159.2	158.7
75°	140.3	144.0	145.6	145.1	143.0	136.2	126.2	117.3	111.5	105.3	108.4
77.5°	94.8	100.0	102.6	102.6	99.5	89.0	84.3	77.5	71.7	64.9	66.0
80°	66.5	70.2	74.4	73.8	68.6	63.4	56.6	50.3	45.6	40.3	39.8
82.5°	49.7	51.8	53.9	52.9	49.2	44.0	39.3	33.5	28.3	24.6	24.6
85°	17.8	19.4	23.6	24.6	26.7	26.7	22.5	18.9	15.2	12.6	12.6
87.5°	5.2	5.2	5.8	5.8	5.2	5.8	4.7	5.2	5.8	3.7	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

(END OF REPORT)