

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: P526528

Luminaire Tested: **GALN-SA1C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5073 lumens
Efficiency: N/A
Efficacy: 89.0 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

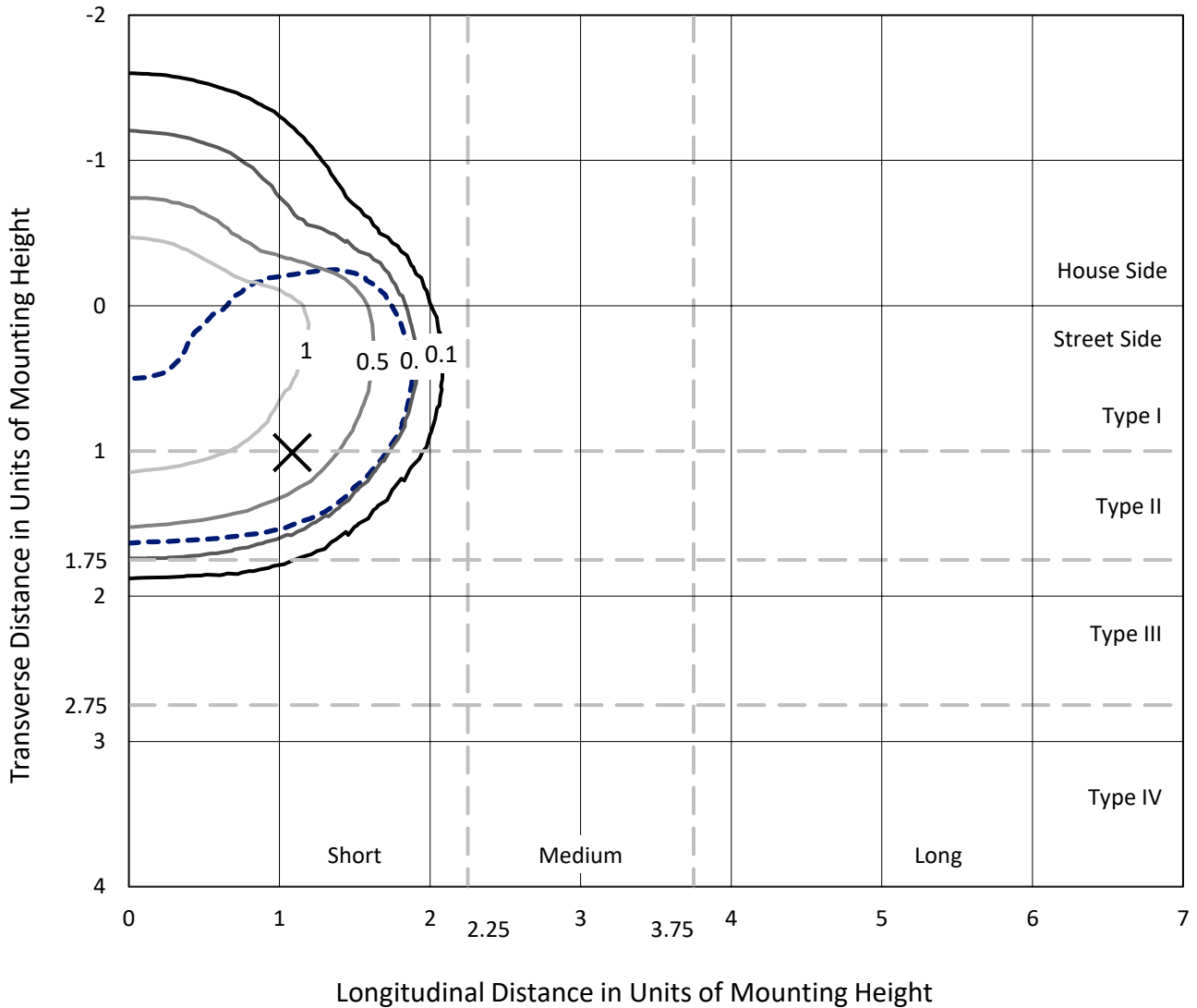
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

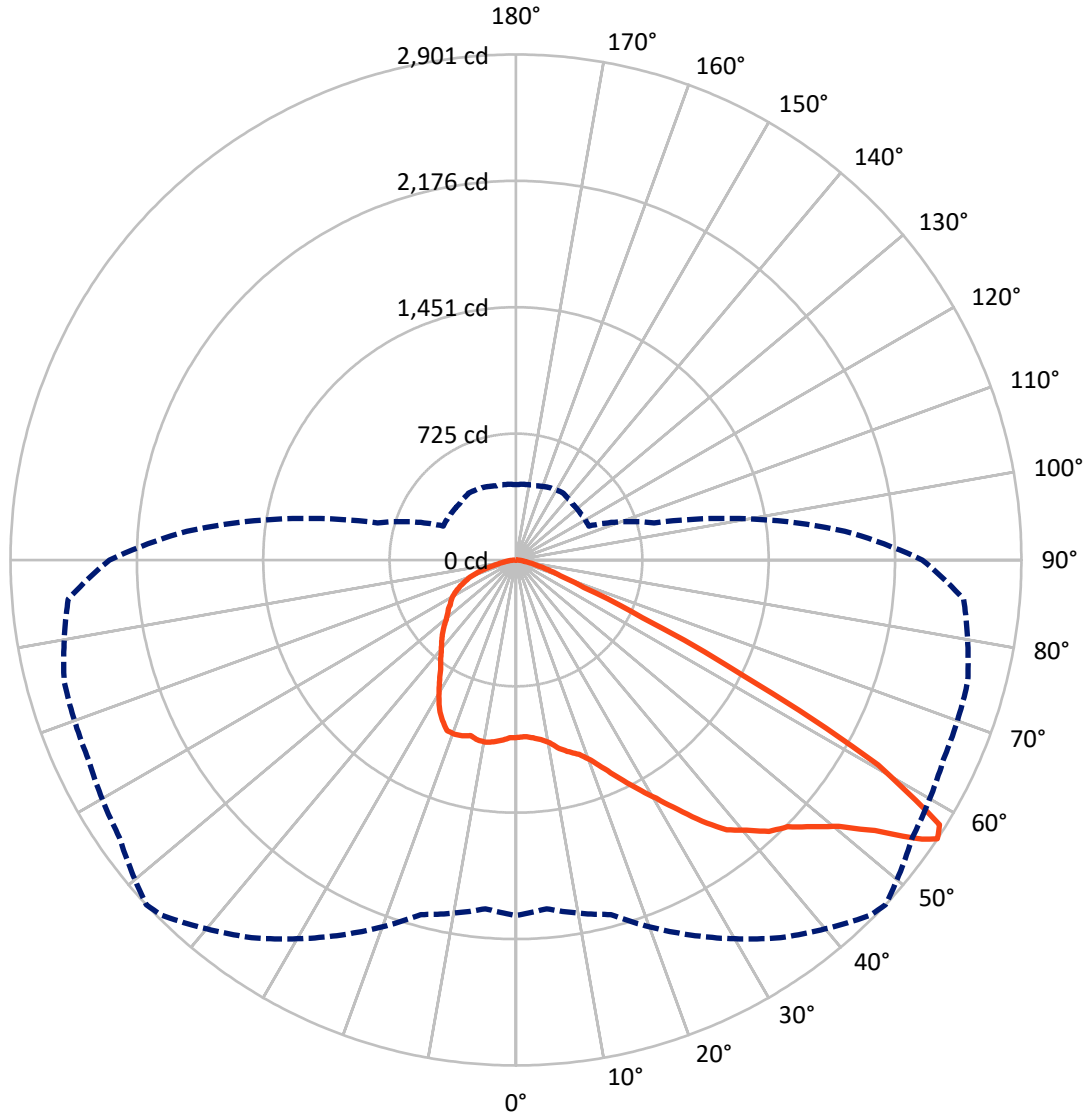
✕ Max cd
 - - - 1/2 Max cd



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 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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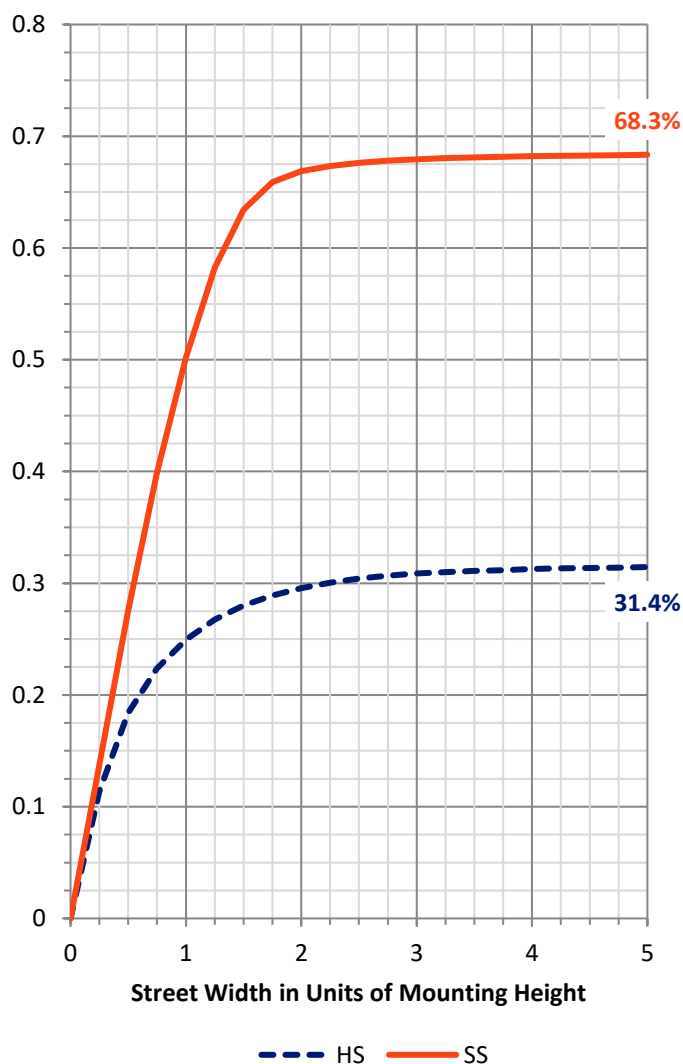
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.6	0.0	1607.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3465.4	0.0	3465.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	5073.0	0.0	5073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	2.0
10°-20°	313.2	6.2
20°-30°	553.7	10.9
30°-40°	831.6	16.4
40°-50°	1141.3	22.5
50°-60°	1359.7	26.8
60°-70°	581.9	11.5
70°-80°	164.7	3.2
80°-90°	27.7	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°	5073.0	100.0
0°-180°	5073.0	100.0

Coefficient of Utilization

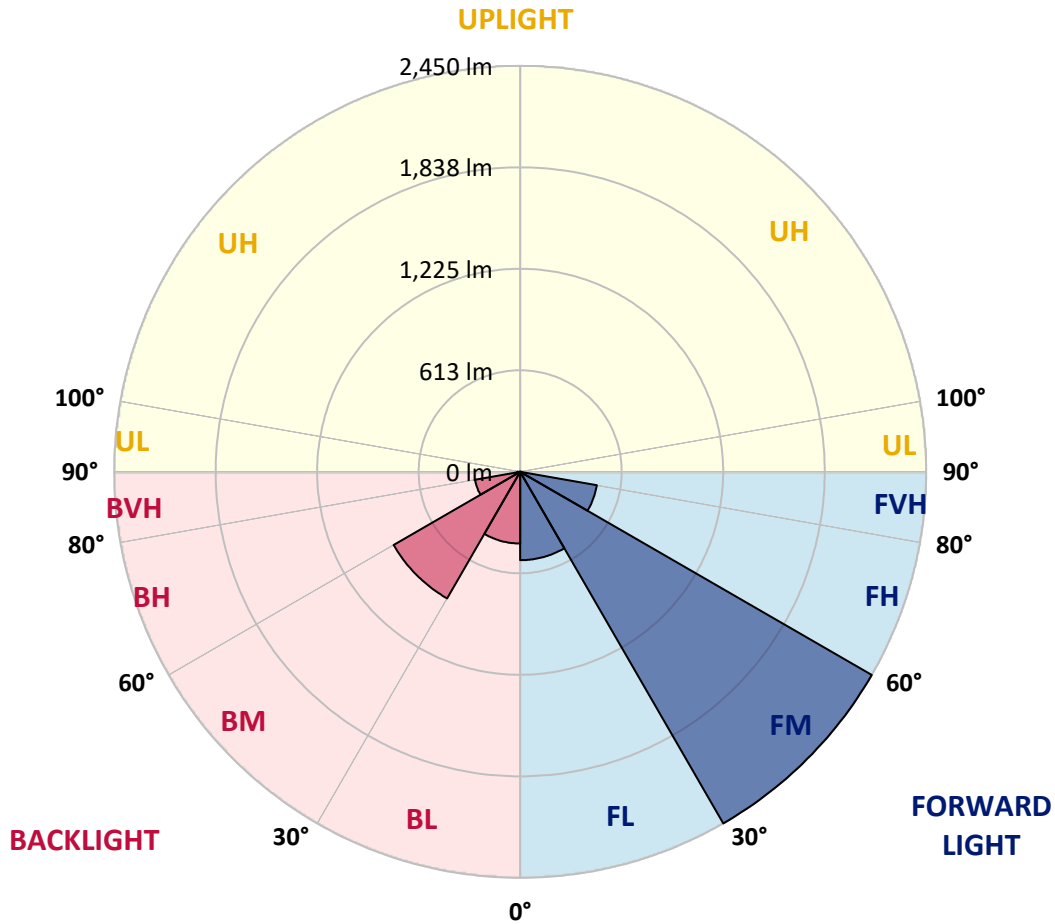


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.3	10.5			
FM (30°-60°)	2450.4	48.3			
FH (60°-80°)	469.9	9.3			G0/660
FVH (80°-90°)	11.8	0.2			G1/100
BL (0°-30°)	432.8	8.5	B1/500		
BM (30°-60°)	882.2	17.4	B1/1000		
BH (60°-80°)	276.6	5.5	B1/500		G1/500
BVH (80°-90°)	15.9	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°	47°	55°	65°	75°	85°
0°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1015.1	1013.2	1011.9	1022.2	1018.4	1019.0	1015.1	1019.0	1021.6	1015.8	1024.2
5°	1013.2	1019.0	1013.8	1017.1	1025.5	1022.9	1025.5	1033.2	1031.3	1029.4	1026.8
7.5°	1031.3	1032.0	1035.8	1037.1	1039.7	1037.1	1041.0	1048.1	1046.2	1035.2	1036.5
10°	1057.2	1058.5	1059.1	1066.2	1070.8	1071.4	1066.9	1060.4	1059.8	1074.7	1064.3
12.5°	1086.9	1083.7	1091.5	1094.1	1099.2	1105.1	1110.9	1097.3	1105.7	1106.4	1094.1
15°	1130.3	1133.5	1124.5	1124.5	1126.4	1127.1	1143.2	1136.8	1135.5	1128.4	1133.5
17.5°	1195.0	1173.0	1172.3	1163.3	1162.0	1167.2	1173.0	1178.2	1195.6	1181.4	1153.6
20°	1242.2	1247.4	1228.6	1217.6	1219.6	1231.2	1225.4	1248.7	1261.0	1237.7	1210.5
22.5°	1325.7	1308.2	1312.7	1288.2	1290.1	1302.4	1301.7	1325.7	1332.8	1295.9	1256.5
25°	1382.0	1377.4	1381.3	1361.9	1364.5	1374.2	1389.7	1429.2	1417.6	1376.8	1285.6
27.5°	1464.1	1455.1	1451.8	1444.7	1442.1	1468.0	1486.1	1528.2	1519.8	1460.3	1337.3
30°	1548.3	1542.4	1545.7	1516.5	1526.9	1581.9	1587.1	1644.7	1640.8	1536.0	1394.9
32.5°	1606.5	1609.7	1615.5	1599.4	1645.3	1689.3	1706.8	1772.1	1775.3	1666.0	1506.2
35°	1700.3	1689.3	1692.5	1711.3	1732.6	1812.9	1841.3	1884.7	1911.9	1802.5	1612.9
37.5°	1759.2	1770.8	1757.2	1787.0	1842.6	1939.0	1964.9	2009.6	2038.0	1937.1	1758.5
40°	1851.0	1832.3	1842.0	1863.3	1920.3	2045.8	2038.7	2084.6	2093.7	2051.6	1894.4
42.5°	1950.0	1941.0	1927.4	1975.9	2023.8	2115.0	2129.2	2107.9	2153.8	2163.5	2088.5
45°	2068.4	2079.4	2081.4	2082.7	2124.7	2204.3	2184.9	2166.1	2219.2	2289.7	2208.8
47.5°	2178.4	2143.5	2168.7	2203.7	2263.2	2263.8	2286.5	2241.8	2298.1	2360.9	2317.5
50°	2215.3	2198.5	2232.1	2298.1	2390.0	2399.7	2402.3	2338.9	2368.0	2417.8	2355.0
52.5°	2201.1	2195.2	2281.3	2383.5	2518.1	2567.3	2580.2	2501.9	2518.1	2495.4	2437.9
55°	2133.1	2150.6	2237.3	2445.6	2652.0	2804.1	2828.6	2729.7	2626.8	2644.3	2580.8
56°	2040.0	2009.6	2106.6	2375.1	2646.2	2881.1	2901.1	2777.5	2707.7	2685.0	2579.6
57.5°	1730.7	1691.2	1818.7	2137.0	2499.3	2851.9	2866.8	2797.6	2694.1	2648.1	2391.3
60°	1013.2	1032.6	1194.3	1473.8	1928.0	2338.2	2388.0	2438.5	2369.3	2163.5	1779.9
62.5°	489.1	476.8	592.6	845.0	1174.9	1492.6	1477.7	1619.4	1697.1	1537.3	1123.8
65°	256.2	254.9	323.5	461.3	645.7	784.2	797.7	874.1	980.8	791.9	570.6
67.5°	188.3	193.5	227.7	324.1	415.4	423.8	421.8	460.0	470.4	397.9	350.7
70°	147.5	150.1	175.3	246.5	309.3	276.9	271.1	275.6	306.0	319.0	303.4
72.5°	106.8	109.3	130.7	166.3	193.5	188.9	192.8	218.0	255.6	269.1	253.0
75°	71.2	73.1	84.8	101.6	114.5	123.6	130.7	159.8	194.7	202.5	194.7
77.5°	49.2	51.1	58.9	71.8	73.1	78.9	81.5	95.1	116.5	126.2	121.0
80°	27.8	27.8	31.7	36.9	45.3	53.1	54.3	65.3	75.1	81.5	82.8
82.5°	12.9	13.6	16.8	22.6	29.8	36.9	38.2	45.3	52.4	58.9	60.8
85°	6.5	7.1	9.7	13.6	18.1	22.0	21.4	22.0	23.3	22.0	22.6
87.5°	1.9	1.9	2.6	3.2	2.6	3.2	3.2	3.9	4.5	5.2	5.8
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°	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1024.8	1026.8	1013.8	1026.1	1021.6	1021.0	1030.0	1028.7	1032.0	1030.7	1022.9
5°	1025.5	1021.0	1034.5	1022.2	1028.1	1040.4	1032.0	1051.4	1041.7	1048.1	1033.9
7.5°	1045.5	1046.8	1044.2	1049.4	1046.8	1052.7	1048.1	1052.7	1044.9	1045.5	1058.5
10°	1063.0	1059.1	1063.7	1057.2	1061.7	1059.8	1049.4	1046.2	1048.8	1045.5	1053.9
12.5°	1095.4	1088.2	1085.0	1077.2	1072.1	1052.7	1036.5	1027.4	1039.7	1041.7	1037.8
15°	1128.4	1129.0	1114.1	1096.7	1064.3	1035.2	1039.1	1042.3	1042.3	1047.5	1037.8
17.5°	1149.1	1149.1	1135.5	1100.5	1067.5	1050.7	1046.8	1036.5	1027.4	1026.1	1025.5
20°	1185.3	1174.3	1143.2	1099.9	1066.2	1058.5	1029.4	1004.8	986.0	979.5	978.9
22.5°	1226.7	1198.9	1155.5	1101.2	1064.3	1053.3	999.0	962.1	928.4	914.2	916.1
25°	1264.9	1220.2	1162.6	1095.4	1057.2	1004.1	943.3	892.2	857.3	845.6	839.8
27.5°	1291.4	1242.9	1162.6	1100.5	1030.7	949.1	887.0	821.7	791.3	783.5	784.8
30°	1327.0	1271.3	1182.7	1089.5	977.6	878.0	803.6	760.9	742.7	736.3	740.8
32.5°	1410.4	1345.7	1210.5	1063.0	914.8	806.8	746.6	722.7	696.2	683.2	678.7
35°	1501.0	1416.3	1237.7	1018.4	844.3	742.1	704.6	682.6	650.9	636.6	639.2
37.5°	1629.1	1506.8	1239.6	944.6	768.0	705.9	671.6	637.3	611.4	589.4	582.9
40°	1801.9	1630.4	1235.1	867.0	706.5	663.2	637.9	595.2	566.1	550.6	553.8
42.5°	1953.9	1775.3	1216.3	779.0	650.9	634.1	605.6	563.5	535.1	518.9	517.6
45°	2082.0	1882.1	1180.8	703.9	604.3	601.7	568.7	536.4	513.7	498.8	505.3
47.5°	2200.4	1968.1	1127.1	628.9	561.6	566.8	535.1	515.0	500.8	487.2	486.5
50°	2243.1	1966.9	1079.8	566.8	527.3	524.7	523.4	502.1	487.2	475.5	480.7
52.5°	2314.3	1988.9	1028.7	524.1	496.2	496.9	501.4	485.9	469.1	462.0	468.4
55°	2416.5	1992.1	916.1	474.2	470.4	474.9	474.9	464.5	450.3	444.5	441.2
56°	2333.1	1895.7	821.7	461.3	457.4	457.4	469.7	458.1	440.6	436.1	432.2
57.5°	2151.9	1660.8	687.8	445.8	440.0	449.0	455.5	443.2	427.0	420.5	424.4
60°	1484.2	1123.8	516.9	412.1	412.1	427.0	432.2	414.1	407.0	406.3	401.1
62.5°	866.3	654.8	404.4	381.7	383.0	395.3	399.2	388.8	379.8	390.8	396.0
65°	459.4	390.8	346.8	349.4	350.0	359.7	376.5	375.9	375.3	378.5	379.1
67.5°	332.6	324.8	315.1	312.5	313.8	320.9	337.7	350.7	350.0	342.3	336.4
70°	296.3	285.3	279.5	280.1	275.0	283.4	297.0	305.4	290.5	281.4	277.6
72.5°	246.5	243.3	239.4	240.0	229.7	227.7	212.2	212.2	208.3	205.7	210.3
75°	188.3	187.0	188.9	185.7	174.7	163.0	154.0	145.6	132.6	127.5	124.9
77.5°	119.0	122.9	127.5	120.3	115.8	107.4	98.3	89.9	79.6	73.8	73.8
80°	80.9	84.1	87.3	86.0	80.9	73.1	66.0	56.9	49.8	45.3	44.6
82.5°	61.5	64.1	68.6	63.4	58.2	51.8	45.9	39.5	33.0	27.8	27.8
85°	22.0	25.2	27.8	30.4	32.3	33.0	28.5	23.3	18.8	14.9	14.2
87.5°	5.8	6.5	7.1	6.5	6.5	6.5	7.1	6.5	5.8	4.5	4.5
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)