

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: P526530

Luminaire Tested: **GALN-SA1C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526530
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-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 5193 lumens
Efficiency: N/A
Efficacy: 91.1 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

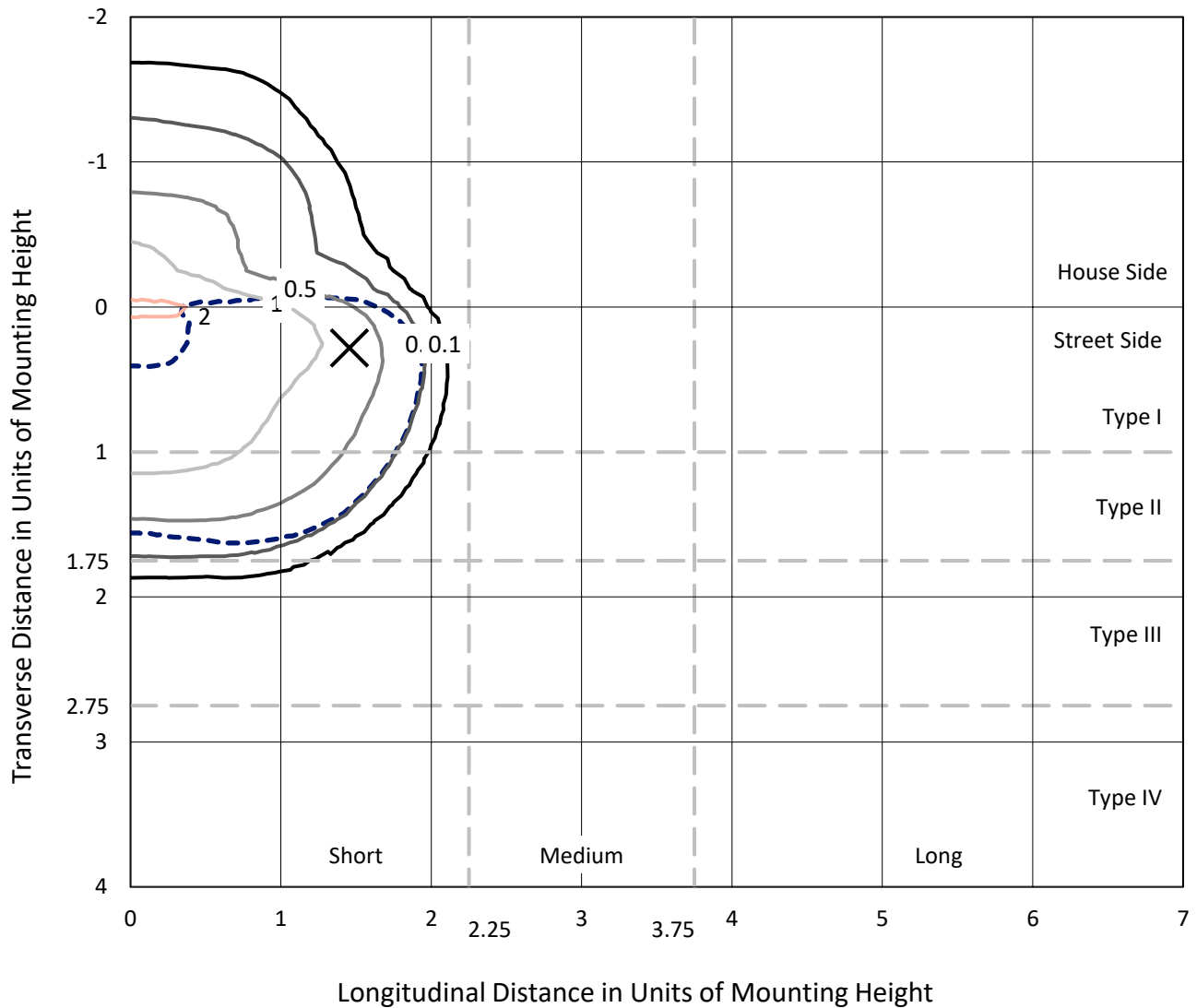
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

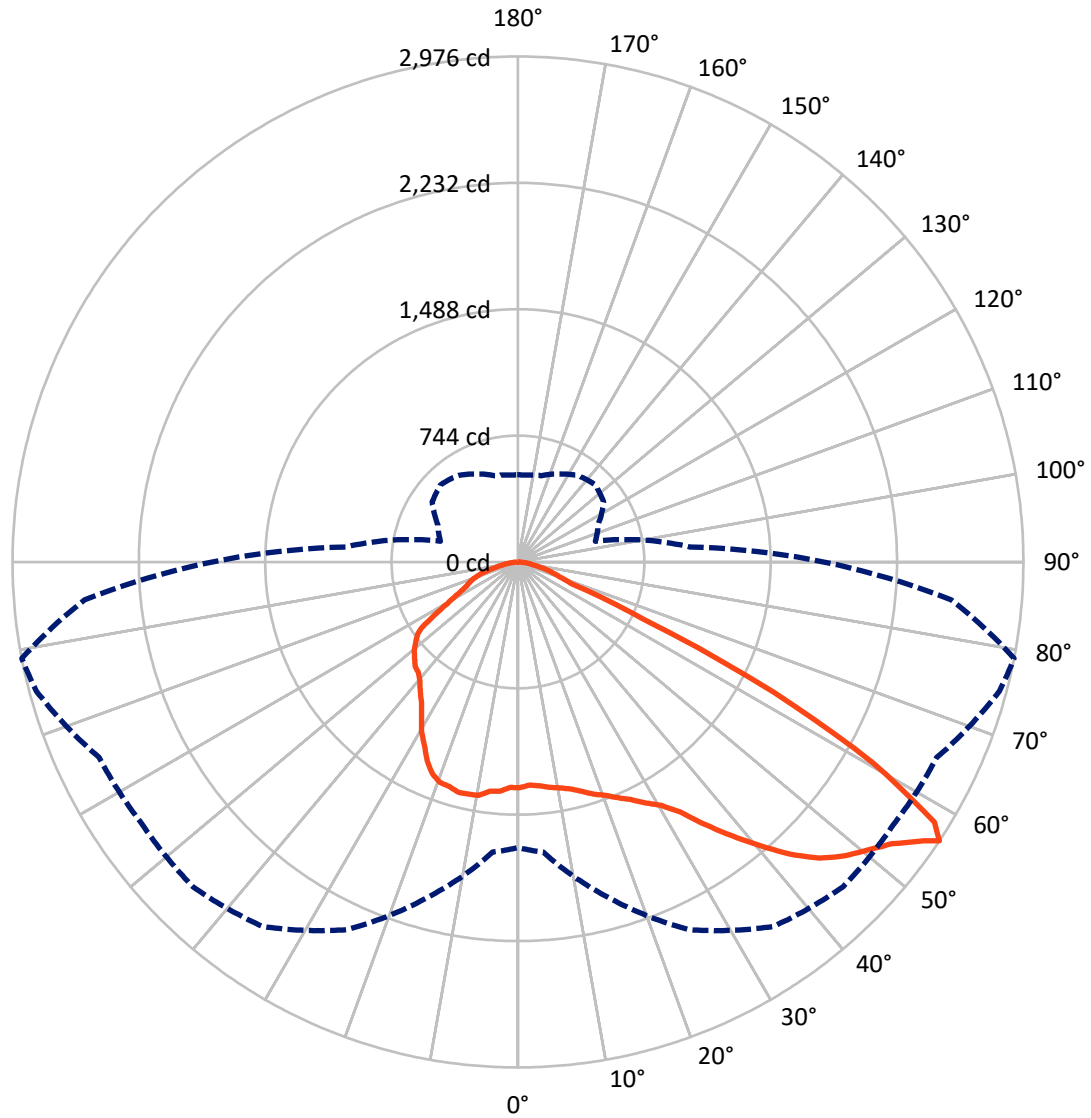
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

REPORT NUMBER: P526530
CATALOG NUMBER: GALN-SA1C-727-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

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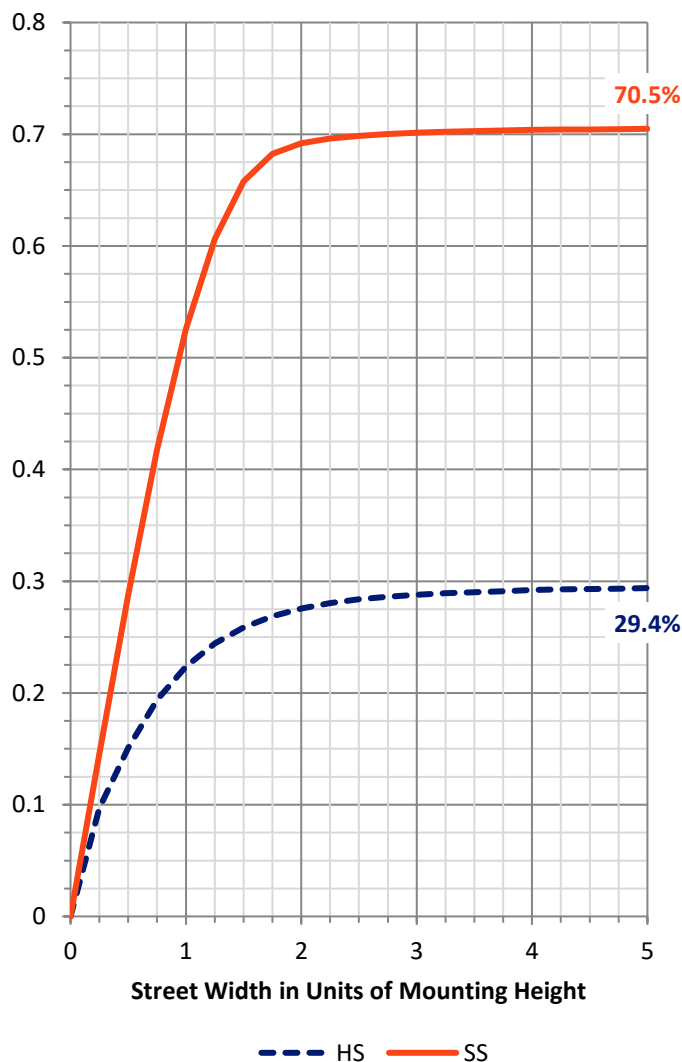
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.6	0.0	1533.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3659.4	0.0	3659.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	5193.0	0.0	5193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	2.3
10°-20°	330.6	6.4
20°-30°	565.6	10.9
30°-40°	866.8	16.7
40°-50°	1171.5	22.6
50°-60°	1345.6	25.9
60°-70°	613.3	11.8
70°-80°	151.2	2.9
80°-90°	27.5	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°	5193.0	100.0
0°-180°	5193.0	100.0

Coefficient of Utilization

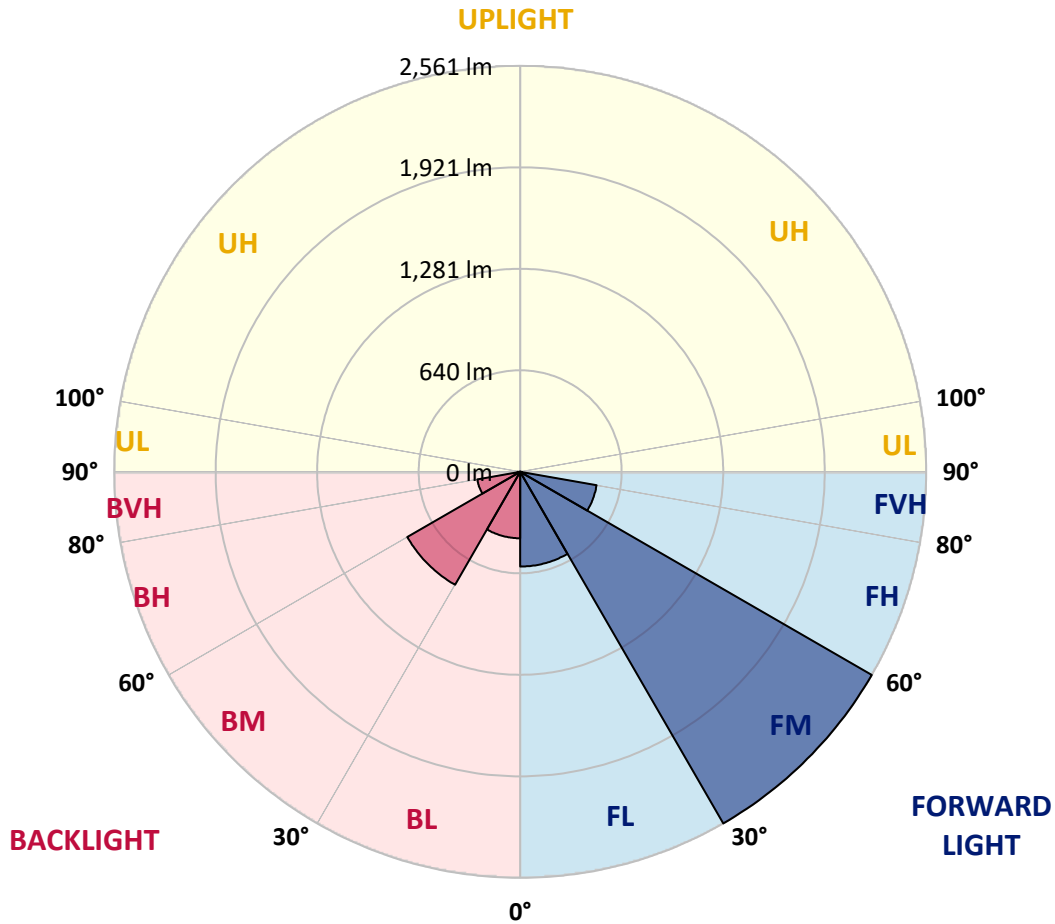


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 CATALOG NUMBER: GALN-SA1C-727-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.5	11.5			
FM (30°-60°)	2561.3	49.3			
FH (60°-80°)	489.6	9.4			G0/660
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	419.5	8.1	B1/500		
BM (30°-60°)	822.6	15.8	B1/1000		
BH (60°-80°)	275.0	5.3	B1/500		G1/500
BVH (80°-90°)	16.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1264.0	1260.8	1268.5	1274.3	1281.5	1290.5	1295.0	1297.6	1320.3	1314.5	1331.9
5°	1236.8	1228.4	1234.2	1238.8	1251.1	1262.1	1274.3	1293.8	1314.5	1323.5	1344.9
7.5°	1212.9	1208.4	1207.1	1210.3	1227.1	1241.4	1262.7	1291.2	1324.8	1339.7	1352.0
10°	1173.4	1167.0	1176.7	1198.0	1202.5	1232.3	1256.9	1297.6	1326.7	1352.6	1388.8
12.5°	1156.0	1149.5	1151.4	1163.7	1195.4	1223.9	1253.0	1298.9	1360.4	1370.7	1419.2
15°	1183.8	1177.3	1179.3	1176.0	1206.4	1221.3	1267.2	1324.8	1383.7	1401.1	1452.9
17.5°	1247.2	1247.8	1239.4	1232.3	1225.2	1256.9	1288.6	1340.3	1392.7	1436.7	1475.5
20°	1368.1	1346.8	1330.0	1289.9	1278.9	1292.5	1332.6	1382.4	1429.6	1465.8	1509.8
22.5°	1461.3	1463.2	1439.3	1373.3	1349.4	1355.2	1389.5	1430.2	1482.0	1507.9	1558.3
25°	1596.5	1582.9	1557.0	1504.6	1450.9	1455.5	1480.7	1517.6	1531.8	1549.9	1604.9
27.5°	1720.0	1723.9	1672.8	1623.7	1557.0	1544.1	1589.4	1595.8	1571.9	1606.2	1625.0
30°	1845.5	1842.3	1808.7	1751.1	1685.8	1688.3	1708.4	1676.7	1643.7	1662.5	1675.4
32.5°	1975.6	1938.7	1937.4	1885.6	1835.8	1811.9	1787.3	1802.8	1751.7	1755.6	1743.3
35°	2079.7	2084.9	2055.1	2018.3	1993.7	1951.6	1884.3	1912.2	1902.5	1897.9	1844.9
37.5°	2155.4	2135.3	2150.2	2137.9	2114.6	2062.2	1992.4	2018.9	2023.4	2045.4	1984.0
40°	2217.5	2209.1	2248.5	2255.0	2238.8	2125.6	2000.1	2079.1	2147.0	2194.8	2121.8
42.5°	2247.2	2265.4	2306.8	2356.6	2320.3	2199.4	2040.2	2125.0	2276.4	2352.0	2252.4
45°	2287.4	2264.1	2325.5	2416.7	2417.4	2261.5	2079.1	2187.1	2377.3	2487.2	2341.7
47.5°	2246.6	2258.2	2321.6	2437.4	2467.2	2326.8	2183.9	2275.1	2488.5	2586.2	2424.5
50°	2155.4	2178.7	2294.5	2414.8	2504.7	2396.0	2304.2	2370.2	2591.4	2665.8	2438.1
52.5°	2060.3	2073.2	2254.4	2432.3	2521.5	2485.3	2465.2	2501.5	2716.9	2755.7	2454.9
55°	1801.5	1863.0	2121.8	2424.5	2603.7	2646.4	2630.8	2683.9	2859.2	2898.0	2546.8
56°	1681.9	1714.2	2042.2	2388.3	2619.8	2705.2	2697.5	2721.4	2934.9	2975.6	2561.0
57.5°	1460.6	1463.2	1741.4	2227.8	2559.0	2722.7	2714.9	2733.7	2920.0	2892.2	2436.1
60°	914.0	954.1	1185.1	1713.6	2176.1	2526.1	2570.0	2419.3	2462.0	2403.1	1895.3
62.5°	473.5	467.7	621.0	1002.0	1444.5	1808.7	1849.4	1842.3	1776.3	1690.3	1238.1
65°	236.1	237.4	324.7	496.2	740.0	947.0	1060.9	1073.2	897.9	826.1	587.4
67.5°	171.4	177.9	233.5	303.4	348.7	390.1	478.0	469.0	355.1	337.7	313.1
70°	133.3	139.1	189.5	231.6	210.2	210.2	229.0	236.8	252.9	260.0	268.5
72.5°	97.0	101.6	144.9	159.8	137.8	148.1	171.4	189.5	206.4	208.9	218.6
75°	66.6	70.5	95.1	88.0	82.8	102.2	125.5	142.3	154.6	161.1	166.9
77.5°	43.3	44.6	54.3	45.9	53.0	66.0	81.5	95.7	108.0	113.2	114.5
80°	19.4	21.3	23.3	29.1	36.9	47.2	58.2	69.9	77.6	79.6	83.4
82.5°	11.0	11.0	14.2	20.7	27.2	34.3	42.0	50.5	59.5	61.5	60.8
85°	5.8	5.8	8.4	12.3	16.8	20.1	19.4	20.1	21.3	24.6	23.9
87.5°	1.9	1.9	2.6	2.6	3.2	3.9	3.2	4.5	5.8	5.8	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



REPORT NUMBER: P526530

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1326.7	1332.6	1324.8	1341.6	1341.6	1338.4	1322.2	1327.4	1331.3	1331.3	1334.5
5°	1352.0	1350.0	1355.2	1335.2	1322.9	1318.3	1291.8	1278.9	1267.9	1267.2	1257.5
7.5°	1366.2	1361.0	1359.1	1344.2	1289.9	1256.9	1200.0	1167.0	1159.8	1134.6	1144.3
10°	1388.8	1398.5	1388.8	1308.0	1232.3	1156.6	1101.0	1049.9	1029.8	1013.7	1004.0
12.5°	1435.4	1430.9	1374.6	1265.3	1159.2	1069.3	986.5	932.8	912.7	898.5	897.2
15°	1474.9	1452.2	1366.2	1198.0	1045.4	949.6	881.7	843.5	834.5	835.8	841.6
17.5°	1488.5	1472.9	1322.2	1128.2	960.6	848.1	816.4	810.5	818.9	828.6	831.2
20°	1509.8	1485.2	1304.1	1033.1	855.8	784.7	782.7	803.4	818.9	833.2	835.1
22.5°	1554.4	1492.3	1245.2	943.1	784.0	765.9	784.7	802.1	826.1	837.7	827.4
25°	1567.4	1476.8	1162.4	835.1	738.7	754.3	774.3	798.2	815.1	821.5	826.1
27.5°	1578.4	1452.9	1050.5	763.3	724.5	753.6	774.3	794.4	803.4	809.2	814.4
30°	1609.4	1445.8	953.5	715.4	715.4	740.7	767.2	772.4	784.7	791.8	800.8
32.5°	1625.0	1396.6	853.9	685.0	706.4	747.1	749.1	758.8	759.4	765.3	755.6
35°	1665.7	1361.7	761.4	663.0	710.3	740.7	750.4	744.6	712.9	697.3	700.6
37.5°	1695.5	1344.2	694.7	660.5	710.9	747.8	753.0	709.0	676.0	650.1	656.6
40°	1775.7	1300.9	644.3	655.9	716.7	755.6	741.3	693.5	633.9	607.4	602.9
42.5°	1837.1	1269.8	612.6	650.8	721.3	766.5	735.5	662.4	601.6	577.0	583.5
45°	1908.3	1262.7	595.8	652.1	729.0	772.4	728.4	638.5	573.8	564.1	562.1
47.5°	1933.5	1211.6	577.7	641.1	727.1	770.4	704.4	620.4	563.4	564.7	569.9
50°	1891.5	1159.2	564.1	618.4	714.2	753.0	666.9	596.4	557.6	573.8	582.8
52.5°	1837.8	1105.5	536.3	588.0	687.6	725.8	649.5	595.1	551.8	546.6	548.6
55°	1853.9	1061.5	497.4	546.6	644.9	675.3	630.1	582.8	537.6	518.1	524.6
56°	1801.5	1016.2	472.2	520.7	615.8	643.0	620.4	571.8	525.9	513.0	513.0
57.5°	1653.4	864.2	439.2	479.3	554.4	586.7	601.6	565.4	513.0	490.3	491.0
60°	1219.4	614.5	393.9	422.4	459.3	485.2	554.4	547.3	480.6	465.1	459.3
62.5°	751.7	448.9	361.6	372.6	391.4	412.7	483.9	495.5	446.3	429.5	425.6
65°	421.1	343.5	337.0	341.6	350.6	361.6	401.7	427.6	393.9	368.1	366.8
67.5°	307.9	307.3	312.4	316.3	320.2	320.2	329.9	340.3	335.7	315.0	313.1
70°	273.6	275.6	279.5	280.1	281.4	276.9	269.1	265.9	271.0	258.1	255.5
72.5°	225.8	232.2	236.8	237.4	230.3	224.5	214.1	203.1	199.2	196.7	196.0
75°	173.4	177.9	179.8	179.2	176.6	168.2	155.9	144.9	137.8	130.0	133.9
77.5°	117.1	123.6	126.8	126.8	122.9	110.0	104.1	95.7	88.6	80.2	81.5
80°	82.2	86.7	91.9	91.2	84.7	78.3	69.9	62.1	56.3	49.8	49.2
82.5°	61.5	64.0	66.6	65.3	60.8	54.3	48.5	41.4	34.9	30.4	30.4
85°	22.0	23.9	29.1	30.4	33.0	33.0	27.8	23.3	18.8	15.5	15.5
87.5°	6.5	6.5	7.1	7.1	6.5	7.1	5.8	6.5	7.1	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)