

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: P527154

Luminaire Tested: **GALN-SA2A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527154
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-SA2A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5901 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

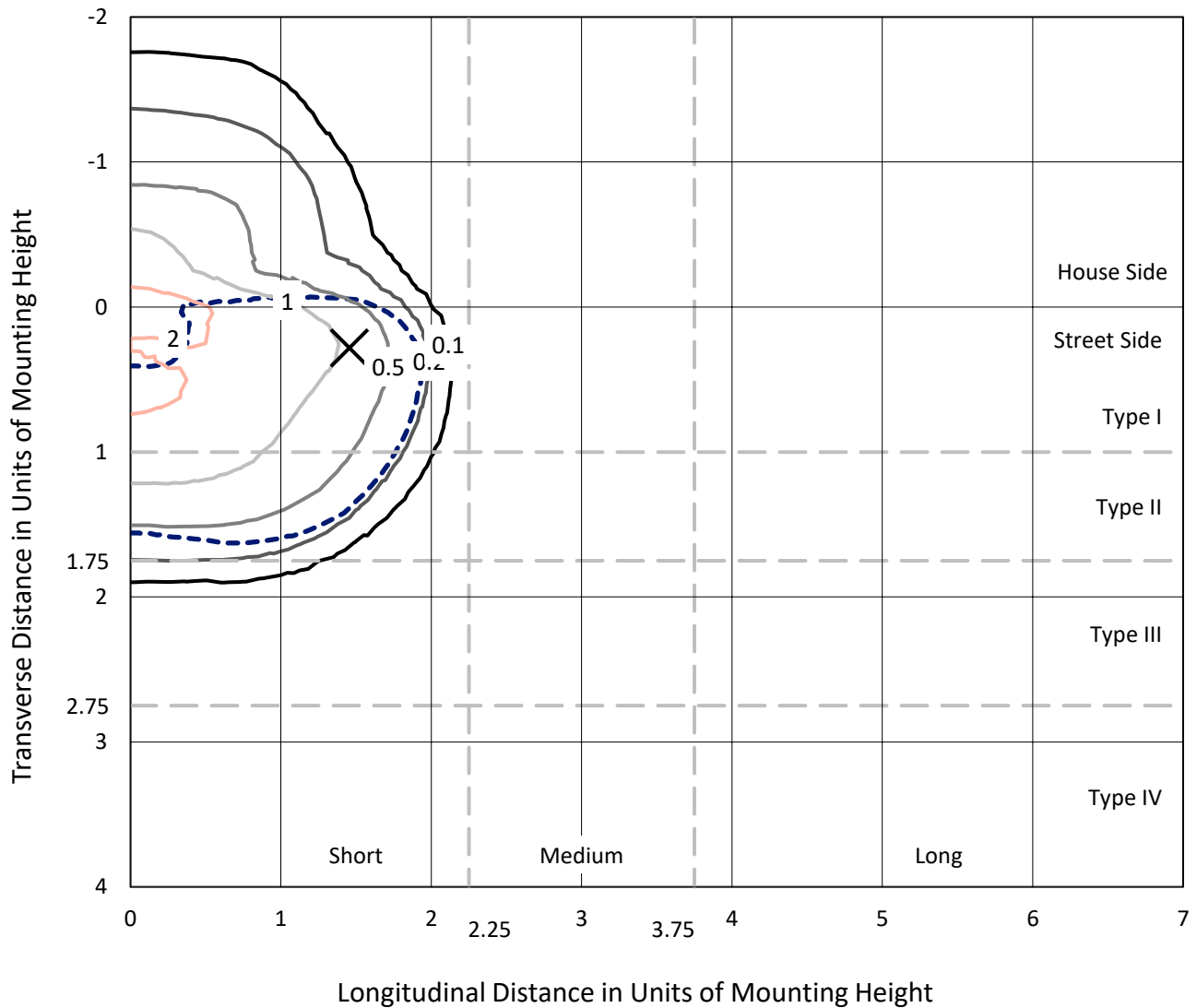
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527154
 CATALOG NUMBER: GALN-SA2A-827-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

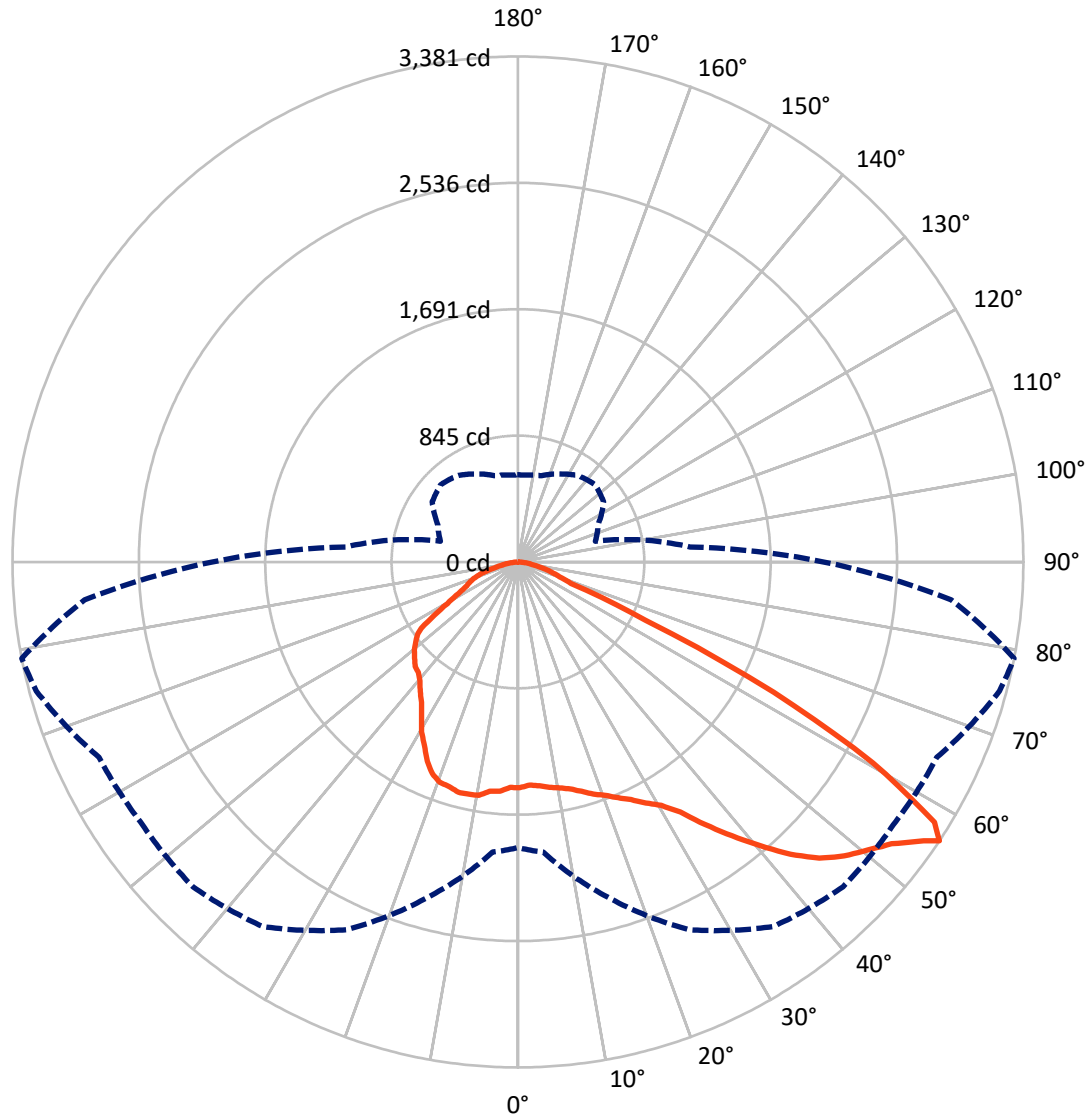
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P527154
CATALOG NUMBER: GALN-SA2A-827-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

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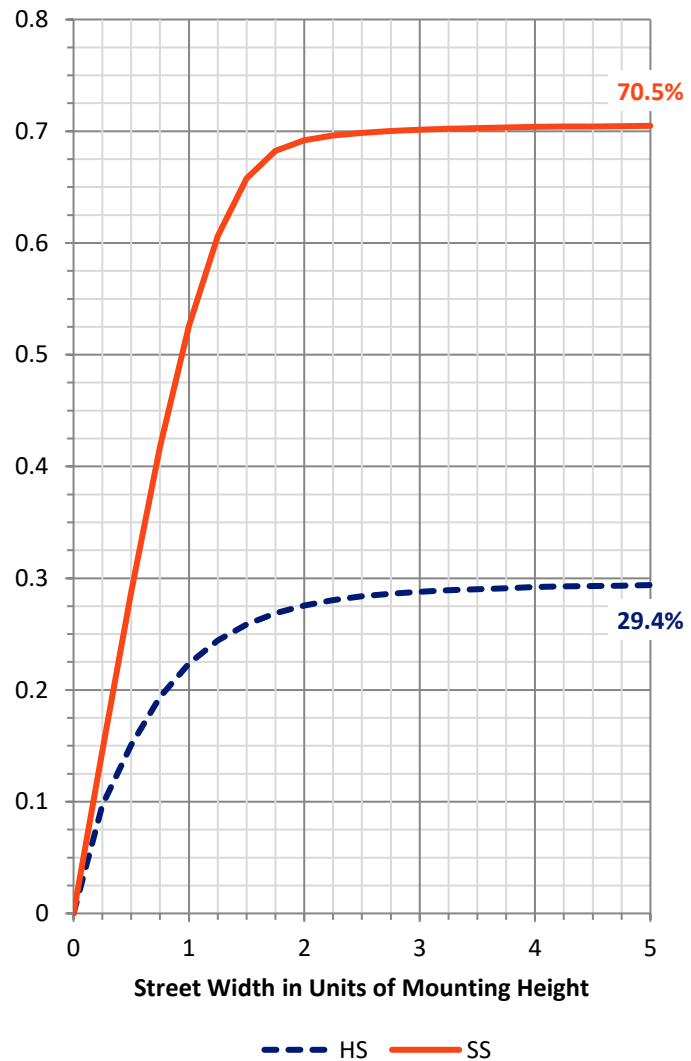
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1742.7	0.0	1742.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	4158.3	0.0	4158.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	5901.0	0.0	5901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	2.3
10°-20°	375.7	6.4
20°-30°	642.7	10.9
30°-40°	985.0	16.7
40°-50°	1331.3	22.6
50°-60°	1529.0	25.9
60°-70°	697.0	11.8
70°-80°	171.8	2.9
80°-90°	31.2	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°	5901.0	100.0
0°-180°	5901.0	100.0

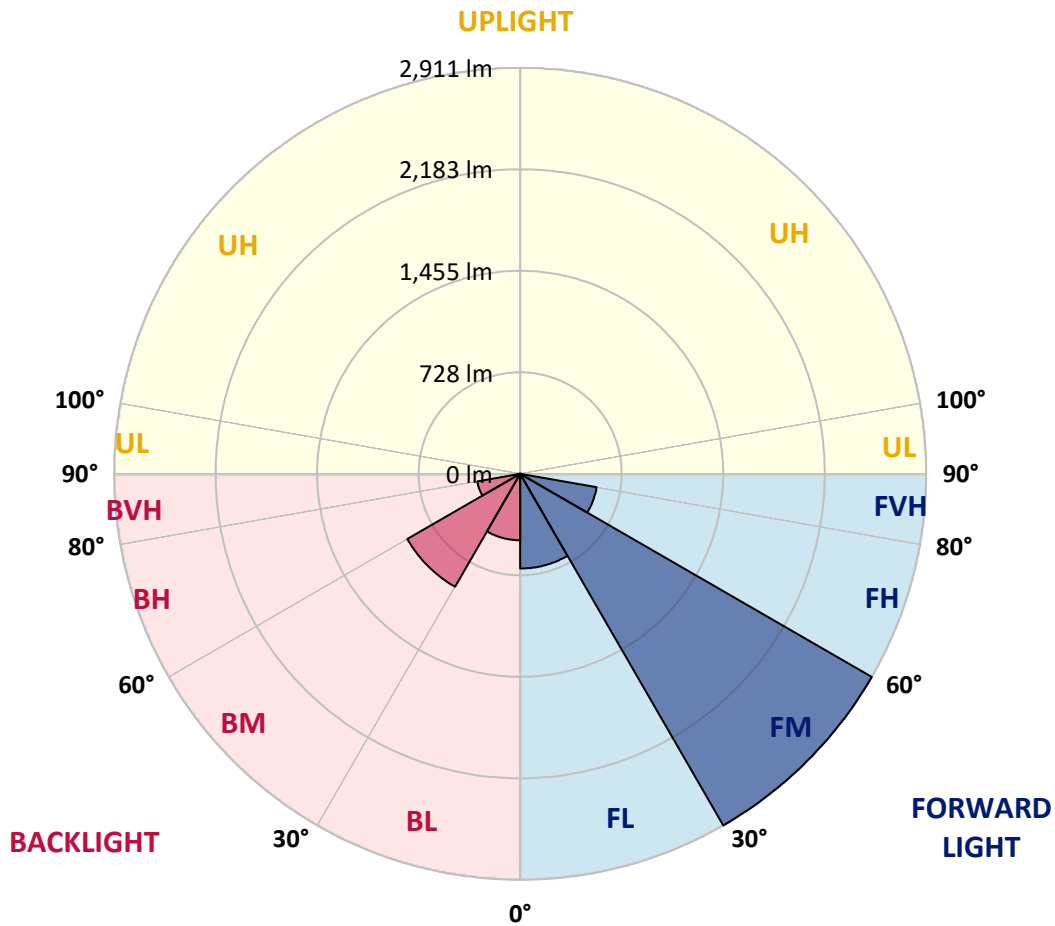


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.0	11.5			
FM (30°-60°)	2910.5	49.3			
FH (60°-80°)	556.3	9.4			G0/660
FVH (80°-90°)	12.5	0.2			G1/100
BL (0°-30°)	476.7	8.1	B1/500		
BM (30°-60°)	934.8	15.8	B1/1000		
BH (60°-80°)	312.5	5.3	B1/500		G1/500
BVH (80°-90°)	18.8	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: P527154

CATALOG NUMBER: GALN-SA2A-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1436.3	1432.6	1441.5	1448.1	1456.2	1466.5	1471.6	1474.5	1500.3	1493.7	1513.5
5°	1405.5	1395.9	1402.5	1407.7	1421.6	1434.1	1448.1	1470.1	1493.7	1504.0	1528.2
7.5°	1378.3	1373.1	1371.6	1375.3	1394.4	1410.6	1434.9	1467.2	1505.4	1522.3	1536.3
10°	1333.4	1326.1	1337.1	1361.3	1366.5	1400.3	1428.2	1474.5	1507.6	1537.0	1578.2
12.5°	1313.6	1306.2	1308.4	1322.4	1358.4	1390.8	1423.8	1476.0	1545.9	1557.6	1612.7
15°	1345.2	1337.8	1340.0	1336.4	1370.9	1387.8	1440.0	1505.4	1572.3	1592.2	1651.0
17.5°	1417.2	1417.9	1408.4	1400.3	1392.2	1428.2	1464.3	1523.1	1582.6	1632.6	1676.7
20°	1554.7	1530.4	1511.3	1465.7	1453.2	1468.7	1514.2	1570.8	1624.5	1665.7	1715.7
22.5°	1660.5	1662.7	1635.5	1560.6	1533.4	1540.0	1578.9	1625.2	1684.0	1713.4	1770.8
25°	1814.2	1798.7	1769.3	1709.8	1648.8	1653.9	1682.6	1724.5	1740.6	1761.2	1823.7
27.5°	1954.5	1959.0	1900.9	1845.0	1769.3	1754.6	1806.1	1813.4	1786.2	1825.2	1846.5
30°	2097.2	2093.5	2055.3	1989.8	1915.6	1918.5	1941.3	1905.3	1867.8	1889.1	1903.8
32.5°	2244.9	2203.0	2201.5	2142.7	2086.1	2058.9	2031.0	2048.6	1990.6	1995.0	1981.0
35°	2363.2	2369.1	2335.3	2293.4	2265.5	2217.7	2141.3	2172.9	2161.8	2156.7	2096.4
37.5°	2449.3	2426.5	2443.4	2429.4	2402.9	2343.4	2264.0	2294.2	2299.3	2324.3	2254.5
40°	2519.8	2510.3	2555.1	2562.5	2544.1	2415.4	2272.8	2362.5	2439.7	2494.1	2411.0
42.5°	2553.6	2574.2	2621.3	2677.9	2636.7	2499.2	2318.4	2414.7	2586.7	2672.7	2559.5
45°	2599.2	2572.7	2642.6	2746.2	2747.0	2569.8	2362.5	2485.3	2701.4	2826.3	2661.0
47.5°	2552.9	2566.1	2638.2	2769.7	2803.6	2644.0	2481.6	2585.2	2827.8	2938.8	2755.0
50°	2449.3	2475.7	2607.3	2744.0	2846.2	2722.7	2618.3	2693.3	2944.7	3029.2	2770.5
52.5°	2341.2	2355.9	2561.7	2763.9	2865.3	2824.1	2801.3	2842.5	3087.3	3131.4	2789.6
55°	2047.2	2117.0	2411.0	2755.0	2958.7	3007.2	2989.5	3049.8	3249.0	3293.1	2894.0
56°	1911.2	1947.9	2320.6	2713.9	2977.0	3074.1	3065.2	3092.4	3335.0	3381.3	2910.1
57.5°	1659.8	1662.7	1978.8	2531.6	2907.9	3093.9	3085.1	3106.4	3318.1	3286.5	2768.3
60°	1038.7	1084.2	1346.6	1947.2	2472.8	2870.4	2920.4	2749.2	2797.7	2730.8	2153.8
62.5°	538.1	531.5	705.7	1138.6	1641.4	2055.3	2101.6	2093.5	2018.5	1920.7	1406.9
65°	268.3	269.8	369.0	563.8	840.9	1076.1	1205.5	1219.5	1020.3	938.7	667.4
67.5°	194.8	202.1	265.4	344.7	396.2	443.2	543.2	532.9	403.6	383.7	355.8
70°	151.4	158.0	215.4	263.2	238.9	238.9	260.2	269.0	287.4	295.5	305.1
72.5°	110.3	115.4	164.7	181.6	156.6	168.3	194.8	215.4	234.5	237.4	248.5
75°	75.7	80.1	108.1	100.0	94.1	116.1	142.6	161.7	175.7	183.0	189.6
77.5°	49.2	50.7	61.7	52.2	60.3	75.0	92.6	108.8	122.8	128.6	130.1
80°	22.1	24.3	26.5	33.1	41.9	53.7	66.2	79.4	88.2	90.4	94.8
82.5°	12.5	12.5	16.2	23.5	30.9	39.0	47.8	57.3	67.6	69.8	69.1
85°	6.6	6.6	9.6	14.0	19.1	22.8	22.1	22.8	24.3	27.9	27.2
87.5°	2.2	2.2	2.9	2.9	3.7	4.4	3.7	5.1	6.6	6.6	6.6
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: P527154

CATALOG NUMBER: GALN-SA2A-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1507.6	1514.2	1505.4	1524.5	1524.5	1520.9	1502.5	1508.4	1512.8	1512.8	1516.4
5°	1536.3	1534.1	1540.0	1517.2	1503.2	1498.1	1467.9	1453.2	1440.7	1440.0	1429.0
7.5°	1552.5	1546.6	1544.4	1527.5	1465.7	1428.2	1363.6	1326.1	1318.0	1289.3	1300.3
10°	1578.2	1589.2	1578.2	1486.3	1400.3	1314.3	1251.1	1193.0	1170.2	1151.9	1140.8
12.5°	1631.1	1626.0	1562.0	1437.8	1317.2	1215.1	1121.0	1060.0	1037.2	1021.0	1019.5
15°	1676.0	1650.2	1552.5	1361.3	1187.9	1079.1	1001.9	958.5	948.2	949.7	956.3
17.5°	1691.4	1673.8	1502.5	1282.0	1091.6	963.7	927.7	921.0	930.6	941.6	944.6
20°	1715.7	1687.7	1481.9	1173.9	972.5	891.6	889.4	913.0	930.6	946.8	949.0
22.5°	1766.4	1695.8	1415.0	1071.7	890.9	870.3	891.6	911.5	938.7	951.9	940.2
25°	1781.1	1678.2	1320.9	949.0	839.4	857.1	879.9	907.1	926.2	933.5	938.7
27.5°	1793.6	1651.0	1193.8	867.4	823.3	856.4	879.9	902.7	913.0	919.6	925.5
30°	1828.9	1642.9	1083.5	813.0	813.0	841.7	871.8	877.7	891.6	899.7	910.0
32.5°	1846.5	1587.0	970.3	778.4	802.7	849.0	851.2	862.2	863.0	869.6	858.6
35°	1892.8	1547.3	865.2	753.4	807.1	841.7	852.7	846.1	810.0	792.4	796.1
37.5°	1926.6	1527.5	789.5	750.5	807.8	849.7	855.6	805.6	768.1	738.7	746.1
40°	2017.8	1478.2	732.1	745.4	814.5	858.6	842.4	788.0	720.4	690.2	685.1
42.5°	2087.6	1442.9	696.1	739.5	819.6	871.1	835.8	752.7	683.6	655.7	663.0
45°	2168.5	1434.9	677.0	740.9	828.4	877.7	827.7	725.5	652.0	641.0	638.8
47.5°	2197.1	1376.8	656.4	728.5	826.2	875.5	800.5	704.9	640.2	641.7	647.6
50°	2149.3	1317.2	641.0	702.7	811.5	855.6	757.9	677.7	633.6	652.0	662.3
52.5°	2088.3	1256.2	609.4	668.2	781.4	824.7	738.0	676.3	627.0	621.1	623.3
55°	2106.7	1206.2	565.3	621.1	732.9	767.4	716.0	662.3	610.8	588.8	596.1
56°	2047.2	1154.8	536.6	591.7	699.8	730.7	704.9	649.8	597.6	582.9	582.9
57.5°	1878.8	982.1	499.1	544.7	630.0	666.7	683.6	642.5	582.9	557.2	557.9
60°	1385.6	698.3	447.7	480.0	521.9	551.3	630.0	621.9	546.2	528.5	521.9
62.5°	854.2	510.1	410.9	423.4	444.7	469.0	549.8	563.1	507.2	488.1	483.7
65°	478.5	390.3	383.0	388.1	398.4	410.9	456.5	485.9	447.7	418.3	416.8
67.5°	349.9	349.2	355.0	359.4	363.9	363.9	374.9	386.6	381.5	358.0	355.8
70°	310.9	313.1	317.5	318.3	319.8	314.6	305.8	302.1	308.0	293.3	290.4
72.5°	256.5	263.9	269.0	269.8	261.7	255.1	243.3	230.8	226.4	223.5	222.7
75°	197.0	202.1	204.3	203.6	200.7	191.1	177.2	164.7	156.6	147.7	152.2
77.5°	133.0	140.4	144.1	144.1	139.7	125.0	118.3	108.8	100.7	91.1	92.6
80°	93.4	98.5	104.4	103.6	96.3	88.9	79.4	70.6	64.0	56.6	55.9
82.5°	69.8	72.8	75.7	74.2	69.1	61.7	55.1	47.0	39.7	34.5	34.5
85°	25.0	27.2	33.1	34.5	37.5	37.5	31.6	26.5	21.3	17.6	17.6
87.5°	7.4	7.4	8.1	8.1	7.4	8.1	6.6	7.4	8.1	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

(END OF REPORT)