

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: P527142

Luminaire Tested: **GALN-SA2A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5720 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

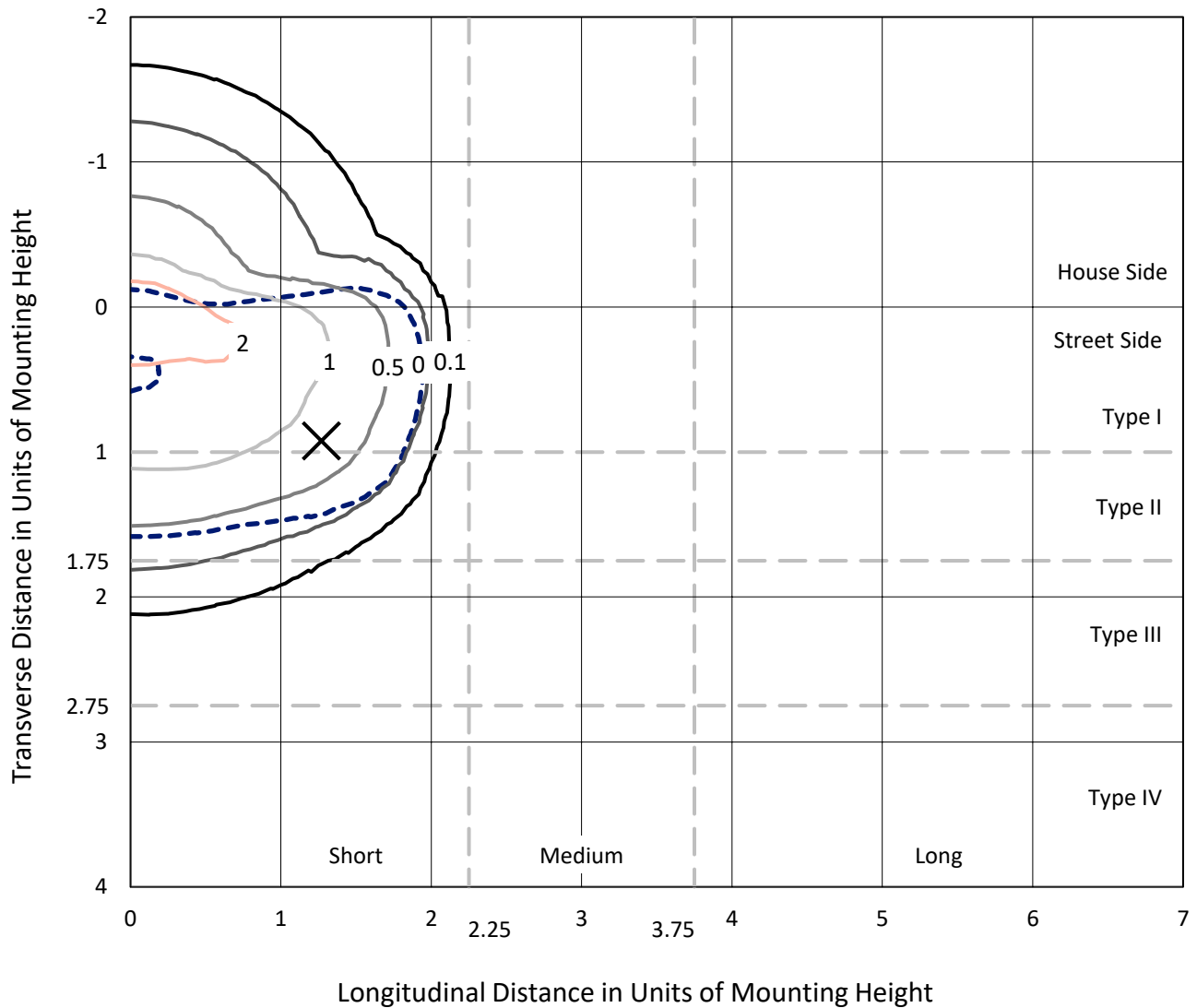
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527142
 CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

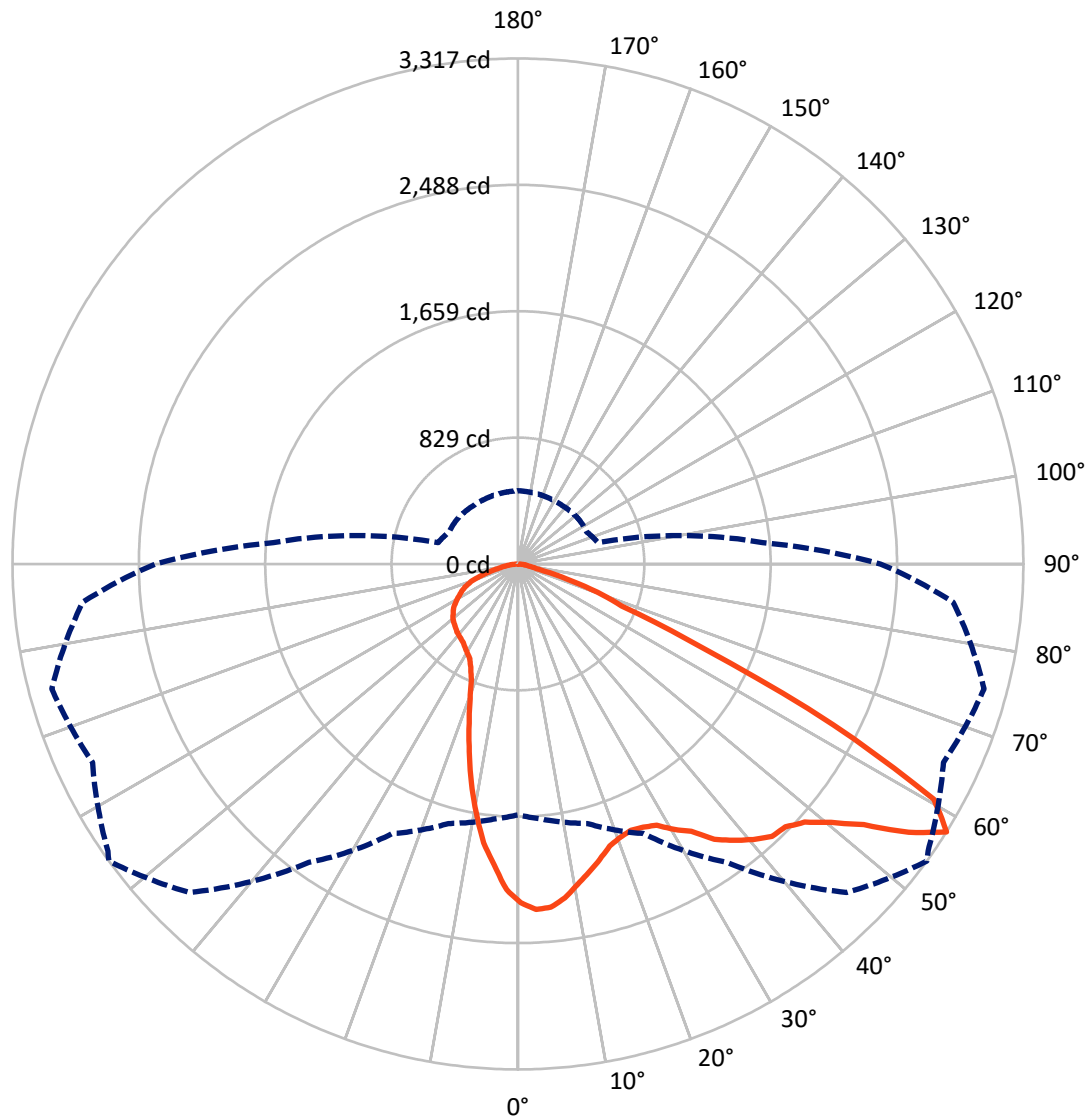
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P527142
CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P527142
 CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

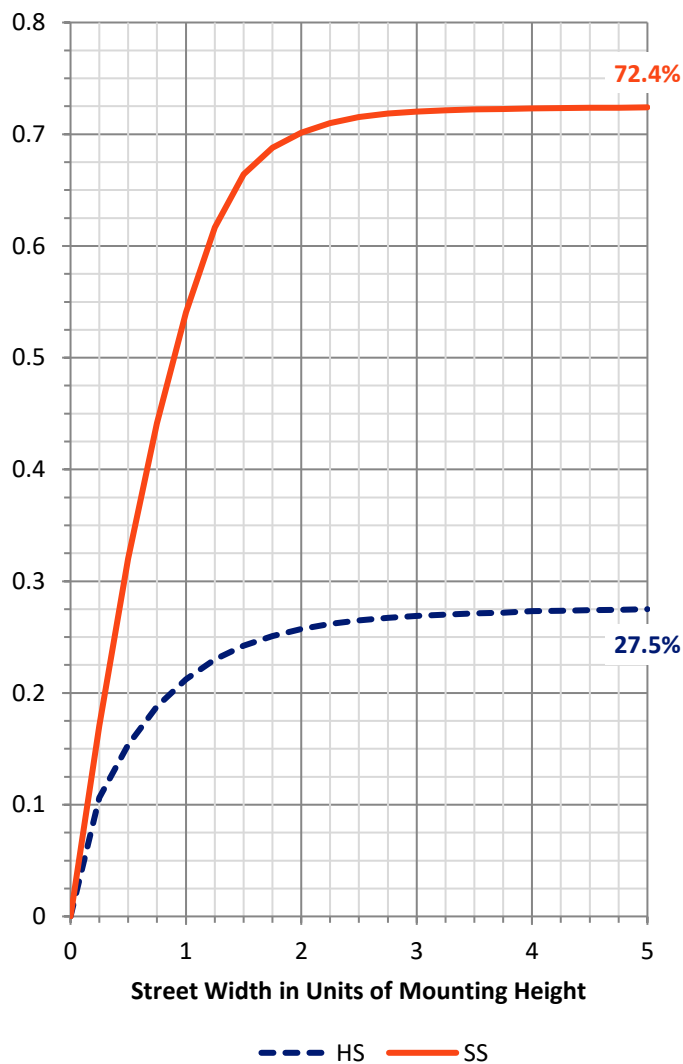
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1582.5	0.0	1582.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	4137.5	0.0	4137.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	5720.0	0.0	5720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.4
10°-20°	443.9	7.8
20°-30°	623.7	10.9
30°-40°	872.0	15.2
40°-50°	1180.5	20.6
50°-60°	1437.9	25.1
60°-70°	748.9	13.1
70°-80°	191.9	3.4
80°-90°	29.3	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°	5720.0	100.0
0°-180°	5720.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527142

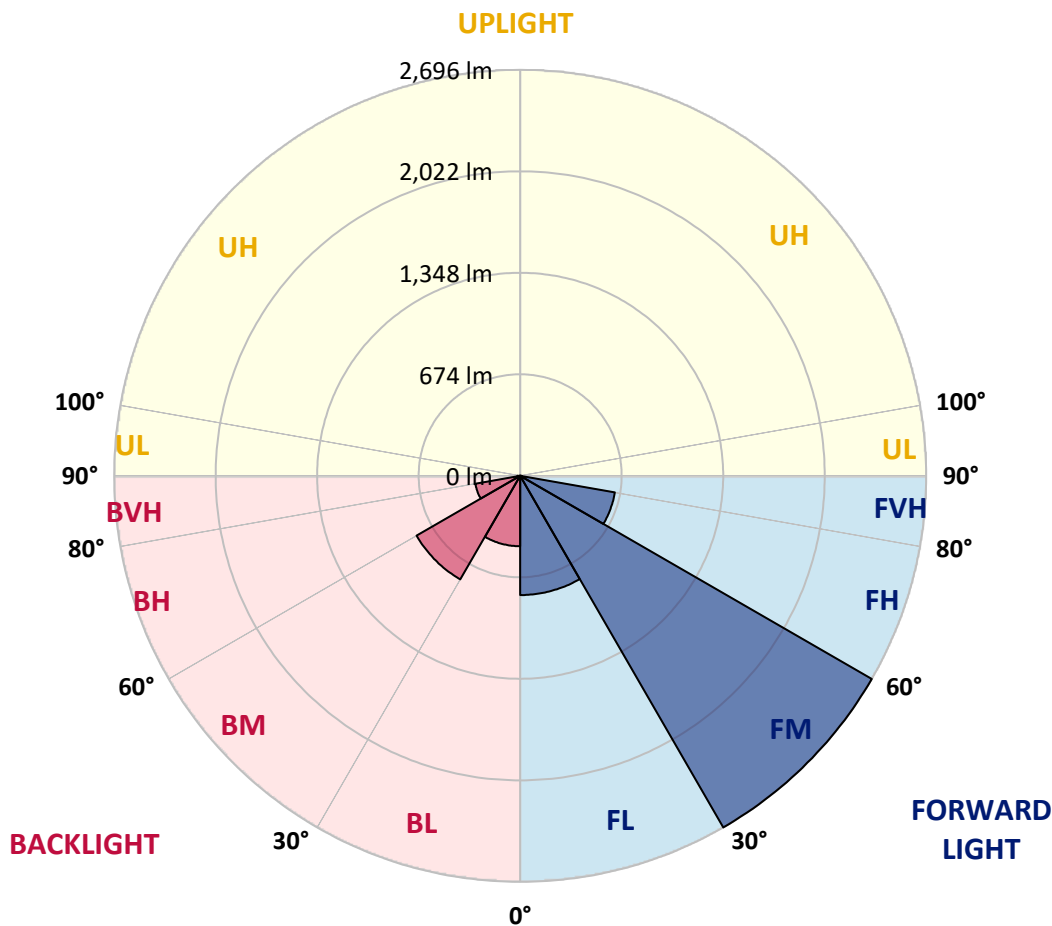
CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.7	13.8			
FM (30°-60°)	2696.2	47.1			
FH (60°-80°)	638.5	11.2			G0/660
FVH (80°-90°)	11.1	0.2			G1/100
BL (0°-30°)	467.7	8.2	B1/500		
BM (30°-60°)	794.2	13.9	B1/1000		
BH (60°-80°)	302.3	5.3	B1/500		G1/500
BVH (80°-90°)	18.2	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: P527142

CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3
2.5°	2286.5	2277.7	2279.2	2290.9	2276.2	2270.4	2270.4	2241.7	2243.9	2224.0	2218.9
5°	2233.6	2213.0	2227.0	2244.6	2247.6	2253.4	2263.0	2255.6	2235.1	2213.7	2179.2
7.5°	2095.4	2113.8	2118.9	2131.4	2157.9	2182.1	2212.3	2191.7	2190.9	2169.6	2149.0
10°	1974.1	1963.0	1991.0	2009.4	2053.5	2093.9	2140.2	2138.0	2149.0	2124.8	2089.5
12.5°	1853.5	1844.7	1857.9	1899.8	1961.6	2020.4	2075.5	2054.9	2113.8	2109.3	2033.6
15°	1725.6	1732.2	1751.3	1790.3	1871.1	1941.7	2011.6	2012.3	2064.5	2082.1	1980.7
17.5°	1635.9	1628.5	1652.8	1710.9	1782.9	1867.5	1946.9	1963.0	2043.2	2053.5	1964.5
20°	1569.0	1579.2	1610.9	1640.3	1723.4	1825.5	1915.2	1921.1	2038.8	2066.7	1938.8
22.5°	1552.8	1546.9	1557.2	1605.0	1673.4	1784.4	1898.3	1920.4	2038.0	2062.3	1890.2
25°	1535.9	1555.0	1554.3	1602.0	1652.0	1751.3	1912.3	1936.6	2077.0	2085.1	1896.9
27.5°	1574.1	1571.9	1592.5	1596.2	1657.9	1760.1	1941.7	1960.1	2141.7	2135.1	1902.0
30°	1612.3	1601.3	1613.8	1657.2	1685.9	1810.8	2022.6	2021.1	2225.5	2221.1	1918.2
32.5°	1659.4	1654.2	1662.3	1700.6	1749.1	1878.5	2091.0	2134.3	2310.8	2338.7	1974.1
35°	1668.2	1689.5	1708.6	1760.1	1829.2	1988.0	2219.6	2255.6	2409.3	2496.8	2080.7
37.5°	1724.1	1732.2	1777.0	1868.2	1931.4	2134.3	2301.2	2324.0	2499.0	2598.3	2193.2
40°	1783.6	1793.2	1860.8	1956.4	2043.2	2229.9	2377.7	2385.0	2527.7	2676.2	2266.7
42.5°	1864.5	1873.3	1940.2	2060.1	2176.2	2311.5	2445.3	2453.4	2525.5	2765.9	2383.6
45°	1948.3	1969.6	2048.3	2184.3	2288.7	2407.1	2460.8	2493.9	2546.1	2846.0	2478.4
47.5°	2066.0	2085.8	2150.5	2283.6	2405.6	2490.9	2532.1	2564.4	2595.3	2915.9	2539.4
50°	2190.9	2194.6	2273.3	2393.9	2483.6	2585.8	2665.2	2676.2	2660.0	2996.7	2643.1
52.5°	2282.9	2294.6	2355.6	2473.3	2607.1	2732.8	2841.6	2853.4	2821.8	3026.9	2678.4
55°	2130.7	2124.0	2223.3	2379.9	2690.2	2951.9	3110.0	3118.8	2939.4	3120.3	2793.8
57.5°	1646.9	1678.5	1763.1	1952.0	2390.2	3048.9	3317.3	3285.7	3080.6	3167.3	2867.3
60°	1196.9	1189.6	1246.2	1372.7	1801.3	2627.7	3136.4	3168.8	2965.1	2854.9	2364.5
62.5°	974.9	964.6	969.0	973.4	1162.4	1743.9	2321.8	2321.1	2283.6	2052.0	1594.7
65°	779.3	803.6	805.8	838.9	863.1	1041.8	1345.4	1417.5	1234.4	1012.4	734.5
67.5°	587.4	578.6	608.0	725.7	771.2	752.1	734.5	742.6	527.9	380.8	358.8
70°	346.3	342.6	377.9	505.8	635.2	597.7	553.6	554.4	362.5	266.1	296.3
72.5°	189.7	189.0	196.3	256.6	361.0	375.0	332.3	342.6	216.2	215.4	231.6
75°	105.9	103.7	101.5	113.2	130.1	137.5	140.4	141.9	148.5	166.2	172.8
77.5°	39.0	37.5	37.5	43.4	55.1	69.1	87.5	89.0	105.1	120.6	127.2
80°	13.2	14.7	19.9	27.2	36.8	49.3	59.6	61.0	74.3	84.6	86.8
82.5°	8.1	8.8	13.2	19.1	26.5	34.6	44.1	44.8	55.1	61.8	64.7
85°	3.7	4.4	7.4	11.8	16.9	22.8	23.5	23.5	22.8	23.5	22.1
87.5°	0.0	0.0	1.5	1.5	1.5	2.2	2.9	2.2	3.7	4.4	4.4
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: P527142

CATALOG NUMBER: GALN-SA2A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3	2223.3
2.5°	2203.4	2195.4	2170.4	2148.3	2141.7	2112.3	2068.9	2074.0	2042.4	2057.1	2041.7
5°	2173.3	2146.1	2082.1	2054.9	1983.6	1951.3	1929.2	1874.1	1848.3	1843.2	1821.1
7.5°	2096.1	2079.2	1999.1	1925.5	1849.8	1785.1	1702.0	1645.4	1605.0	1594.0	1561.6
10°	2035.1	1997.6	1886.6	1774.8	1666.7	1554.3	1446.2	1361.6	1320.5	1272.7	1256.5
12.5°	1974.8	1918.2	1768.2	1624.8	1485.1	1343.2	1212.4	1109.4	1019.7	998.4	991.1
15°	1937.3	1838.8	1662.3	1489.6	1291.0	1105.8	974.9	907.3	852.1	829.3	845.5
17.5°	1888.0	1773.3	1560.9	1330.7	1112.4	941.8	832.3	790.4	770.5	772.7	766.1
20°	1826.3	1711.6	1427.8	1186.6	952.8	816.8	754.3	738.9	741.8	747.0	744.8
22.5°	1782.2	1636.6	1331.5	1039.6	823.4	747.7	722.0	711.0	720.5	724.9	721.2
25°	1748.3	1572.6	1214.6	909.5	748.5	708.7	697.0	696.3	711.0	716.8	713.2
27.5°	1717.5	1513.1	1098.4	810.2	698.5	678.6	674.9	683.8	693.3	699.2	704.3
30°	1699.1	1467.5	989.6	727.1	673.5	663.9	657.3	665.4	670.5	676.4	673.5
32.5°	1716.7	1435.1	884.5	680.1	652.9	643.3	652.1	647.0	655.8	661.0	652.9
35°	1771.9	1406.5	809.5	655.1	629.3	633.0	634.5	632.3	636.0	631.6	641.1
37.5°	1826.3	1396.2	740.4	633.8	618.3	618.3	616.8	612.4	619.8	618.3	622.7
40°	1895.4	1402.8	681.5	611.0	608.0	606.6	600.7	599.9	597.0	597.7	599.2
42.5°	1955.7	1417.5	647.7	596.3	598.5	601.4	590.4	581.6	585.2	577.9	577.9
45°	2019.6	1430.7	617.6	586.0	583.8	583.0	574.2	569.1	566.1	566.9	573.5
47.5°	2120.4	1449.8	594.8	572.0	573.5	562.4	560.2	553.6	556.6	561.0	561.7
50°	2191.7	1490.3	577.1	555.8	561.0	553.6	540.4	537.4	537.4	544.8	543.3
52.5°	2241.7	1546.9	560.2	538.2	540.4	534.5	530.1	523.5	519.1	529.4	534.5
55°	2394.6	1641.0	555.8	523.5	522.7	516.9	508.8	502.2	499.9	501.4	511.7
57.5°	2379.9	1611.6	541.9	497.7	496.3	488.2	480.1	477.9	477.2	478.6	481.6
60°	1932.2	1190.3	483.8	468.3	466.1	464.7	456.6	447.7	443.3	447.7	444.1
62.5°	1278.5	797.0	426.4	433.0	434.5	430.8	417.6	408.8	410.3	415.4	407.3
65°	627.9	468.3	386.7	404.4	405.8	395.5	383.0	372.8	367.6	372.0	368.3
67.5°	358.8	358.1	354.4	372.8	372.0	361.7	341.9	333.1	324.2	325.7	323.5
70°	304.4	310.3	317.6	328.6	327.9	316.1	292.6	286.0	273.5	272.0	268.4
72.5°	239.7	250.0	266.1	274.2	267.6	252.9	237.5	226.4	215.4	208.8	211.0
75°	177.9	192.6	201.4	206.6	196.3	188.2	175.7	162.5	149.2	143.4	141.2
77.5°	129.4	133.8	141.9	145.6	139.0	130.9	123.5	110.3	97.8	89.7	87.5
80°	90.4	93.4	99.3	99.3	99.3	95.6	86.0	72.8	64.7	57.3	55.9
82.5°	63.2	66.2	72.1	69.1	68.4	64.0	58.1	47.8	39.0	33.8	32.3
85°	22.1	24.3	29.4	35.3	37.5	36.8	33.1	26.5	20.6	16.9	15.4
87.5°	5.1	5.1	5.9	5.1	5.1	5.9	5.1	5.1	5.1	3.7	2.9
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)