

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: P527893

Luminaire Tested: **GALN-SA3A-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5857 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

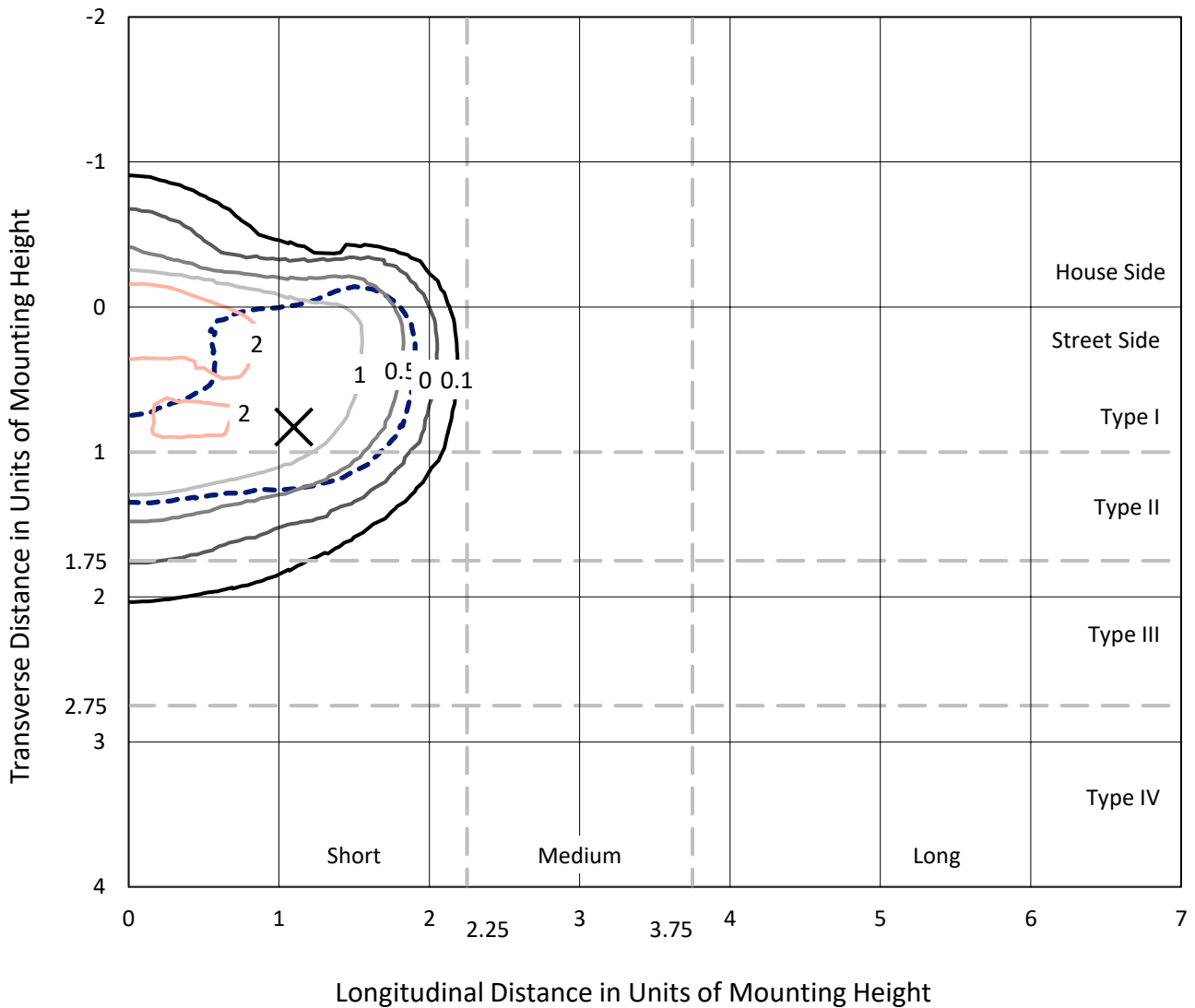
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527893
 CATALOG NUMBER: GALN-SA3A-722-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

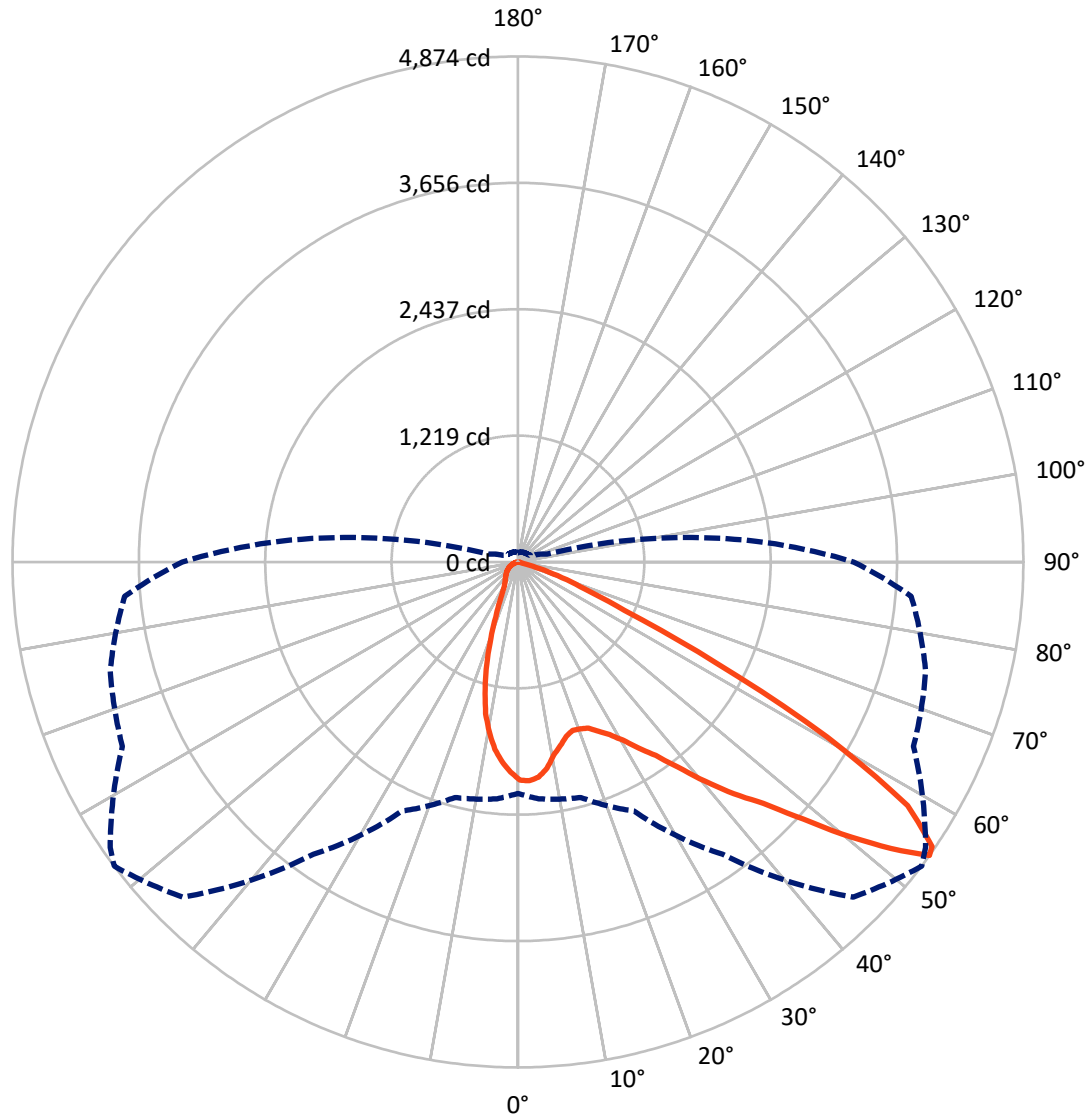
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P527893
CATALOG NUMBER: GALN-SA3A-722-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P527893
 CATALOG NUMBER: GALN-SA3A-722-U-SL2-GRSBK

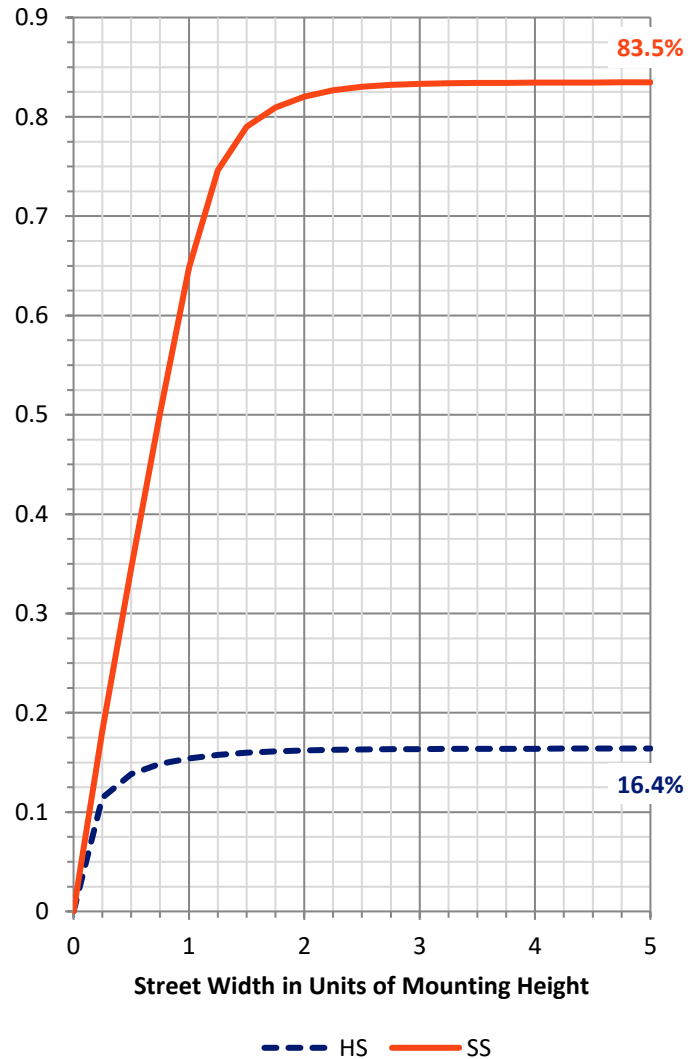
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.1	0.0	969.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4887.9	0.0	4887.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	5857.0	0.0	5857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.1
10°-20°	413.8	7.1
20°-30°	588.1	10.0
30°-40°	907.6	15.5
40°-50°	1423.1	24.3
50°-60°	1653.1	28.2
60°-70°	624.6	10.7
70°-80°	59.4	1.0
80°-90°	6.7	0.1
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°	5857.0	100.0
0°-180°	5857.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527893

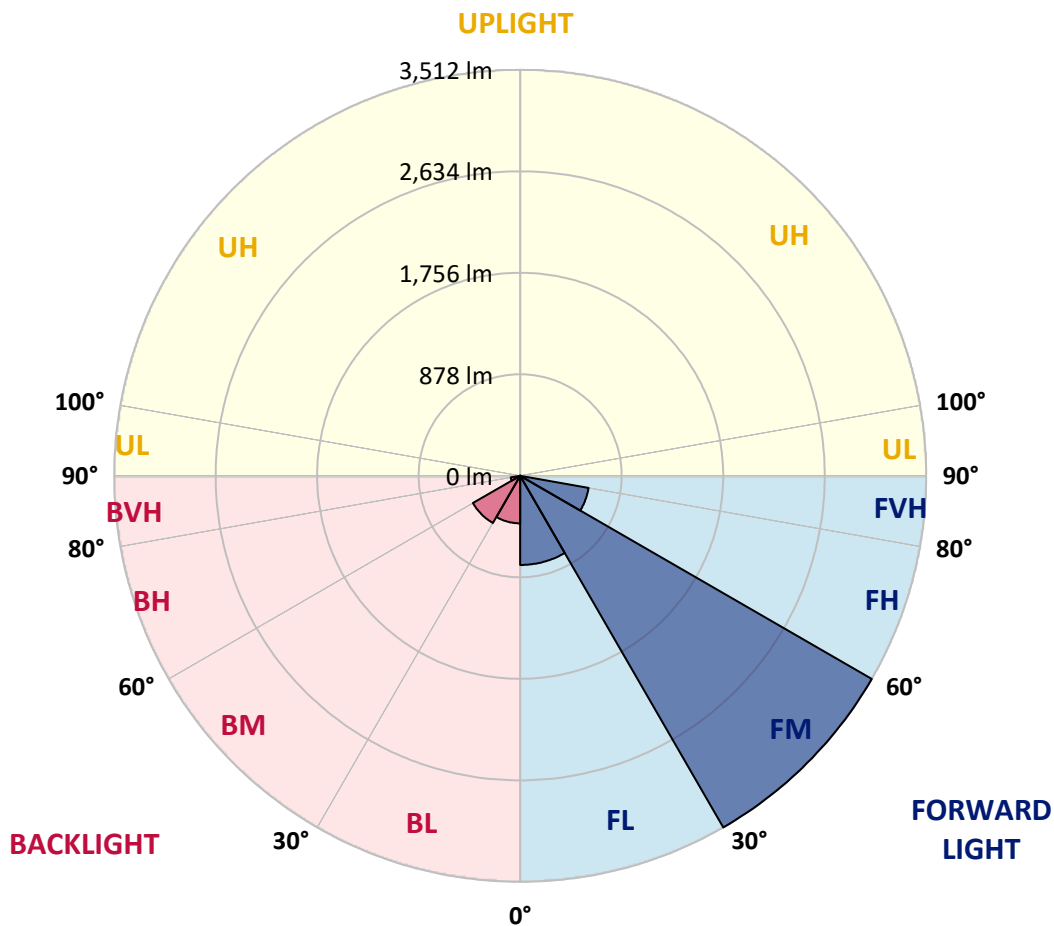
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.2	13.2			
FM (30°-60°)	3512.3	60.0			
FH (60°-80°)	601.0	10.3			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	411.2	7.0	B1/500		
BM (30°-60°)	471.6	8.1	B1/1000		
BH (60°-80°)	83.0	1.4	B0/110		G0/110
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





REPORT NUMBER: P527893

CATALOG NUMBER: GALN-SA3A-722-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7
2.5°	2092.8	2074.3	2092.8	2095.0	2108.1	2120.1	2112.5	2129.9	2120.1	2109.2	2105.9
5°	1923.7	1948.8	1949.9	1989.2	1980.4	2052.5	2084.1	2075.4	2128.8	2125.6	2117.9
7.5°	1772.0	1762.2	1775.3	1821.1	1879.0	1961.9	2007.7	2006.6	2083.0	2137.6	2132.1
10°	1631.3	1630.2	1657.5	1693.5	1742.6	1829.9	1893.1	1924.8	2043.7	2126.6	2138.7
12.5°	1536.3	1532.0	1561.4	1590.9	1668.4	1736.0	1816.8	1832.0	1968.4	2088.5	2108.1
15°	1474.1	1484.0	1486.1	1542.9	1592.0	1681.5	1744.7	1776.4	1933.5	2057.9	2133.2
17.5°	1463.2	1476.3	1477.4	1524.3	1576.7	1652.0	1707.6	1750.2	1904.1	2073.2	2134.3
20°	1485.1	1477.4	1484.0	1513.4	1564.7	1636.7	1717.5	1731.7	1894.2	2080.8	2146.3
22.5°	1547.2	1545.1	1528.7	1552.7	1588.7	1664.0	1740.4	1762.2	1922.6	2120.1	2156.1
25°	1616.0	1628.0	1612.7	1609.4	1634.5	1708.7	1810.2	1838.6	2017.5	2191.0	2186.7
27.5°	1744.7	1732.7	1732.7	1717.5	1710.9	1746.9	1885.5	1932.4	2123.4	2282.7	2221.6
30°	1868.0	1881.1	1871.3	1876.8	1833.1	1829.9	1992.4	2050.3	2311.1	2422.4	2295.8
32.5°	2063.4	2045.9	2062.3	2048.1	1990.3	1931.3	2137.6	2197.6	2538.0	2582.8	2407.1
35°	2225.9	2218.3	2288.1	2286.0	2192.1	2134.3	2291.4	2380.9	2696.2	2774.8	2538.0
37.5°	2457.3	2443.1	2522.7	2560.9	2476.9	2390.7	2511.8	2615.5	2843.5	2928.6	2672.2
40°	2695.1	2731.1	2838.1	2901.4	2811.9	2697.3	2781.3	2813.0	2941.7	3029.0	2763.9
42.5°	2996.3	3048.7	3157.8	3212.3	3204.7	3080.3	3055.2	3054.1	3012.7	3000.7	2831.5
45°	3285.5	3265.8	3433.8	3552.8	3648.8	3612.8	3319.3	3286.5	3125.1	3043.2	2849.0
47.5°	3412.0	3405.5	3520.0	3731.7	4059.1	4103.8	3703.4	3576.8	3314.9	3222.2	2943.9
50°	3248.4	3282.2	3395.7	3630.3	4132.2	4473.7	4174.7	4004.5	3536.4	3440.4	3168.7
52.5°	2713.7	2736.6	2844.6	3142.5	3883.4	4691.9	4626.5	4528.3	3943.4	3784.1	3560.4
54°	2231.4	2292.5	2351.4	2650.4	3440.4	4570.8	4874.2	4798.9	4208.6	4070.0	3807.0
55°	1943.3	1979.3	2021.9	2319.8	3133.8	4365.7	4845.8	4852.3	4386.4	4159.5	3972.9
57.5°	1419.6	1444.7	1401.0	1533.1	2151.7	3545.1	4432.2	4609.0	4626.5	4293.7	4074.4
60°	1084.6	1095.5	1046.4	1067.1	1337.7	2433.3	3428.4	3641.2	4173.6	3752.5	3451.3
62.5°	841.3	843.5	842.4	878.4	922.0	1431.6	2144.1	2332.9	2877.4	2664.6	2343.8
65°	619.8	610.0	627.4	736.5	786.7	900.2	1129.3	1266.8	1563.6	1320.3	943.8
67.5°	401.5	404.8	422.3	547.8	674.3	690.7	695.1	684.2	685.2	377.5	236.8
70°	241.1	246.6	241.1	309.9	482.3	495.4	452.8	441.9	344.8	89.5	88.4
72.5°	142.9	135.3	121.1	133.1	200.8	240.1	216.0	215.0	135.3	52.4	52.4
75°	60.0	54.6	44.7	40.4	53.5	51.3	51.3	45.8	36.0	34.9	32.7
77.5°	12.0	12.0	8.7	9.8	13.1	15.3	18.5	18.5	21.8	21.8	20.7
80°	0.0	1.1	3.3	6.5	9.8	14.2	16.4	16.4	18.5	18.5	15.3
82.5°	0.0	1.1	3.3	6.5	8.7	13.1	16.4	16.4	18.5	19.6	16.4
85°	0.0	1.1	3.3	5.5	8.7	10.9	10.9	9.8	7.6	6.5	4.4
87.5°	0.0	0.0	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2
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: P527893

CATALOG NUMBER: GALN-SA3A-722-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7	2103.7
2.5°	2113.6	2112.5	2086.3	2043.7	2033.9	1997.9	1993.5	1971.7	1983.7	1943.3	1939.0
5°	2096.1	2083.0	2051.4	2024.1	1944.4	1887.7	1843.0	1788.4	1756.8	1762.2	1741.5
7.5°	2121.2	2087.4	2031.7	1936.8	1839.7	1740.4	1686.9	1575.6	1535.2	1475.2	1466.5
10°	2095.0	2069.9	1983.7	1826.6	1692.4	1549.4	1423.9	1300.6	1206.8	1166.4	1157.7
12.5°	2092.8	2049.2	1905.1	1730.6	1536.3	1331.2	1149.0	995.1	902.4	850.0	838.0
15°	2059.0	2006.6	1816.8	1582.2	1313.7	1058.4	859.8	711.4	640.5	610.0	618.7
17.5°	2062.3	1983.7	1728.4	1425.0	1094.4	776.9	587.0	510.7	492.1	499.7	499.7
20°	2059.0	1932.4	1621.4	1243.9	838.0	539.0	431.0	403.7	415.7	439.7	434.3
22.5°	2041.5	1908.4	1523.2	1053.0	616.5	399.4	345.9	347.0	365.5	395.0	401.5
25°	2054.6	1855.0	1398.9	859.8	449.6	318.6	300.1	307.7	327.3	349.2	353.5
27.5°	2044.8	1816.8	1269.0	667.8	328.4	273.9	272.8	281.5	290.2	306.6	306.6
30°	2055.7	1781.8	1141.3	496.5	270.6	251.0	246.6	253.1	261.9	265.1	264.1
32.5°	2096.1	1755.7	994.0	371.0	239.0	229.1	229.1	229.1	228.1	232.4	233.5
35°	2184.5	1760.0	864.2	287.0	218.2	210.6	207.3	203.0	200.8	203.0	204.0
37.5°	2280.5	1757.8	730.0	244.4	203.0	196.4	188.8	182.2	181.1	183.3	180.0
40°	2323.1	1778.6	605.6	219.3	188.8	181.1	169.1	163.7	164.8	166.9	164.8
42.5°	2380.9	1785.1	524.8	199.7	175.7	163.7	156.0	149.5	148.4	151.7	150.6
45°	2379.8	1748.0	439.7	188.8	163.7	150.6	140.8	135.3	135.3	137.5	138.6
47.5°	2449.6	1742.6	377.5	178.9	154.9	141.8	129.8	125.5	124.4	124.4	122.2
50°	2612.2	1818.9	329.5	168.0	144.0	132.0	122.2	116.8	112.4	110.2	109.1
52.5°	2929.7	2056.8	292.4	154.9	132.0	122.2	113.5	109.1	103.7	98.2	97.1
54°	3237.4	2302.3	290.2	144.0	122.2	115.7	108.0	105.8	99.3	91.7	89.5
55°	3376.0	2445.3	297.9	135.3	115.7	111.3	104.8	102.6	96.0	87.3	86.2
57.5°	3490.6	2500.9	293.5	112.4	104.8	103.7	98.2	94.9	87.3	75.3	73.1
60°	2809.7	1891.0	210.6	99.3	96.0	93.8	89.5	87.3	77.5	64.4	63.3
62.5°	1775.3	1087.9	134.2	87.3	84.0	80.7	75.3	73.1	64.4	51.3	48.0
65°	756.2	450.6	90.6	77.5	72.0	66.6	62.2	58.9	51.3	38.2	37.1
67.5°	196.4	160.4	75.3	67.7	60.0	52.4	49.1	43.6	34.9	26.2	25.1
70°	88.4	80.7	63.3	56.7	48.0	40.4	36.0	30.6	22.9	17.5	16.4
72.5°	52.4	51.3	48.0	42.6	36.0	30.6	26.2	20.7	15.3	9.8	9.8
75°	32.7	31.6	32.7	29.5	25.1	22.9	19.6	14.2	8.7	4.4	4.4
77.5°	19.6	19.6	19.6	18.5	17.5	17.5	14.2	8.7	4.4	1.1	1.1
80°	15.3	15.3	16.4	15.3	15.3	15.3	12.0	6.5	2.2	0.0	0.0
82.5°	15.3	16.4	18.5	17.5	15.3	13.1	10.9	6.5	2.2	0.0	0.0
85°	4.4	3.3	5.5	7.6	10.9	9.8	7.6	5.5	2.2	0.0	0.0
87.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	0.0	0.0
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)