

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: P527161

Luminaire Tested: **GALN-SA2A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5451 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

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



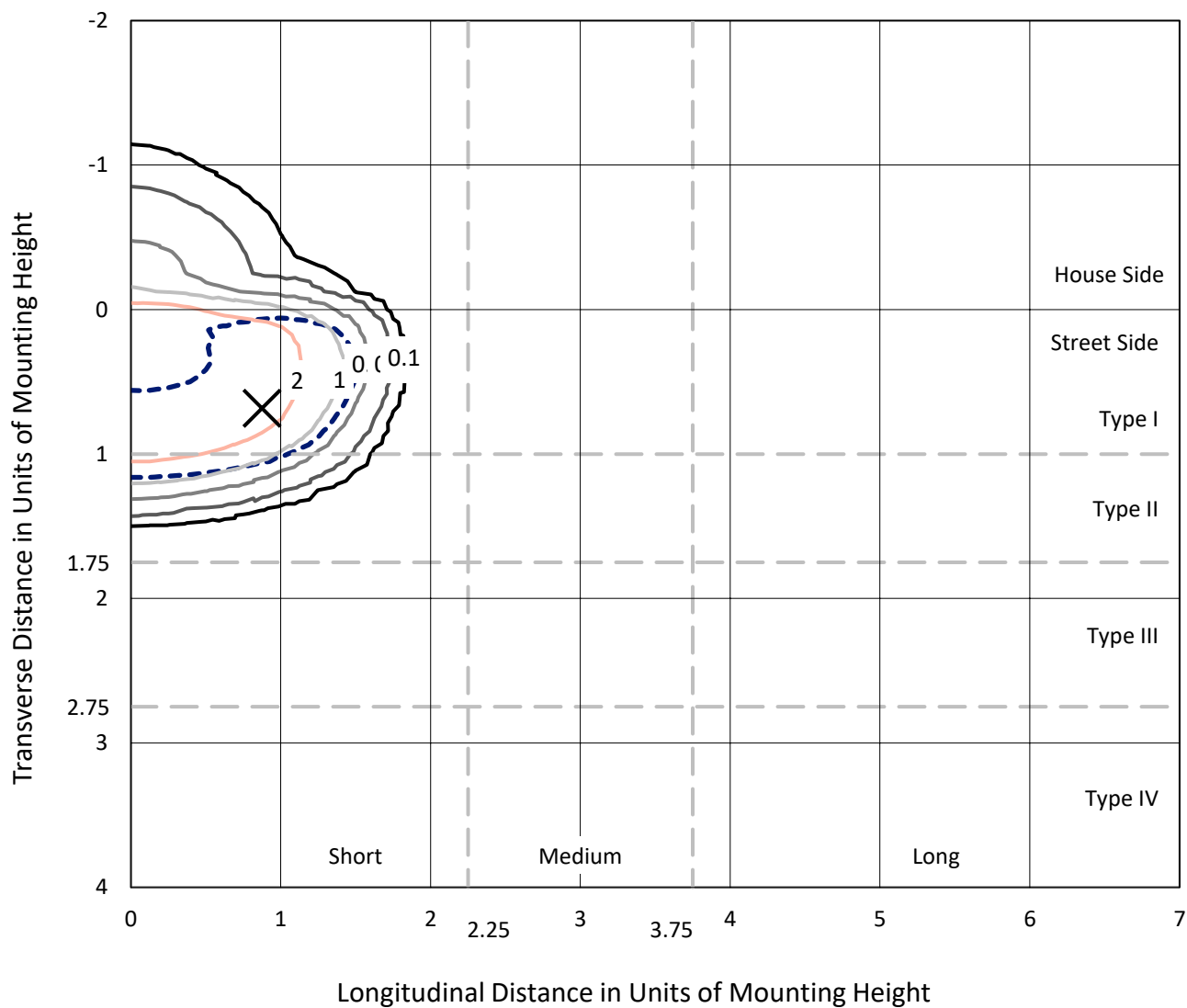
REPORT NUMBER: P527161

CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

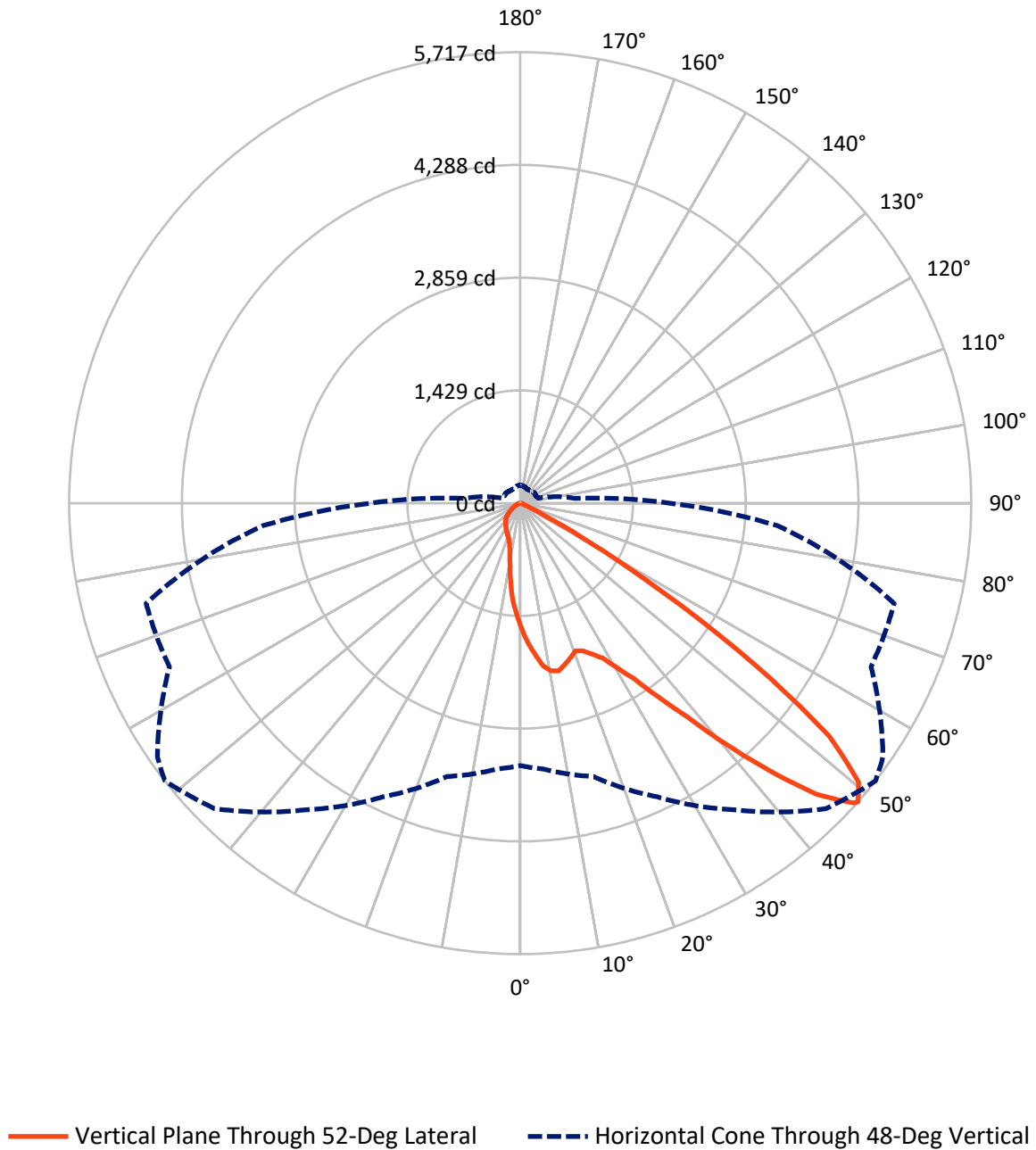


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P527161

CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P527161

CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

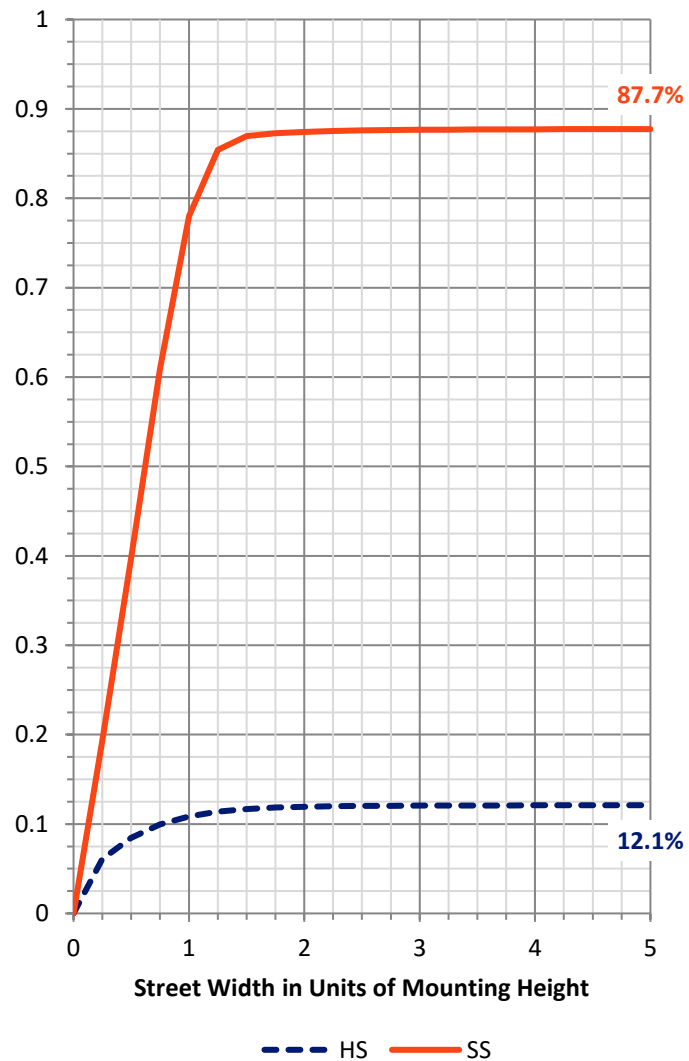
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	663.7	0.0	663.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4787.3	0.0	4787.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	5451.0	0.0	5451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.6
10°-20°	376.5	6.9
20°-30°	642.9	11.8
30°-40°	1183.9	21.7
40°-50°	1838.6	33.7
50°-60°	1106.5	20.3
60°-70°	128.0	2.3
70°-80°	24.8	0.5
80°-90°	5.7	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°	5451.0	100.0
0°-180°	5451.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527161

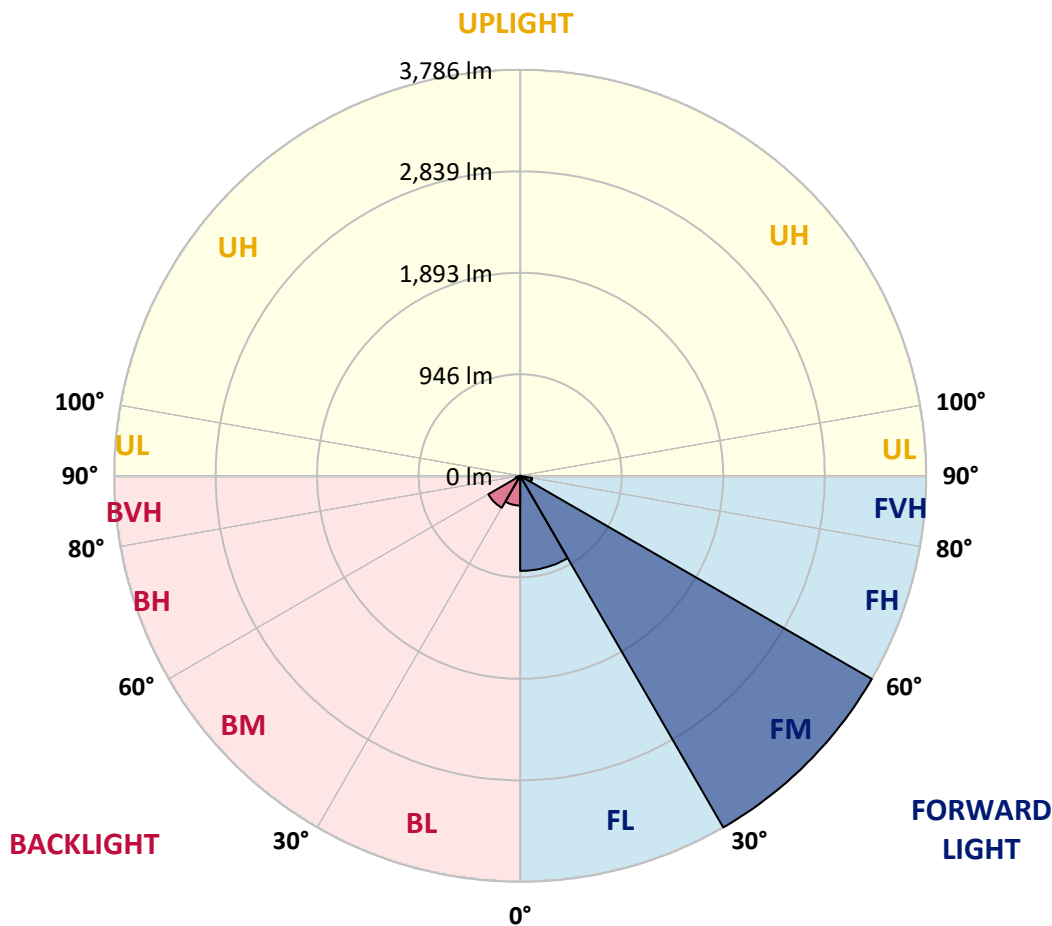
CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	886.3	16.3			
FM	(30°-60°)	3785.6	69.4			
FH	(60°-80°)	112.7	2.1			G0/660
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	277.3	5.1	B1/500		
BM	(30°-60°)	343.4	6.3	B1/1000		
BH	(60°-80°)	40.1	0.7	B0/110		G0/110
BVH	(80°-90°)	3.0	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: P527161

CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2
2.5°	1907.9	1864.2	1868.2	1839.6	1822.9	1795.9	1759.3	1752.2	1712.4	1658.4	1603.6
5°	2079.5	2069.2	2082.7	2041.4	2043.0	1998.5	1912.7	1914.3	1822.9	1734.7	1649.6
7.5°	2090.7	2066.8	2080.3	2116.9	2138.3	2130.4	2081.9	2039.8	1953.2	1823.7	1699.7
10°	1872.1	1917.4	1931.7	1992.1	2078.0	2168.5	2163.0	2165.4	2093.1	1923.8	1742.6
12.5°	1741.0	1710.8	1759.3	1795.9	1925.4	2101.0	2181.3	2198.7	2204.3	2020.7	1785.5
15°	1681.4	1681.4	1689.4	1699.7	1793.5	1955.6	2119.3	2170.1	2290.1	2147.9	1853.1
17.5°	1718.8	1717.2	1728.3	1706.9	1741.8	1866.6	2062.1	2120.1	2386.3	2272.6	1906.3
20°	1832.4	1838.0	1830.8	1768.8	1771.2	1865.0	1998.5	2089.9	2451.4	2380.7	1977.0
22.5°	1990.5	1993.7	1953.2	1885.7	1865.8	1911.9	2035.0	2105.0	2503.9	2510.2	1998.5
25°	2173.3	2160.6	2152.6	2057.3	1996.9	2036.6	2117.7	2158.2	2536.5	2621.5	2059.7
27.5°	2426.8	2401.4	2352.9	2267.9	2223.4	2167.0	2225.0	2291.7	2629.4	2777.2	2126.4
30°	2801.1	2778.8	2684.3	2574.6	2457.8	2402.2	2420.4	2457.0	2797.1	2957.6	2214.6
32.5°	3364.5	3317.6	3180.9	2971.9	2813.0	2659.6	2654.9	2693.8	2947.3	3207.1	2319.5
35°	3985.1	3970.8	3769.7	3554.4	3246.9	3010.1	3014.0	3034.7	3234.9	3534.5	2457.0
37.5°	4397.5	4476.1	4348.2	4117.0	3858.7	3520.2	3434.4	3441.5	3629.9	3922.3	2704.9
40°	4716.1	4649.4	4664.5	4610.4	4434.0	4203.6	4013.7	3976.3	4086.8	4351.4	2951.2
42.5°	4577.1	4580.2	4673.2	4801.1	4844.8	4828.2	4634.3	4563.5	4477.7	4702.6	3185.7
45°	4184.5	4266.4	4387.1	4725.7	5022.8	5301.8	5263.6	5146.0	4747.9	4980.7	3320.8
47.5°	3558.3	3555.2	3753.0	4193.3	4853.6	5506.8	5680.0	5597.4	4939.4	4949.7	3292.9
48°	3327.1	3384.3	3588.5	4106.6	4746.3	5476.6	5717.3	5613.3	4906.8	4908.4	3269.1
50°	2459.4	2449.0	2703.3	3339.0	4239.3	5146.0	5560.0	5641.1	4906.0	4699.4	3102.2
52.5°	1299.2	1343.7	1528.9	2099.4	2997.3	4211.5	4904.4	5030.8	4732.8	4357.7	2862.3
55°	552.3	499.0	641.3	948.0	1686.2	2813.8	3598.1	3879.4	4001.7	3856.3	2503.9
57.5°	197.1	215.3	247.9	356.8	708.8	1540.0	2145.5	2364.0	2772.5	2829.7	1706.1
60°	126.3	128.7	139.1	163.7	266.2	593.6	1017.9	1191.9	1377.1	1421.6	796.2
62.5°	97.7	98.5	103.3	107.3	126.3	230.4	382.2	452.9	470.4	404.5	209.0
65°	81.8	82.6	84.2	84.2	89.8	108.1	133.5	147.0	143.0	141.4	118.4
67.5°	62.8	64.4	67.5	67.5	70.7	66.0	73.9	78.7	89.0	108.1	100.9
70°	49.3	50.1	52.4	54.0	54.0	47.7	53.2	58.0	65.2	80.3	79.5
72.5°	38.1	39.7	41.3	41.3	38.9	32.6	38.1	42.1	46.9	55.6	54.0
75°	29.4	29.4	30.2	24.6	19.1	16.7	23.0	27.8	35.0	36.6	30.2
77.5°	7.9	8.7	7.9	7.2	7.9	11.9	15.1	17.5	22.2	22.2	19.9
80°	0.0	0.8	2.4	4.8	7.9	11.1	13.5	15.1	17.5	19.1	18.3
82.5°	0.0	0.8	2.4	4.8	7.2	8.7	11.9	12.7	14.3	16.7	16.7
85°	0.0	0.8	1.6	3.2	4.8	5.6	5.6	4.8	4.8	4.0	3.2
87.5°	0.0	0.0	0.8	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4
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: P527161

CATALOG NUMBER: GALN-SA2A-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2	1574.2
2.5°	1582.1	1557.5	1520.1	1461.3	1404.9	1368.3	1333.4	1294.4	1273.0	1271.4	1259.5
5°	1601.2	1545.6	1456.6	1355.6	1247.6	1154.6	1060.8	999.6	944.8	914.6	909.1
7.5°	1611.5	1539.2	1395.4	1226.1	1041.8	890.0	785.1	708.0	677.8	655.6	654.8
10°	1633.0	1528.1	1304.0	1054.5	826.4	673.0	600.7	565.8	549.1	542.7	533.2
12.5°	1648.9	1507.4	1210.2	878.1	653.2	557.8	526.0	518.1	518.9	522.1	518.1
15°	1671.1	1489.1	1083.9	720.7	548.3	502.2	502.2	503.8	514.9	516.5	515.7
17.5°	1669.5	1453.4	953.6	593.6	484.7	478.4	480.7	495.8	503.0	505.4	499.8
20°	1688.6	1420.0	819.3	507.0	449.0	458.5	474.4	478.4	487.1	488.7	482.3
22.5°	1683.0	1336.6	694.5	438.6	421.9	440.2	456.1	460.9	458.5	453.7	452.9
25°	1672.7	1265.0	580.1	393.3	402.1	421.9	437.0	428.3	423.5	424.3	425.1
27.5°	1654.4	1174.5	485.5	361.6	375.1	404.5	403.7	400.5	405.3	401.3	405.3
30°	1651.2	1083.9	407.6	332.9	355.2	376.7	378.2	383.8	389.4	382.2	389.4
32.5°	1656.0	984.5	352.0	315.5	343.3	344.1	361.6	367.1	363.1	347.3	348.8
35°	1692.6	908.3	311.5	305.9	324.2	325.0	341.7	334.5	317.1	307.5	313.1
37.5°	1769.6	844.7	292.4	297.2	298.8	309.1	309.9	295.6	297.2	296.4	299.6
40°	1868.2	796.2	278.9	289.2	287.7	294.8	266.2	274.1	281.3	283.7	285.3
42.5°	1935.7	761.3	270.2	276.5	273.4	260.6	244.7	252.7	258.3	267.0	268.6
45°	1965.9	733.4	259.8	254.3	254.3	231.2	224.9	226.5	239.2	248.7	247.1
47.5°	1916.6	706.4	241.6	224.9	230.4	211.4	204.2	204.2	217.7	229.6	227.3
48°	1897.6	695.3	242.4	218.5	222.5	208.2	201.0	199.5	214.5	225.7	225.7
50°	1803.0	654.0	221.7	201.0	193.1	191.5	186.7	188.3	197.9	208.2	208.2
52.5°	1618.7	565.0	187.5	172.4	158.1	167.7	170.1	166.9	171.6	181.2	180.4
55°	1350.9	433.9	150.2	143.0	131.9	142.2	147.0	143.0	138.3	145.4	145.4
57.5°	865.3	233.6	120.0	121.6	110.5	120.8	124.8	115.2	106.5	112.0	111.2
60°	390.2	139.9	98.5	96.1	89.0	100.9	107.3	96.1	84.2	88.2	92.2
62.5°	146.2	99.3	74.7	73.1	71.5	82.6	85.8	77.1	65.2	67.5	68.3
65°	107.3	87.4	59.6	54.0	57.2	65.2	63.6	54.8	46.9	46.9	48.5
67.5°	91.4	76.3	48.5	42.1	42.1	42.9	39.7	35.0	32.6	34.2	35.8
70°	71.5	60.4	38.1	32.6	29.4	26.2	23.0	22.2	19.9	22.2	21.5
72.5°	46.1	40.5	29.4	24.6	22.2	18.3	15.1	14.3	11.9	11.1	11.1
75°	24.6	24.6	23.0	19.9	17.5	14.3	11.9	9.5	6.4	4.8	4.8
77.5°	17.5	19.1	20.7	19.1	15.9	11.9	9.5	6.4	3.2	1.6	1.6
80°	16.7	19.1	20.7	18.3	15.9	11.9	8.7	4.8	2.4	0.8	0.8
82.5°	15.1	17.5	19.1	16.7	14.3	10.3	7.9	4.8	2.4	0.8	0.8
85°	3.2	4.0	4.8	4.8	5.6	7.2	5.6	4.0	1.6	0.8	0.8
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.8
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)