

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: P458755

Luminaire Tested: **GALN-SA3A-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10461 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

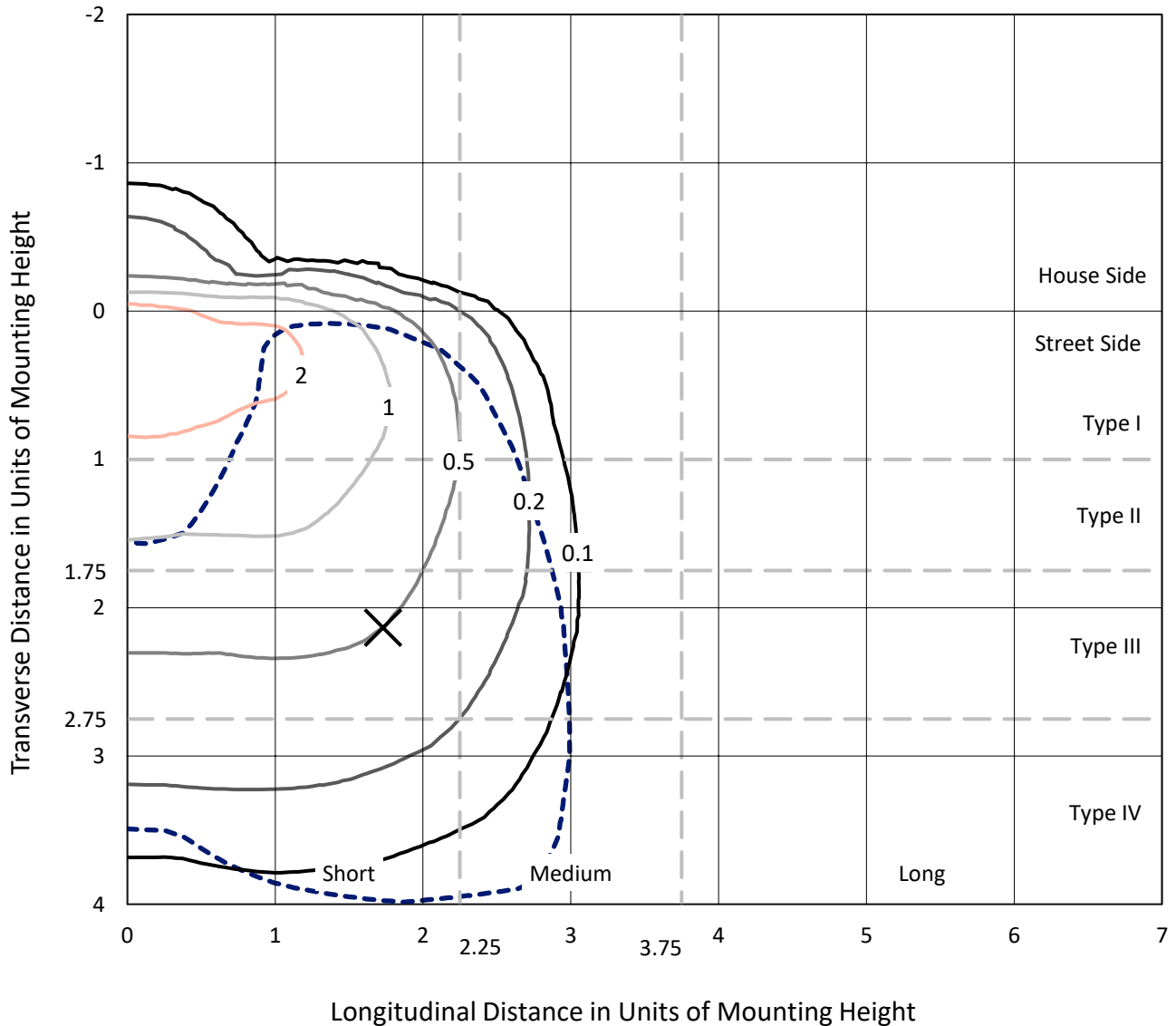
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458755
 CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

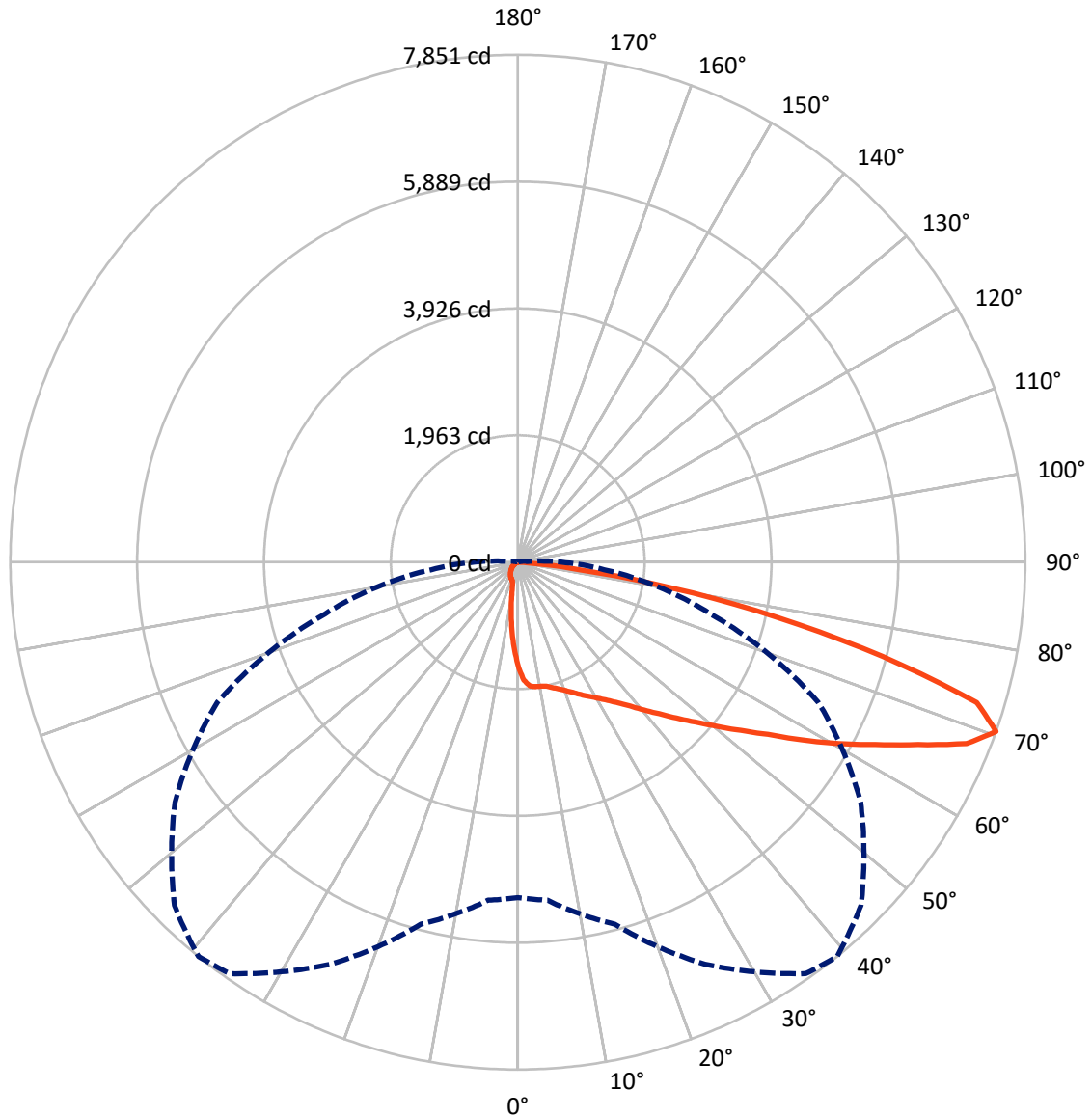
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P458755
CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P458755
 CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

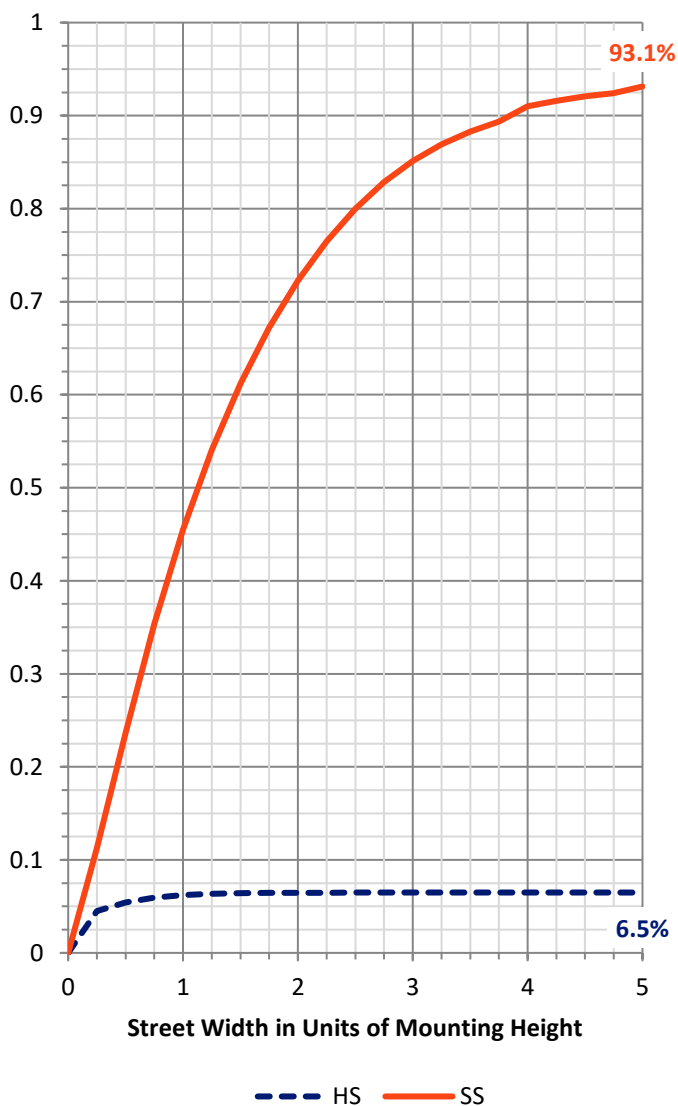
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	682.1	0.0	682.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	9778.9	0.0	9778.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	10461.0	0.0	10461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.3
10°-20°	361.8	3.5
20°-30°	606.1	5.8
30°-40°	940.0	9.0
40°-50°	1489.6	14.2
50°-60°	2183.6	20.9
60°-70°	2798.8	26.8
70°-80°	1758.7	16.8
80°-90°	183.2	1.8
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°	10461.0	100.0
0°-180°	10461.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458755

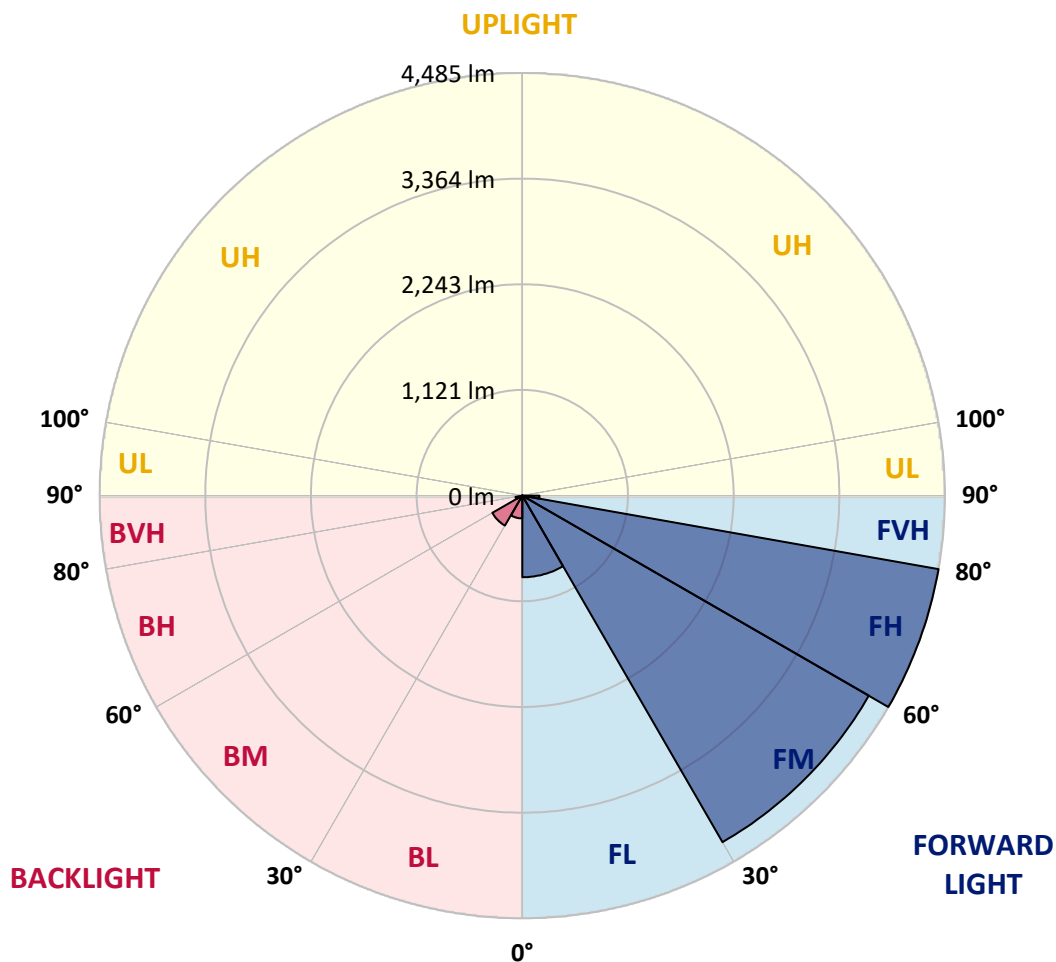
CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	865.6	8.3			
FM (30°-60°)	4246.1	40.6			
FH (60°-80°)	4485.3	42.9			G2/5000
FVH (80°-90°)	181.9	1.7			G2/225
BL (0°-30°)	241.5	2.3	B1/500		
BM (30°-60°)	367.1	3.5	B1/1000		
BH (60°-80°)	72.1	0.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P458755

CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1886.0	1879.7	1871.3	1861.4	1833.3	1828.4	1811.5	1775.7	1732.8	1697.7	1649.1
5°	1975.3	1978.8	1972.5	1954.9	1934.5	1922.6	1901.5	1846.0	1790.4	1719.4	1640.0
7.5°	1995.7	2002.7	1995.0	1978.1	1958.4	1945.8	1928.9	1881.1	1816.5	1735.6	1626.7
10°	1993.6	2002.0	1997.1	1981.6	1965.5	1953.5	1935.3	1897.3	1845.3	1760.2	1630.9
12.5°	1990.1	2001.3	2000.6	1992.9	1979.5	1970.4	1959.2	1925.4	1876.9	1796.1	1654.1
15°	1980.2	1994.3	2007.0	2013.3	2014.0	2014.0	1999.9	1964.1	1917.7	1843.2	1684.3
17.5°	1984.5	2000.6	2032.3	2050.5	2063.2	2061.8	2047.0	2008.4	1957.0	1891.7	1715.9
20°	2010.5	2032.3	2076.5	2113.1	2125.8	2121.5	2101.9	2056.9	1998.5	1933.1	1746.9
22.5°	2074.4	2094.1	2149.7	2192.5	2201.7	2190.4	2162.3	2101.1	2048.4	1978.1	1784.1
25°	2170.0	2193.2	2244.6	2276.9	2276.9	2270.6	2231.2	2159.5	2104.7	2040.7	1832.6
27.5°	2286.0	2305.7	2356.3	2385.1	2368.3	2350.0	2310.6	2224.2	2171.4	2119.4	1891.0
30°	2403.4	2416.1	2469.5	2482.2	2464.6	2441.4	2399.2	2312.7	2266.3	2226.3	1975.3
32.5°	2514.5	2541.9	2586.2	2583.4	2559.5	2548.2	2509.6	2417.5	2391.5	2387.3	2093.4
35°	2625.6	2646.6	2686.0	2695.9	2674.8	2672.7	2644.5	2576.4	2577.1	2604.5	2277.6
37.5°	2721.2	2740.1	2786.5	2808.3	2812.5	2823.1	2811.8	2766.9	2830.8	2906.0	2521.5
40°	2801.3	2828.0	2887.1	2925.0	2968.6	3007.3	3009.4	3019.2	3147.9	3277.2	2840.0
42.5°	2863.9	2901.1	2986.9	3057.2	3157.0	3206.2	3245.6	3299.7	3516.2	3709.5	3215.3
45°	2945.4	2988.3	3095.1	3205.5	3361.6	3442.4	3497.2	3642.0	3949.2	4212.8	3600.6
47.5°	3080.4	3102.9	3211.8	3372.8	3578.1	3693.4	3800.2	4019.5	4413.9	4650.1	3921.1
50°	3254.0	3268.8	3351.0	3574.6	3840.3	3992.1	4186.8	4444.8	4896.1	5012.8	4102.5
52.5°	3445.9	3450.8	3512.7	3796.7	4134.1	4325.3	4543.2	4861.7	5289.1	5271.5	4222.7
55°	3668.8	3661.7	3714.4	4037.8	4482.1	4700.7	4954.5	5288.4	5630.0	5455.0	4291.6
57.5°	3923.9	3904.9	3956.3	4357.7	4927.8	5189.3	5447.2	5656.7	5894.3	5608.9	4324.6
60°	4191.1	4153.1	4214.2	4716.9	5452.9	5701.0	5915.4	5971.7	6172.7	5731.2	4267.7
62.5°	4404.0	4404.8	4518.6	5099.3	5992.7	6210.0	6323.8	6374.4	6412.4	5704.5	3968.2
65°	4736.5	4747.8	4929.9	5630.0	6617.7	6806.1	6884.1	6719.6	6423.0	5372.7	3518.3
67.5°	5079.6	5115.4	5448.6	6361.1	7339.6	7491.5	7390.9	6786.4	6136.1	4615.6	2667.7
70°	5191.4	5250.4	5799.4	6864.4	7772.6	7851.4	7511.1	6475.0	5129.5	3086.0	1342.7
72.5°	4756.9	4852.5	5597.7	6680.9	7496.4	7428.2	6720.3	5430.4	3261.0	1171.8	409.8
75°	3354.5	3396.7	4652.2	5542.1	6029.3	5836.0	5111.9	3500.7	1341.2	329.0	140.6
77.5°	1732.1	1711.7	2766.9	3677.2	4300.0	4099.7	3347.5	1812.2	508.2	137.1	87.2
80°	895.6	910.3	1197.1	1926.8	2624.9	2415.4	1784.8	840.0	270.6	75.9	66.8
82.5°	501.9	471.0	688.2	841.4	1227.4	962.4	684.7	594.7	118.1	45.7	63.3
85°	91.4	95.6	377.5	454.8	426.0	270.6	220.7	397.2	34.4	25.3	44.3
87.5°	1.4	1.4	73.1	130.8	82.9	38.0	69.6	56.9	7.0	9.8	7.7
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: P458755
 CATALOG NUMBER: GALN-SA3A-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3	1632.3
2.5°	1624.5	1597.8	1547.9	1498.7	1436.1	1384.8	1350.4	1314.5	1278.0	1280.8	1289.2
5°	1596.4	1550.0	1451.6	1347.6	1247.8	1157.8	1069.2	989.8	957.4	927.9	929.3
7.5°	1568.3	1502.9	1358.8	1195.7	1044.6	891.4	780.3	688.9	640.4	603.8	593.3
10°	1555.7	1469.2	1273.8	1049.5	835.1	667.8	525.1	450.6	393.0	374.7	379.6
12.5°	1561.3	1452.3	1197.1	917.4	662.2	465.4	365.5	327.6	314.9	312.8	311.4
15°	1571.8	1440.4	1121.9	771.1	486.4	345.9	307.2	300.2	298.8	297.4	298.1
17.5°	1585.9	1429.8	1041.8	634.1	373.3	302.3	291.0	287.5	286.8	286.8	286.8
20°	1599.9	1417.9	952.5	511.8	311.4	285.4	278.4	276.3	275.6	275.6	274.9
22.5°	1616.1	1407.3	861.8	402.1	286.8	273.5	267.1	265.7	265.0	264.3	264.3
25°	1639.3	1394.0	765.5	329.0	271.3	262.2	255.9	254.5	253.8	251.0	251.7
27.5°	1670.2	1384.1	666.4	284.0	257.3	248.1	243.9	241.8	240.4	238.3	239.0
30°	1712.4	1375.7	561.0	259.4	241.1	233.4	229.2	227.8	226.4	224.2	224.2
32.5°	1785.5	1379.2	449.9	239.7	226.4	217.2	213.0	211.6	210.2	208.1	208.1
35°	1895.2	1399.6	359.9	222.8	208.8	199.6	195.4	195.4	193.3	190.5	189.8
37.5°	2074.4	1451.6	288.9	206.7	191.9	183.5	178.6	177.1	175.0	170.8	170.1
40°	2286.0	1532.5	243.2	190.5	176.4	168.0	163.8	159.6	153.9	149.7	149.0
42.5°	2551.7	1615.4	210.9	174.3	161.7	153.9	149.0	142.0	133.6	127.9	127.2
45°	2828.7	1691.3	189.1	159.6	147.6	141.3	135.7	124.4	113.9	106.9	106.1
47.5°	3035.4	1705.4	171.5	145.5	135.7	129.3	121.6	107.6	93.5	87.2	85.1
50°	3133.1	1637.2	153.2	131.5	123.7	116.7	106.9	90.7	75.2	67.5	66.1
52.5°	3167.5	1519.1	138.5	118.8	111.8	103.3	91.4	73.1	59.0	51.3	50.6
55°	3153.5	1370.1	125.1	106.9	97.7	87.9	75.9	58.3	43.6	37.3	35.9
57.5°	3079.7	1180.3	111.8	94.9	83.7	73.8	60.5	43.6	29.5	23.9	23.2
60°	2880.7	921.6	98.4	81.5	71.0	60.5	47.8	30.9	18.3	13.4	13.4
62.5°	2544.7	684.0	85.8	68.2	59.8	48.5	33.7	19.7	9.8	7.0	6.3
65°	2126.5	504.7	71.7	57.6	49.9	38.0	23.9	12.0	4.9	2.1	1.4
67.5°	1484.0	311.4	59.8	47.1	40.8	27.4	14.8	4.9	2.1	0.0	0.0
70°	674.1	148.3	45.7	35.9	30.9	19.7	7.7	2.8	1.4	0.0	0.0
72.5°	209.5	78.0	32.3	26.0	21.1	12.7	4.2	2.1	1.4	0.0	0.0
75°	97.0	49.9	20.4	14.1	12.0	6.3	2.8	1.4	0.7	0.0	0.0
77.5°	72.4	38.7	12.0	7.7	6.3	4.2	2.1	1.4	0.7	0.0	0.0
80°	63.3	19.7	7.0	4.9	3.5	2.8	1.4	0.7	0.0	0.0	0.0
82.5°	56.9	9.8	4.2	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
85°	30.9	5.6	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.1	1.4	1.4	0.7	0.7	0.7	0.0	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)