

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: P533557

Luminaire Tested: **GALN-SA9A-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533557
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-SA9A-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 28165 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

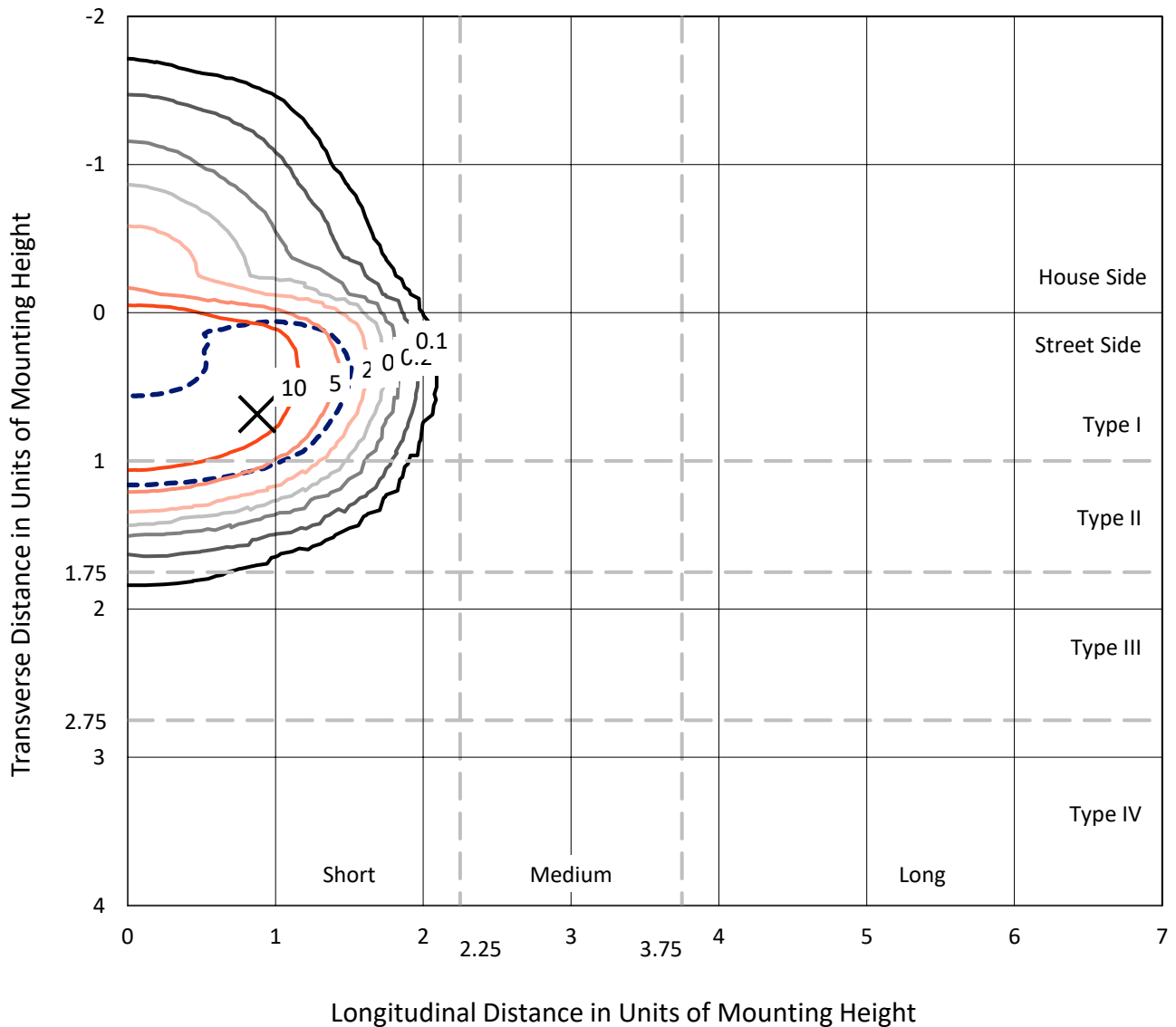
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533557
 CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

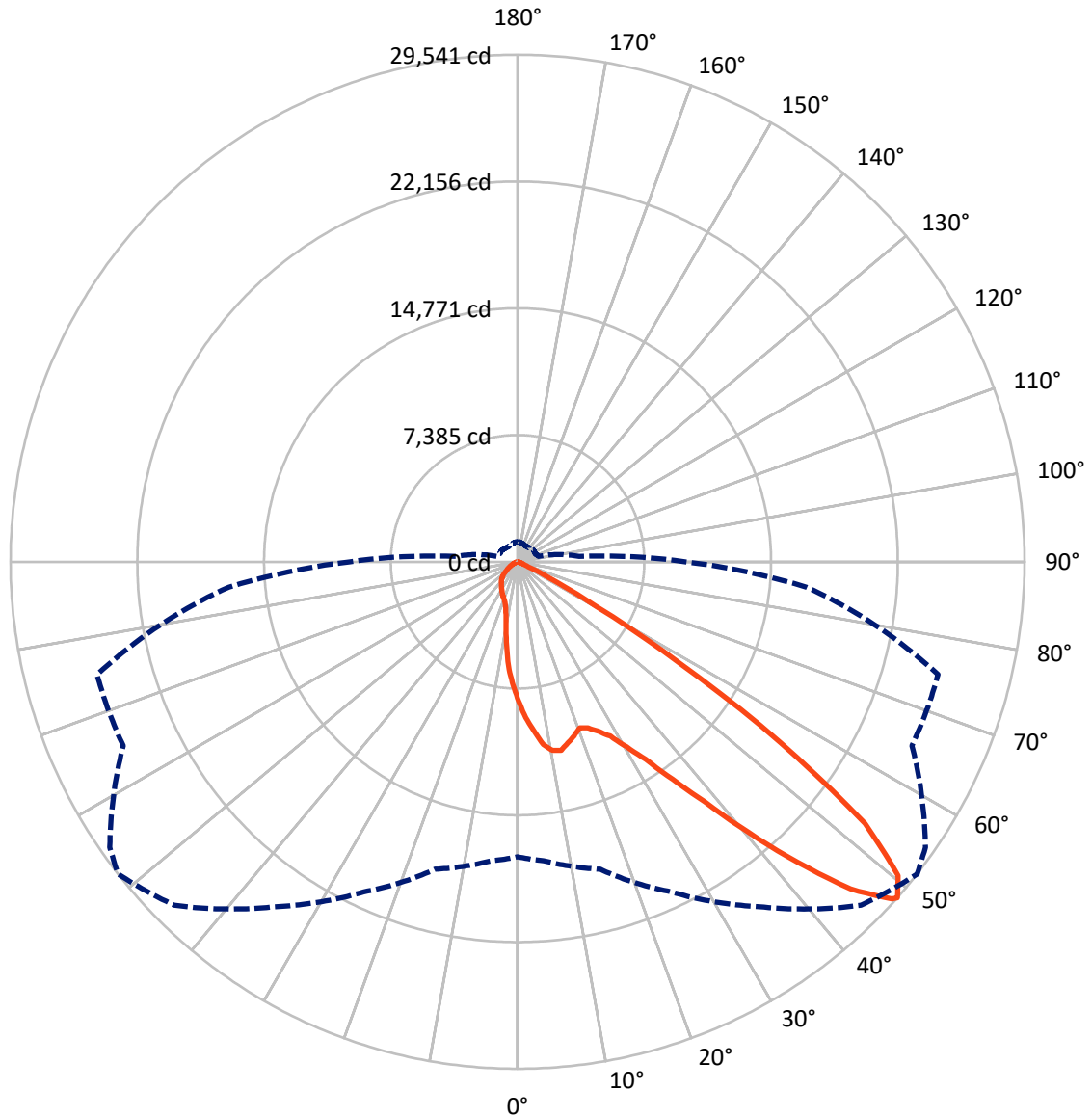
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

REPORT NUMBER: P533557
CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P533557
 CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

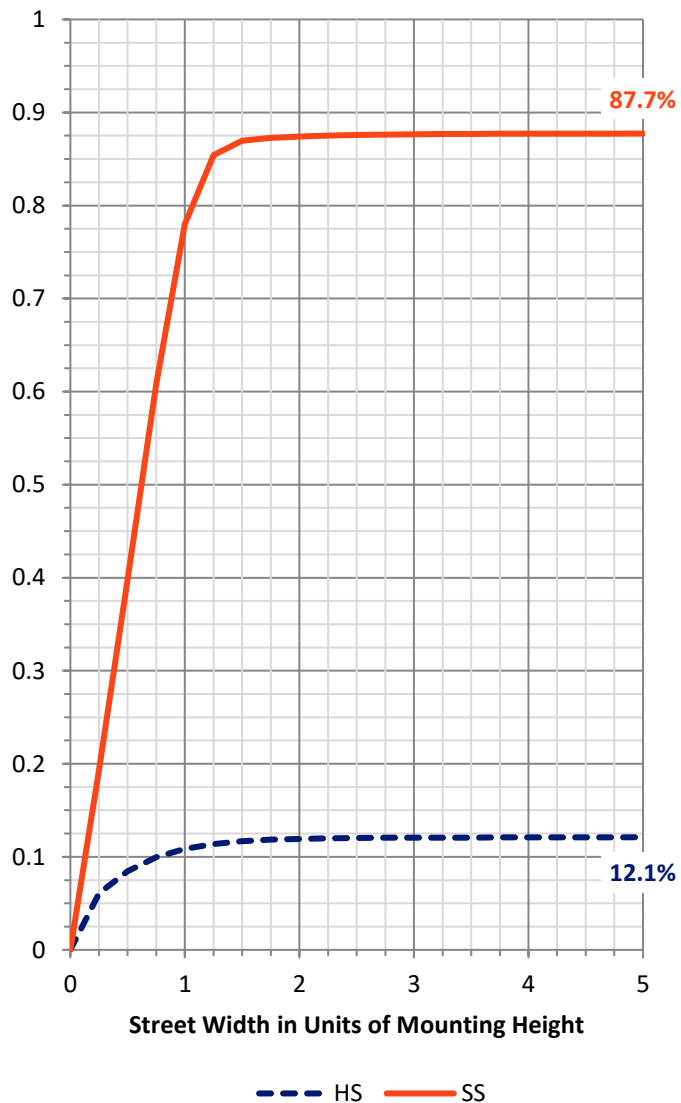
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.3	0.0	3429.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	24735.7	0.0	24735.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	28165.0	0.0	28165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.5	2.6
10°-20°	1945.5	6.9
20°-30°	3321.8	11.8
30°-40°	6117.1	21.7
40°-50°	9499.9	33.7
50°-60°	5717.3	20.3
60°-70°	661.3	2.3
70°-80°	128.0	0.5
80°-90°	29.6	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°	28165.0	100.0
0°-180°	28165.0	100.0

Coefficient of Utilization

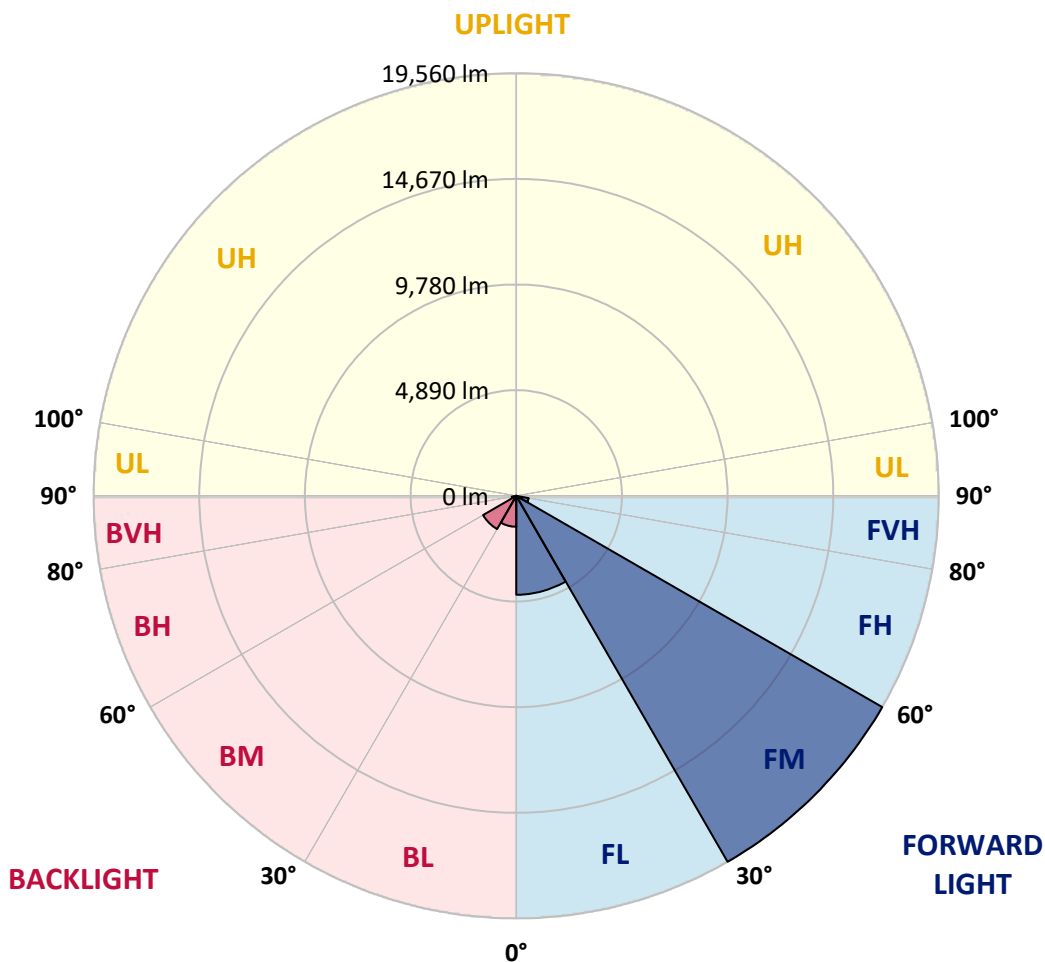


REPORT NUMBER: P533557
 CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4579.3	16.3			
FM (30°-60°)	19560.0	69.4			
FH (60°-80°)	582.3	2.1			G0/660
FVH (80°-90°)	14.1	0.0			G1/100
BL (0°-30°)	1432.5	5.1	B3/2500		
BM (30°-60°)	1774.3	6.3	B2/2500		
BH (60°-80°)	207.0	0.7	B1/500		G1/500
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P533557

CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6
2.5°	9858.0	9632.2	9652.7	9504.9	9418.7	9279.1	9090.2	9053.3	8848.0	8568.8	8285.5
5°	10744.9	10691.5	10761.3	10547.8	10556.0	10326.1	9882.7	9890.9	9418.7	8963.0	8523.6
7.5°	10802.4	10679.2	10749.0	10937.8	11048.7	11007.6	10757.2	10539.6	10092.0	9422.8	8782.3
10°	9673.3	9907.3	9981.2	10293.2	10736.7	11204.7	11176.0	11188.3	10814.7	9940.1	9004.0
12.5°	8995.8	8839.8	9090.2	9279.1	9948.3	10855.7	11270.4	11360.7	11389.5	10441.0	9225.7
15°	8687.9	8687.9	8728.9	8782.3	9266.8	10104.4	10950.2	11212.9	11832.9	11098.0	9574.7
17.5°	8880.8	8872.6	8930.1	8819.3	8999.9	9644.5	10654.5	10954.3	12329.7	11742.6	9849.8
20°	9468.0	9496.7	9459.8	9139.5	9151.8	9636.3	10326.1	10798.2	12666.4	12301.0	10215.2
22.5°	10285.0	10301.4	10092.0	9743.1	9640.4	9878.5	10514.9	10876.3	12937.4	12970.2	10326.1
25°	11229.4	11163.7	11122.6	10629.9	10317.9	10523.2	10941.9	11151.3	13105.7	13545.0	10642.2
27.5°	12539.1	12407.7	12157.3	11717.9	11488.0	11196.5	11496.2	11841.1	13586.1	14349.8	10987.1
30°	14472.9	14358.0	13869.4	13302.8	12699.2	12411.8	12506.3	12695.1	14452.4	15281.8	11442.9
32.5°	17383.9	17141.7	16435.5	15355.7	14534.5	13742.1	13717.5	13918.7	15228.4	16571.0	11984.8
35°	20590.6	20516.7	19477.9	18365.2	16776.3	15552.8	15573.3	15680.0	16714.7	18262.6	12695.1
37.5°	22721.5	23128.0	22466.9	21272.1	19937.8	18188.7	17745.3	17782.2	18755.3	20266.2	13976.1
40°	24367.9	24023.0	24101.0	23821.8	22910.3	21719.7	20738.4	20545.4	21116.1	22483.3	15248.9
42.5°	23649.4	23665.8	24146.2	24807.2	25033.0	24946.8	23945.0	23579.6	23136.2	24298.1	16460.1
45°	21621.1	22044.0	22668.1	24417.2	25952.7	27393.9	27196.8	26589.1	24532.1	25735.1	17158.1
47.5°	18385.8	18369.3	19391.7	21666.3	25078.2	28453.2	29348.2	28921.2	25521.6	25575.0	17014.4
48°	17191.0	17486.6	18541.8	21218.8	24523.9	28297.2	29541.2	29003.4	25353.3	25361.5	16891.2
50°	12707.4	12654.1	13967.9	17252.6	21904.4	26589.1	28728.3	29147.1	25349.2	24281.7	16029.0
52.5°	6713.0	6942.9	7899.6	10847.5	15487.1	21760.7	25341.0	25993.8	24454.1	22516.2	14789.1
55°	2853.5	2578.4	3313.4	4898.2	8712.5	14538.6	18591.0	20044.5	20676.8	19925.4	12937.4
57.5°	1018.2	1112.7	1281.0	1843.5	3662.4	7957.0	11085.7	12214.7	14325.1	14620.7	8815.1
60°	652.8	665.1	718.5	845.8	1375.4	3067.0	5259.5	6158.7	7115.3	7345.3	4114.0
62.5°	505.0	509.1	533.8	554.3	652.8	1190.7	1974.9	2340.3	2430.6	2089.9	1079.8
65°	422.9	427.0	435.2	435.2	464.0	558.4	689.8	759.6	739.0	730.8	611.8
67.5°	324.4	332.6	349.0	349.0	365.4	340.8	381.8	406.5	459.8	558.4	521.4
70°	254.6	258.7	271.0	279.2	279.2	246.3	275.1	299.7	336.7	414.7	410.6
72.5°	197.1	205.3	213.5	213.5	201.2	168.3	197.1	217.6	242.2	287.4	279.2
75°	151.9	151.9	156.0	127.3	98.5	86.2	119.1	143.7	180.7	188.9	156.0
77.5°	41.1	45.2	41.1	37.0	41.1	61.6	78.0	90.3	115.0	115.0	102.6
80°	0.0	4.1	12.3	24.6	41.1	57.5	69.8	78.0	90.3	98.5	94.4
82.5°	0.0	4.1	12.3	24.6	37.0	45.2	61.6	65.7	73.9	86.2	86.2
85°	0.0	4.1	8.2	16.4	24.6	28.7	28.7	24.6	24.6	20.5	16.4
87.5°	0.0	0.0	4.1	8.2	8.2	12.3	12.3	12.3	12.3	12.3	12.3
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: P533557

CATALOG NUMBER: GALN-SA9A-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6	8133.6
2.5°	8174.6	8047.4	7854.4	7550.6	7259.0	7070.2	6889.5	6688.3	6577.5	6569.3	6507.7
5°	8273.2	7985.8	7525.9	7004.5	6446.1	5965.7	5481.2	5165.1	4881.8	4725.8	4697.0
7.5°	8326.6	7952.9	7209.8	6335.2	5382.7	4598.5	4056.5	3658.3	3502.2	3387.3	3383.2
10°	8437.4	7895.4	6737.6	5448.4	4270.0	3477.6	3104.0	2923.3	2837.1	2804.3	2755.0
12.5°	8519.5	7788.7	6253.1	4536.9	3375.0	2882.3	2718.0	2677.0	2681.1	2697.5	2677.0
15°	8634.5	7694.3	5600.3	3724.0	2833.0	2594.9	2594.9	2603.1	2660.6	2668.8	2664.7
17.5°	8626.3	7509.5	4927.0	3067.0	2504.5	2471.7	2484.0	2562.0	2599.0	2611.3	2582.5
20°	8724.8	7337.1	4233.1	2619.5	2319.8	2369.0	2451.2	2471.7	2516.9	2525.1	2492.2
22.5°	8696.1	6906.0	3588.5	2266.4	2180.2	2274.6	2356.7	2381.4	2369.0	2344.4	2340.3
25°	8642.7	6536.4	2997.2	2032.4	2077.5	2180.2	2258.2	2213.0	2188.4	2192.5	2196.6
27.5°	8548.3	6068.4	2508.6	1868.1	1937.9	2089.9	2085.7	2069.3	2094.0	2073.4	2094.0
30°	8531.8	5600.3	2106.3	1720.3	1835.3	1946.1	1954.4	1983.1	2011.8	1974.9	2011.8
32.5°	8556.5	5087.1	1818.9	1630.0	1773.7	1777.8	1868.1	1896.9	1876.3	1794.2	1802.4
35°	8745.3	4692.9	1609.5	1580.7	1675.2	1679.3	1765.5	1728.5	1638.2	1588.9	1617.7
37.5°	9143.6	4364.5	1510.9	1535.6	1543.8	1597.2	1601.3	1527.4	1535.6	1531.5	1547.9
40°	9652.7	4114.0	1441.1	1494.5	1486.3	1523.3	1375.4	1416.5	1453.5	1465.8	1474.0
42.5°	10001.7	3933.4	1396.0	1428.8	1412.4	1346.7	1264.6	1305.6	1334.4	1379.5	1387.8
45°	10157.7	3789.7	1342.6	1313.9	1313.9	1194.8	1161.9	1170.2	1235.8	1285.1	1276.9
47.5°	9903.2	3650.1	1248.2	1161.9	1190.7	1092.1	1055.2	1055.2	1125.0	1186.6	1174.3
48°	9804.6	3592.6	1252.3	1129.1	1149.6	1075.7	1038.8	1030.6	1108.6	1166.0	1166.0
50°	9316.1	3379.1	1145.5	1038.8	997.7	989.5	964.9	973.1	1022.3	1075.7	1075.7
52.5°	8363.5	2919.2	969.0	891.0	817.1	866.3	878.6	862.2	886.9	936.1	932.0
55°	6979.9	2241.8	776.0	739.0	681.6	734.9	759.6	739.0	714.4	751.4	751.4
57.5°	4471.2	1207.1	620.0	628.2	570.7	624.1	644.6	595.3	550.2	578.9	574.8
60°	2015.9	722.6	509.1	496.8	459.8	521.4	554.3	496.8	435.2	455.7	476.3
62.5°	755.5	513.2	385.9	377.7	369.5	427.0	443.4	398.3	336.7	349.0	353.1
65°	554.3	451.6	307.9	279.2	295.6	336.7	328.5	283.3	242.2	242.2	250.5
67.5°	472.2	394.2	250.5	217.6	217.6	221.7	205.3	180.7	168.3	176.5	184.8
70°	369.5	312.0	197.1	168.3	151.9	135.5	119.1	115.0	102.6	115.0	110.9
72.5°	238.1	209.4	151.9	127.3	115.0	94.4	78.0	73.9	61.6	57.5	57.5
75°	127.3	127.3	119.1	102.6	90.3	73.9	61.6	49.3	32.8	24.6	24.6
77.5°	90.3	98.5	106.8	98.5	82.1	61.6	49.3	32.8	16.4	8.2	8.2
80°	86.2	98.5	106.8	94.4	82.1	61.6	45.2	24.6	12.3	4.1	4.1
82.5°	78.0	90.3	98.5	86.2	73.9	53.4	41.1	24.6	12.3	4.1	4.1
85°	16.4	20.5	24.6	24.6	28.7	37.0	28.7	20.5	8.2	4.1	4.1
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	8.2	8.2	4.1	4.1	4.1
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)