

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: P533921

Luminaire Tested: **GALN-SA9B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533921
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-SA9B-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 28288 lumens
Efficiency: N/A
Efficacy: 77.7 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

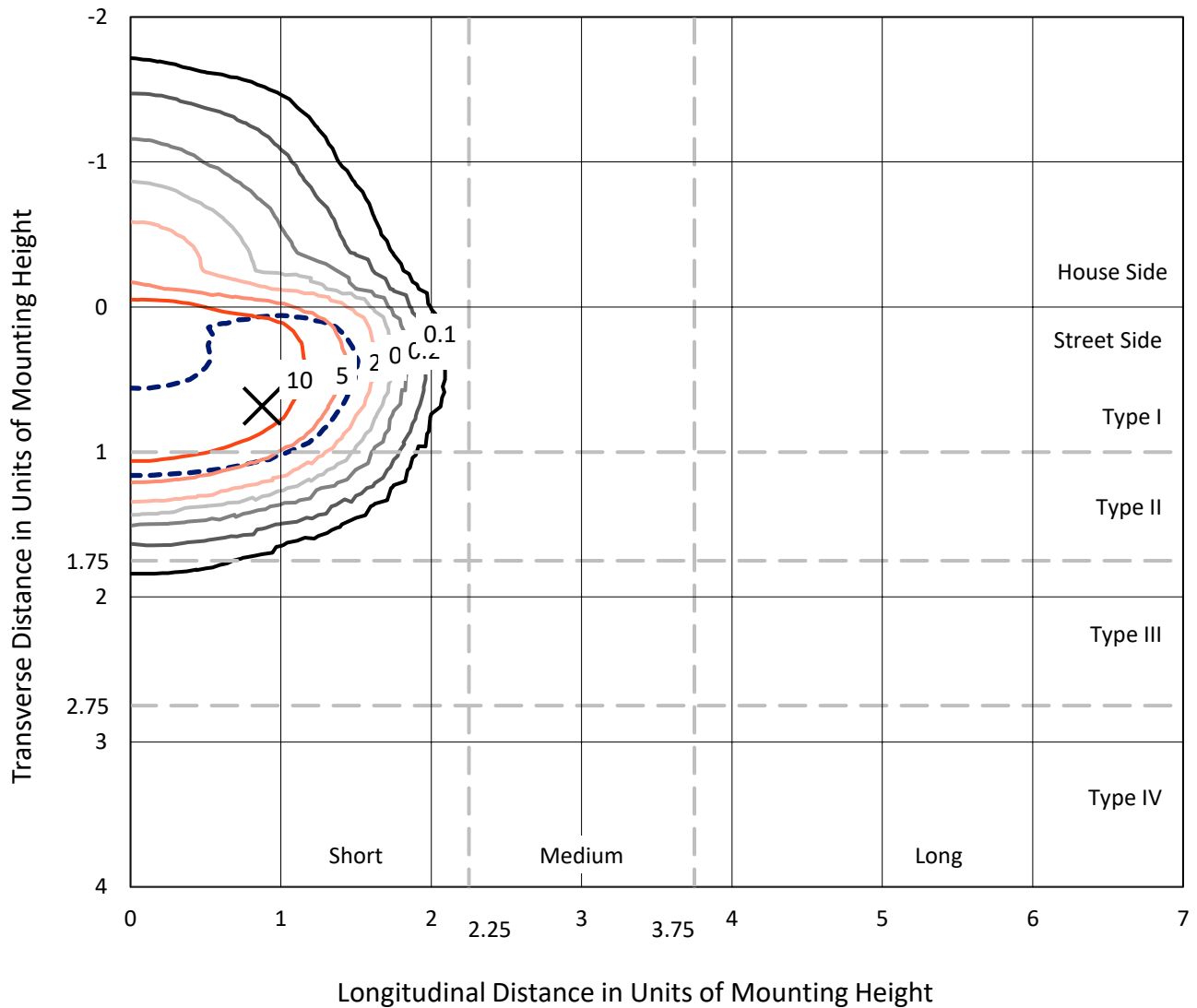
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533921
 CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

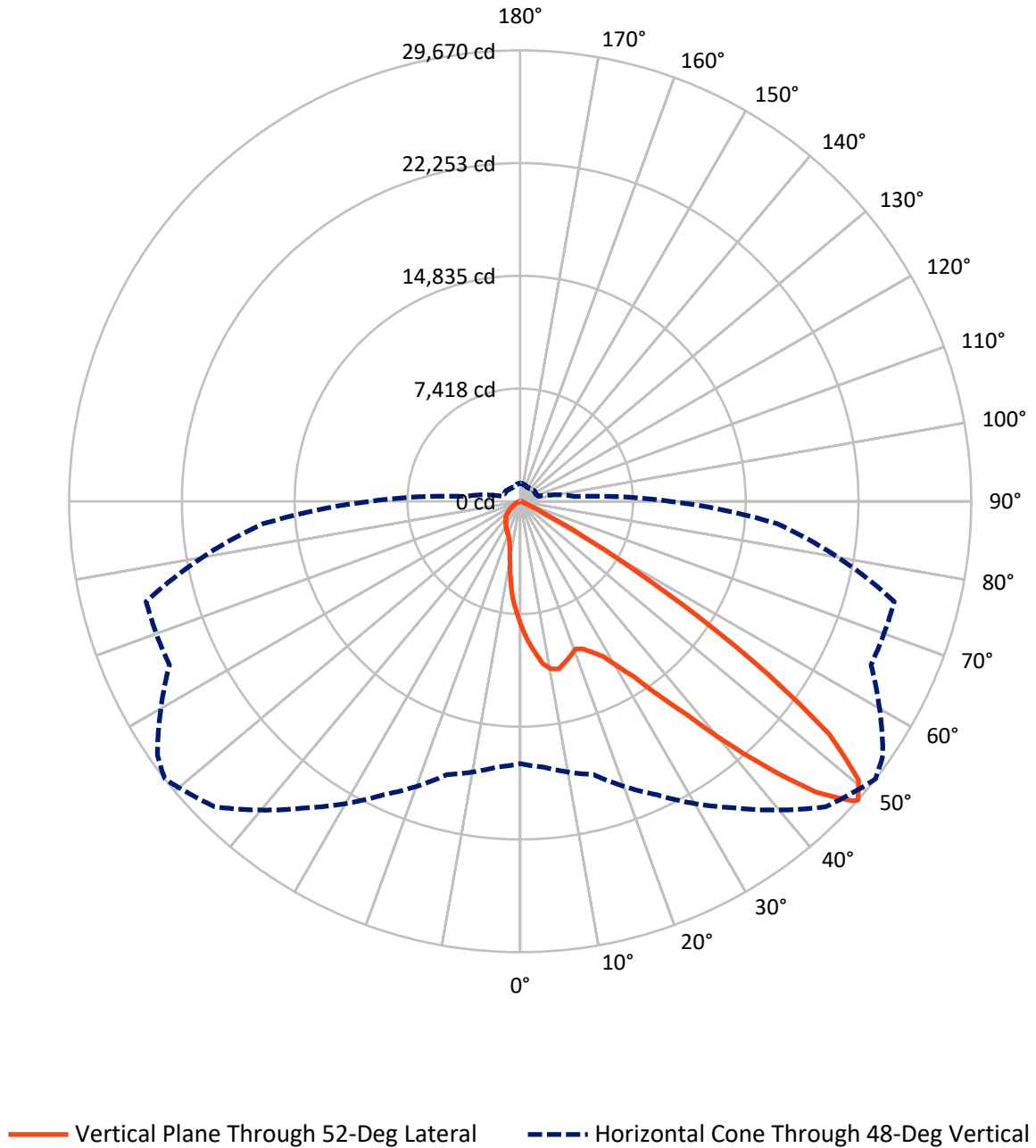
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

REPORT NUMBER: P533921
CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

Luminous Intensity Polar Plot



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 CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

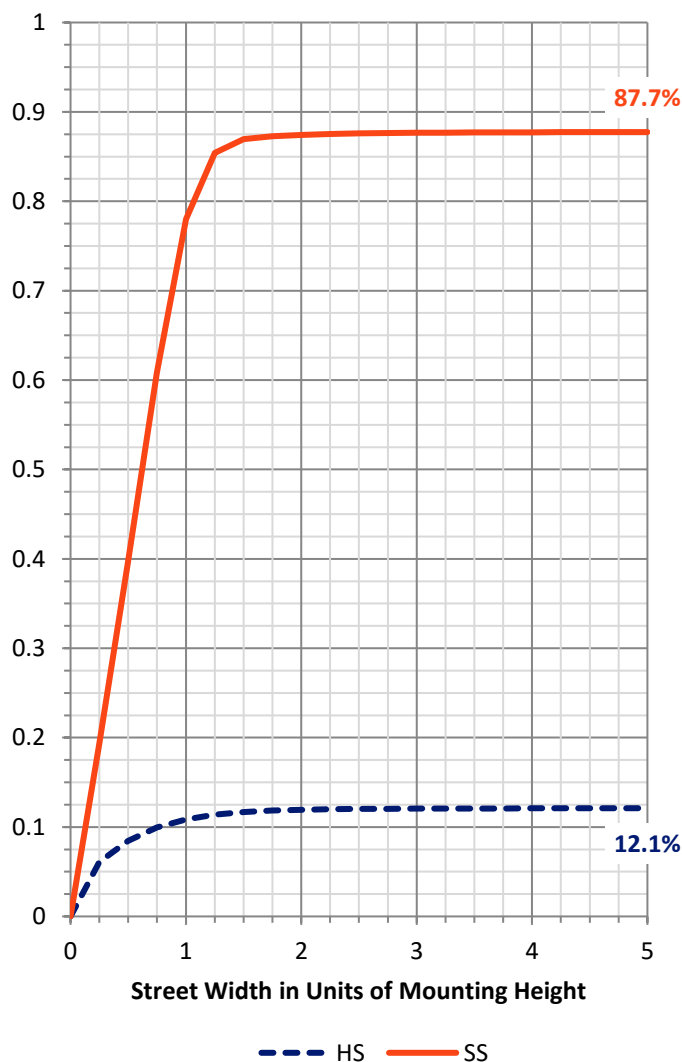
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.3	0.0	3444.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	24843.7	0.0	24843.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	28288.0	0.0	28288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.7	2.6
10°-20°	1954.0	6.9
20°-30°	3336.3	11.8
30°-40°	6143.8	21.7
40°-50°	9541.4	33.7
50°-60°	5742.3	20.3
60°-70°	664.2	2.3
70°-80°	128.6	0.5
80°-90°	29.7	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°	28288.0	100.0
0°-180°	28288.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533921

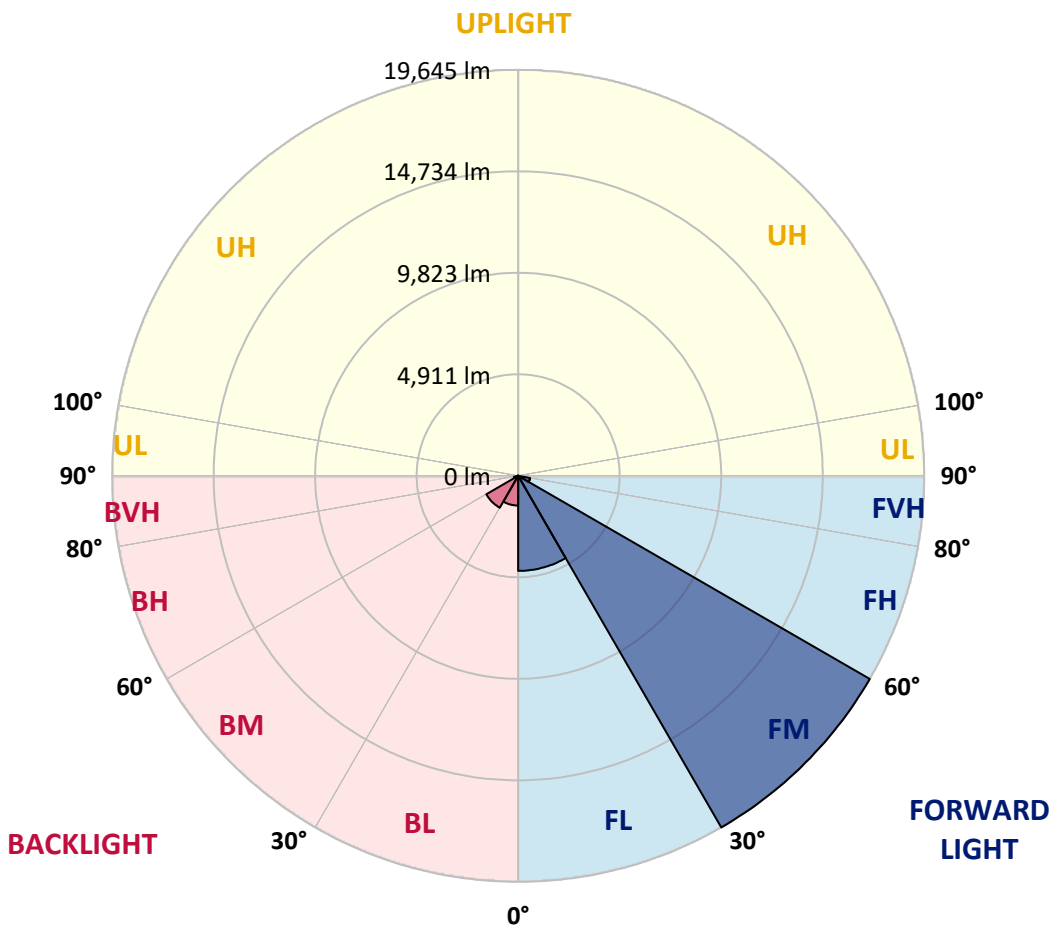
CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4599.3	16.3			
FM (30°-60°)	19645.5	69.4			
FH (60°-80°)	584.8	2.1			G0/660
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1438.8	5.1	B3/2500		
BM (30°-60°)	1782.0	6.3	B2/2500		
BH (60°-80°)	207.9	0.7	B1/500		G1/500
BVH (80°-90°)	15.6	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: P533921

CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	9901.1	9674.3	9694.9	9546.4	9459.8	9319.6	9129.9	9092.8	8886.6	8606.2	8321.7
5°	10791.8	10738.2	10808.3	10593.9	10602.1	10371.2	9925.8	9934.1	9459.8	9002.1	8560.9
7.5°	10849.5	10725.8	10795.9	10985.6	11097.0	11055.7	10804.2	10585.6	10136.1	9464.0	8820.7
10°	9715.5	9950.6	10024.8	10338.2	10783.5	11253.7	11224.8	11237.2	10861.9	9983.5	9043.3
12.5°	9035.1	8878.4	9129.9	9319.6	9991.8	10903.1	11319.6	11410.4	11439.2	10486.6	9266.0
15°	8725.8	8725.8	8767.0	8820.7	9307.3	10148.5	10998.0	11261.9	11884.6	11146.4	9616.5
17.5°	8919.6	8911.4	8969.1	8857.8	9039.2	9686.6	10701.1	11002.1	12383.6	11793.9	9892.8
20°	9509.3	9538.2	9501.1	9179.4	9191.8	9678.4	10371.2	10845.4	12721.7	12354.7	10259.8
22.5°	10329.9	10346.4	10136.1	9785.6	9682.5	9921.7	10560.9	10923.8	12993.9	13026.9	10371.2
25°	11278.4	11212.4	11171.2	10676.3	10362.9	10569.1	10989.7	11200.0	13162.9	13604.2	10688.7
27.5°	12593.9	12461.9	12210.4	11769.1	11538.2	11245.4	11546.4	11892.8	13645.4	14412.4	11035.1
30°	14536.1	14420.7	13930.0	13360.9	12754.7	12466.0	12560.9	12750.6	14515.5	15348.5	11492.8
32.5°	17459.9	17216.6	16507.3	15422.7	14598.0	13802.1	13777.4	13979.4	15294.9	16643.4	12037.2
35°	20680.5	20606.3	19563.0	18445.4	16849.6	15620.7	15641.3	15748.5	16787.7	18342.3	12750.6
37.5°	22820.7	23229.0	22565.0	21365.0	20024.8	18268.1	17822.8	17859.9	18837.2	20354.7	14037.2
40°	24474.3	24127.9	24206.3	23925.9	23010.4	21814.5	20828.9	20635.1	21208.3	22581.5	15315.5
42.5°	23752.7	23769.2	24251.6	24915.6	25142.4	25055.8	24049.6	23682.6	23237.2	24404.2	16532.0
45°	21715.6	22140.3	22767.1	24523.8	26066.1	27513.5	27315.6	26705.3	24639.3	25847.5	17233.1
47.5°	18466.1	18449.6	19476.4	21760.9	25187.7	28577.4	29476.4	29047.5	25633.1	25686.7	17088.7
48°	17266.0	17563.0	18622.8	21311.4	24631.0	28420.7	29670.2	29130.0	25464.0	25472.3	16965.0
50°	12762.9	12709.3	14028.9	17327.9	22000.1	26705.3	28853.7	29274.3	25459.9	24387.7	16099.0
52.5°	6742.3	6973.2	7934.1	10894.9	15554.7	21855.8	25451.6	26107.3	24560.9	22614.5	14853.7
55°	2866.0	2589.7	3327.8	4919.6	8750.6	14602.1	18672.2	20132.0	20767.1	20012.5	12993.9
57.5°	1022.7	1117.5	1286.6	1851.6	3678.4	7991.8	11134.1	12268.1	14387.7	14684.6	8853.6
60°	655.7	668.0	721.7	849.5	1381.4	3080.4	5282.5	6185.6	7146.4	7377.3	4132.0
62.5°	507.2	511.3	536.1	556.7	655.7	1195.9	1983.5	2350.5	2441.2	2099.0	1084.5
65°	424.7	428.9	437.1	437.1	466.0	560.8	692.8	762.9	742.3	734.0	614.4
67.5°	325.8	334.0	350.5	350.5	367.0	342.3	383.5	408.2	461.9	560.8	523.7
70°	255.7	259.8	272.2	280.4	280.4	247.4	276.3	301.0	338.1	416.5	412.4
72.5°	197.9	206.2	214.4	214.4	202.1	169.1	197.9	218.6	243.3	288.7	280.4
75°	152.6	152.6	156.7	127.8	99.0	86.6	119.6	144.3	181.4	189.7	156.7
77.5°	41.2	45.4	41.2	37.1	41.2	61.9	78.4	90.7	115.5	115.5	103.1
80°	0.0	4.1	12.4	24.7	41.2	57.7	70.1	78.4	90.7	99.0	94.8
82.5°	0.0	4.1	12.4	24.7	37.1	45.4	61.9	66.0	74.2	86.6	86.6
85°	0.0	4.1	8.2	16.5	24.7	28.9	28.9	24.7	24.7	20.6	16.5
87.5°	0.0	0.0	4.1	8.2	8.2	12.4	12.4	12.4	12.4	12.4	12.4
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: P533921

CATALOG NUMBER: GALN-SA9B-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	8210.3	8082.5	7888.7	7583.5	7290.8	7101.1	6919.6	6717.6	6606.2	6598.0	6536.1
5°	8309.3	8020.7	7558.8	7035.1	6474.3	5991.8	5505.2	5187.6	4903.1	4746.4	4717.5
7.5°	8362.9	7987.7	7241.3	6362.9	5406.2	4618.6	4074.2	3674.2	3517.5	3402.1	3398.0
10°	8474.3	7929.9	6767.0	5472.2	4288.7	3492.8	3117.5	2936.1	2849.5	2816.5	2767.0
12.5°	8556.7	7822.7	6280.4	4556.7	3389.7	2894.9	2729.9	2688.7	2692.8	2709.3	2688.7
15°	8672.2	7727.9	5624.8	3740.2	2845.4	2606.2	2606.2	2614.4	2672.2	2680.4	2676.3
17.5°	8664.0	7542.3	4948.5	3080.4	2515.5	2482.5	2494.9	2573.2	2610.3	2622.7	2593.8
20°	8762.9	7369.1	4251.6	2630.9	2329.9	2379.4	2461.9	2482.5	2527.8	2536.1	2503.1
22.5°	8734.1	6936.1	3604.1	2276.3	2189.7	2284.5	2367.0	2391.8	2379.4	2354.6	2350.5
25°	8680.4	6565.0	3010.3	2041.2	2086.6	2189.7	2268.1	2222.7	2197.9	2202.1	2206.2
27.5°	8585.6	6094.9	2519.6	1876.3	1946.4	2099.0	2094.9	2078.4	2103.1	2082.5	2103.1
30°	8569.1	5624.8	2115.5	1727.8	1843.3	1954.6	1962.9	1991.8	2020.6	1983.5	2020.6
32.5°	8593.8	5109.3	1826.8	1637.1	1781.5	1785.6	1876.3	1905.2	1884.5	1802.1	1810.3
35°	8783.5	4713.4	1616.5	1587.6	1682.5	1686.6	1773.2	1736.1	1645.4	1595.9	1624.7
37.5°	9183.5	4383.5	1517.5	1542.3	1550.5	1604.1	1608.3	1534.0	1542.3	1538.2	1554.6
40°	9694.9	4132.0	1447.4	1501.0	1492.8	1529.9	1381.4	1422.7	1459.8	1472.2	1480.4
42.5°	10045.4	3950.5	1402.1	1435.1	1418.6	1352.6	1270.1	1311.3	1340.2	1385.6	1393.8
45°	10202.1	3806.2	1348.5	1319.6	1319.6	1200.0	1167.0	1175.3	1241.2	1290.7	1282.5
47.5°	9946.4	3666.0	1253.6	1167.0	1195.9	1096.9	1059.8	1059.8	1129.9	1191.8	1179.4
48°	9847.5	3608.3	1257.7	1134.0	1154.6	1080.4	1043.3	1035.1	1113.4	1171.1	1171.1
50°	9356.7	3393.8	1150.5	1043.3	1002.1	993.8	969.1	977.3	1026.8	1080.4	1080.4
52.5°	8400.0	2932.0	973.2	894.8	820.6	870.1	882.5	866.0	890.7	940.2	936.1
55°	7010.3	2251.6	779.4	742.3	684.5	738.1	762.9	742.3	717.5	754.6	754.6
57.5°	4490.7	1212.4	622.7	630.9	573.2	626.8	647.4	597.9	552.6	581.4	577.3
60°	2024.8	725.8	511.3	499.0	461.9	523.7	556.7	499.0	437.1	457.7	478.4
62.5°	758.8	515.5	387.6	379.4	371.1	428.9	445.4	400.0	338.1	350.5	354.6
65°	556.7	453.6	309.3	280.4	296.9	338.1	329.9	284.5	243.3	243.3	251.5
67.5°	474.2	395.9	251.5	218.6	218.6	222.7	206.2	181.4	169.1	177.3	185.6
70°	371.1	313.4	197.9	169.1	152.6	136.1	119.6	115.5	103.1	115.5	111.3
72.5°	239.2	210.3	152.6	127.8	115.5	94.8	78.4	74.2	61.9	57.7	57.7
75°	127.8	127.8	119.6	103.1	90.7	74.2	61.9	49.5	33.0	24.7	24.7
77.5°	90.7	99.0	107.2	99.0	82.5	61.9	49.5	33.0	16.5	8.2	8.2
80°	86.6	99.0	107.2	94.8	82.5	61.9	45.4	24.7	12.4	4.1	4.1
82.5°	78.4	90.7	99.0	86.6	74.2	53.6	41.2	24.7	12.4	4.1	4.1
85°	16.5	20.6	24.7	24.7	28.9	37.1	28.9	20.6	8.2	4.1	4.1
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	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)