

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: P648474

Luminaire Tested: **GALN-SA6B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21646 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

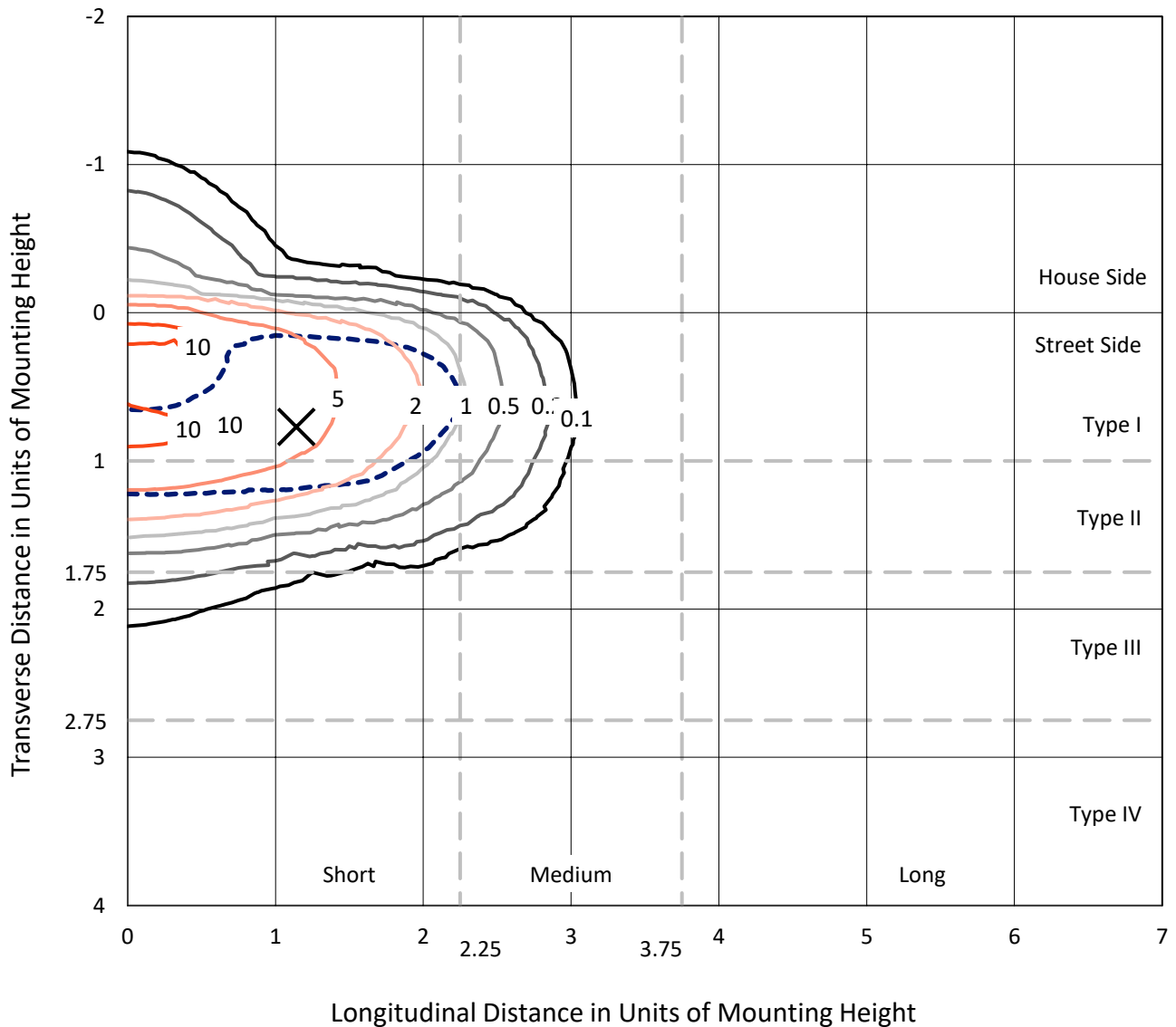
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648474
 CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

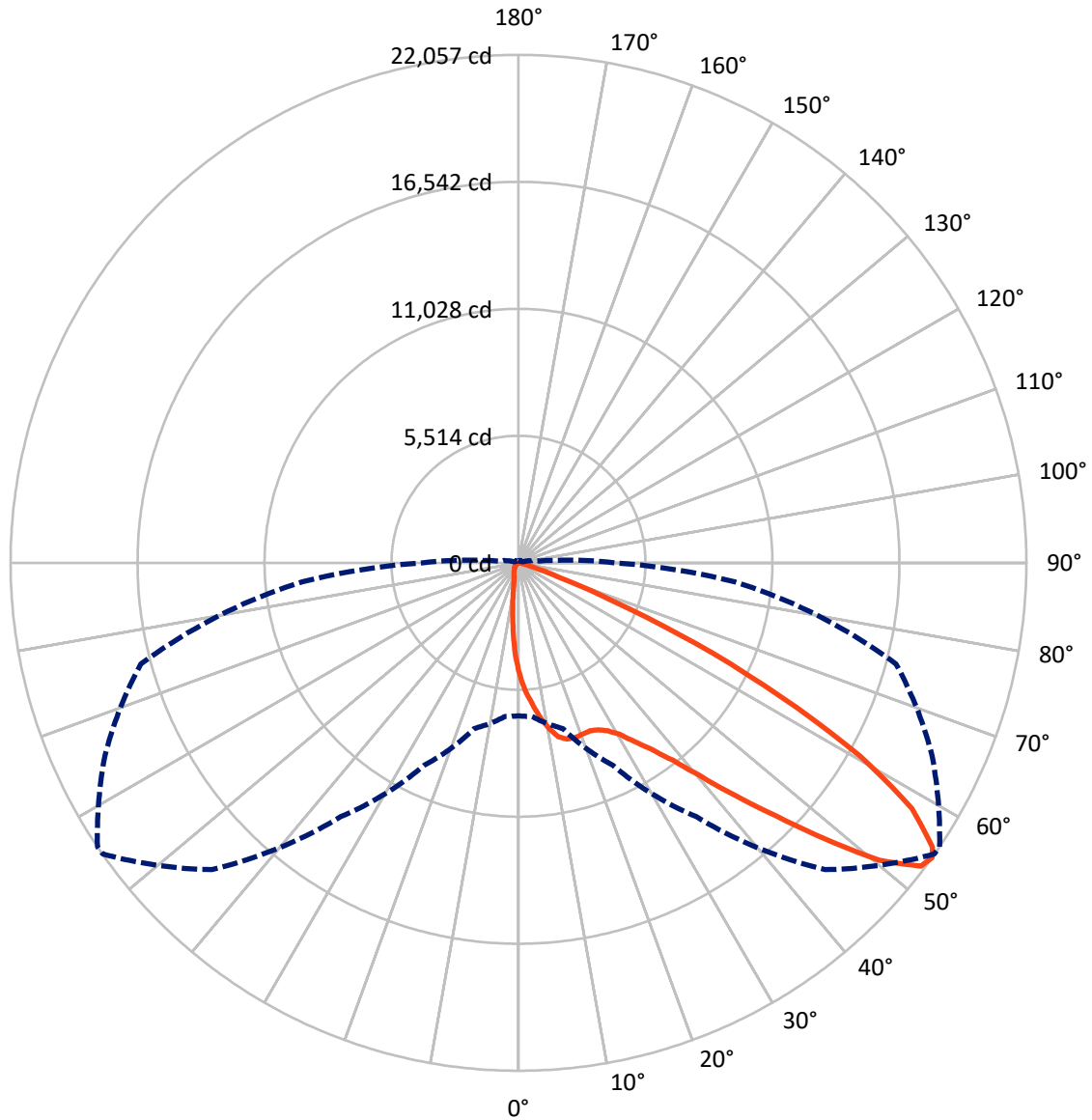
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

REPORT NUMBER: P648474
CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P648474
 CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

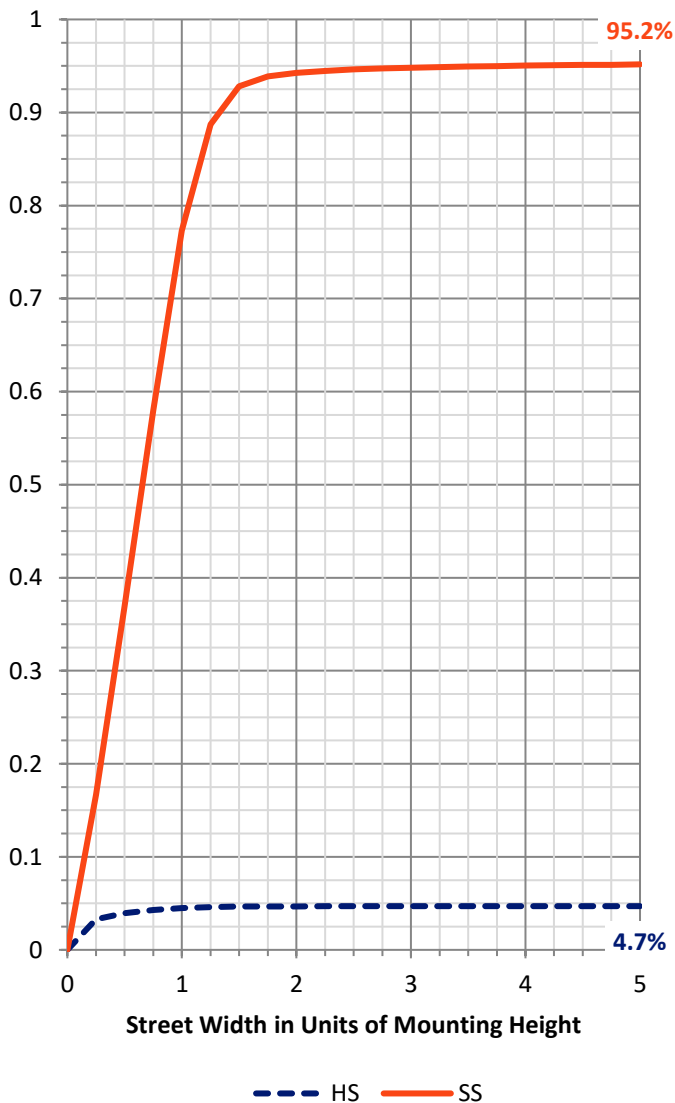
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.6	0.0	1023.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20622.4	0.0	20622.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	21646.0	0.0	21646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.0	2.0
10°-20°	1148.8	5.3
20°-30°	1989.7	9.2
30°-40°	3434.5	15.9
40°-50°	5845.6	27.0
50°-60°	5784.9	26.7
60°-70°	2640.3	12.2
70°-80°	339.1	1.6
80°-90°	38.2	0.2
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°	21646.0	100.0
0°-180°	21646.0	100.0

Coefficient of Utilization



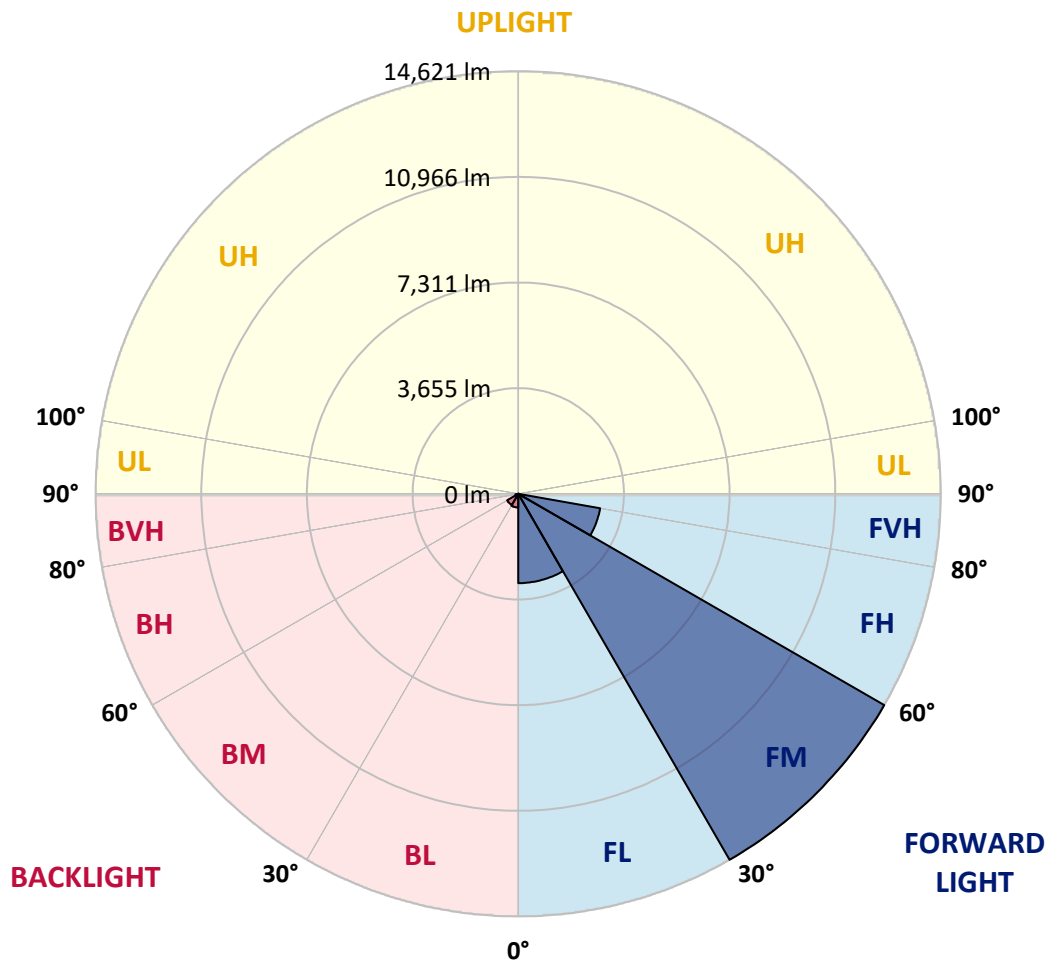
REPORT NUMBER: P648474
 CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.1	14.3			
FM (30°-60°)	14621.3	67.5			
FH (60°-80°)	2876.9	13.3			G2/5000
FVH (80°-90°)	34.1	0.2			G1/100
BL (0°-30°)	473.4	2.2	B1/500		
BM (30°-60°)	443.6	2.0	B1/1000		
BH (60°-80°)	102.5	0.5	B0/110		G0/110
BVH (80°-90°)	4.1	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 II Short





REPORT NUMBER: P648474

CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1
2.5°	6111.8	6069.4	6011.0	5965.8	5859.2	5705.8	5543.7	5543.7	5387.4	5169.8	4947.9
5°	7049.4	7021.6	6964.7	6847.9	6728.1	6513.4	6187.7	6130.8	5851.8	5457.5	5042.8
7.5°	7430.6	7443.7	7446.6	7415.9	7359.0	7147.2	6824.5	6785.1	6339.6	5811.0	5166.9
10°	7065.5	7129.7	7192.5	7319.6	7499.2	7550.3	7367.8	7326.8	6888.8	6168.8	5301.3
12.5°	6522.2	6557.2	6592.3	6792.4	7153.1	7566.4	7757.7	7756.2	7385.3	6525.1	5472.2
15°	6269.6	6300.2	6303.2	6392.2	6704.8	7306.4	7924.2	7946.1	7870.2	6964.7	5656.2
17.5°	6322.1	6346.9	6326.5	6348.4	6512.0	7020.2	7905.2	7978.2	8263.0	7386.7	5822.6
20°	6665.3	6713.5	6634.7	6573.3	6622.9	6944.3	7841.0	7943.1	8540.5	7798.6	5974.5
22.5°	7281.6	7307.9	7208.6	7040.7	6953.0	7103.5	7823.4	7924.2	8777.0	8135.9	6062.1
25°	7966.6	7957.8	7848.2	7659.9	7475.8	7424.7	7938.8	8029.4	8972.8	8439.7	6088.5
27.5°	8651.4	8677.8	8493.7	8260.1	8039.5	7906.7	8197.3	8264.5	9193.3	8785.8	6120.6
30°	9447.4	9405.0	9224.0	8956.7	8704.1	8518.6	8613.5	8632.5	9497.0	9244.4	6205.3
32.5°	10482.8	10366.0	10162.9	9695.7	9514.5	9200.6	9224.0	9247.3	9866.5	9698.6	6307.5
35°	11887.7	11881.9	11484.7	10855.2	10414.2	10024.3	9922.0	9941.0	10425.9	10373.3	6533.9
37.5°	13578.9	13602.3	13149.5	12515.7	11703.7	11084.5	10874.2	10877.1	11275.8	11305.0	6878.5
40°	14956.1	15017.4	14747.2	14319.3	13517.6	12549.3	12195.9	12163.7	12470.4	12433.9	7370.7
42.5°	15549.0	15605.9	15706.7	15855.7	15414.6	14615.8	13781.9	13825.7	13919.2	13663.6	7922.7
45°	15258.3	15348.9	15744.6	16664.7	17079.5	16810.8	15816.2	15662.9	15267.1	14999.9	8477.7
47.5°	14047.6	14268.2	14929.8	16461.7	17913.4	18821.8	18112.0	17909.0	16616.5	15975.4	8831.1
50°	12057.1	12070.3	12991.8	14950.2	17481.1	20090.8	20456.0	20304.1	17873.9	16523.1	9009.3
52.5°	8740.6	9028.2	9872.4	12140.4	15608.9	19898.1	21949.9	21887.1	19170.8	16803.5	9266.3
54°	6644.9	6700.4	7451.0	9701.5	13457.7	18839.3	22041.9	22056.6	19814.8	16972.9	9418.2
55°	5447.3	5314.5	6103.0	8264.5	11989.9	17903.1	21741.1	21811.2	20104.0	17060.5	9530.6
57.5°	2582.0	2583.4	3186.6	4359.4	7509.4	13901.6	19902.5	20150.7	20136.1	17210.9	9876.8
60°	1307.1	1315.8	1448.7	2012.5	3709.5	9241.4	16455.9	17047.3	18586.6	17232.8	9990.7
62.5°	914.2	904.0	882.0	968.3	1561.1	4696.7	12251.4	12765.4	15791.4	16398.9	9628.5
65°	782.8	760.8	699.5	686.4	788.6	1870.8	7630.6	8468.9	12057.1	14199.5	8597.4
67.5°	668.8	660.1	604.6	571.0	557.9	814.9	3937.2	4378.3	8241.1	10206.8	6512.0
70°	568.1	563.7	530.1	487.8	451.2	487.8	1460.4	1809.4	4593.0	5495.5	3072.7
72.5°	461.5	465.9	471.7	417.7	379.7	346.1	623.6	725.8	1921.9	1964.2	1074.8
75°	404.5	400.1	400.1	363.6	316.9	257.1	343.2	369.5	588.6	546.2	249.7
77.5°	284.8	274.5	321.3	299.4	264.3	182.5	195.7	207.4	243.9	208.8	116.8
80°	197.2	197.2	205.9	268.7	238.0	132.9	119.7	128.5	144.5	124.1	67.2
82.5°	111.0	113.9	134.4	143.1	138.7	89.1	78.8	80.3	96.4	84.7	42.4
85°	13.2	21.9	77.4	76.0	56.9	39.5	43.8	45.3	59.9	52.5	24.8
87.5°	1.5	2.9	16.1	20.4	14.6	16.1	16.1	16.1	20.4	23.3	17.5
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: P648474

CATALOG NUMBER: GALN-SA6B-835-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1	4809.1
2.5°	4828.1	4717.1	4452.8	4146.1	3950.4	3632.0	3363.3	3169.1	3120.9	3027.4	3055.2
5°	4822.3	4591.5	4052.7	3483.1	2875.6	2422.8	2085.4	1819.7	1702.9	1625.4	1571.4
7.5°	4825.2	4464.4	3599.9	2693.0	1967.2	1523.2	1210.7	1048.6	940.5	895.2	901.1
10°	4833.9	4321.4	3074.1	1994.9	1327.5	984.3	793.0	715.6	679.1	673.2	671.8
12.5°	4854.4	4165.1	2571.8	1480.9	928.8	715.6	642.6	616.3	604.6	604.6	600.2
15°	4876.3	3992.8	2154.1	1101.1	715.6	614.8	581.2	568.1	560.8	560.8	559.4
17.5°	4876.3	3794.1	1764.2	854.3	616.3	565.2	538.9	521.4	515.5	515.5	514.0
20°	4845.7	3563.4	1418.1	687.9	559.4	518.4	492.2	473.2	465.9	463.0	461.5
22.5°	4739.0	3255.2	1128.9	591.5	512.6	477.6	444.0	422.0	416.2	413.3	414.8
25°	4549.2	2907.7	893.8	519.9	470.3	427.9	398.7	382.7	376.8	376.8	378.3
27.5°	4353.5	2544.0	708.3	465.9	419.1	381.2	357.8	347.6	346.1	350.5	352.0
30°	4172.4	2178.9	573.9	422.0	373.9	341.7	325.6	322.8	322.8	324.2	325.6
32.5°	3970.8	1859.1	480.4	384.1	337.3	309.6	300.8	300.8	303.8	303.8	306.7
35°	3843.8	1584.6	422.0	347.6	309.6	286.3	280.4	281.9	286.3	292.1	295.0
37.5°	3775.2	1365.5	384.1	318.4	283.3	267.2	261.4	264.3	274.5	284.8	286.3
40°	3781.0	1200.4	353.4	293.5	262.9	245.3	240.9	249.7	260.0	270.2	271.6
42.5°	3845.2	1077.8	324.2	264.3	245.3	220.5	219.1	227.9	232.2	242.4	243.9
45°	3921.2	988.7	293.5	233.6	213.2	191.3	192.8	200.1	205.9	222.0	224.9
47.5°	3944.6	927.4	258.5	198.6	175.2	168.0	169.4	173.8	185.5	200.1	201.5
50°	3970.8	889.4	224.9	168.0	148.9	147.5	148.9	151.9	159.2	165.1	163.6
52.5°	4083.3	887.9	197.2	146.0	127.1	130.0	131.5	130.0	124.1	115.3	112.4
54°	4188.4	892.3	184.0	135.9	116.8	121.2	119.7	112.4	97.9	89.1	84.7
55°	4273.1	896.7	176.7	128.5	111.0	112.4	113.9	99.3	80.3	71.6	68.7
57.5°	4439.6	886.4	159.2	112.4	97.9	92.0	90.5	65.7	43.8	38.0	35.1
60°	4356.4	800.3	144.5	96.4	83.2	74.5	61.3	36.5	21.9	16.1	16.1
62.5°	4029.2	679.1	128.5	78.8	68.7	56.9	32.1	20.4	10.3	5.9	4.4
65°	3604.3	571.0	115.3	62.8	54.0	36.5	17.5	13.2	4.4	0.0	0.0
67.5°	2679.8	423.5	97.9	49.6	40.9	23.3	11.7	7.3	1.5	0.0	0.0
70°	1241.4	258.5	83.2	38.0	29.2	17.5	8.8	4.4	0.0	0.0	0.0
72.5°	356.3	162.1	68.7	27.7	20.4	14.6	7.3	2.9	1.5	0.0	0.0
75°	124.1	130.0	51.1	20.4	16.1	10.3	5.9	2.9	1.5	0.0	0.0
77.5°	74.5	105.2	32.1	17.5	13.2	8.8	5.9	2.9	1.5	1.5	0.0
80°	42.4	70.1	20.4	14.6	11.7	7.3	4.4	2.9	1.5	1.5	0.0
82.5°	23.3	33.6	16.1	13.2	10.3	7.3	4.4	2.9	1.5	1.5	1.5
85°	18.9	17.5	13.2	11.7	8.8	5.9	4.4	1.5	0.0	0.0	0.0
87.5°	14.6	11.7	11.7	11.7	8.8	5.9	4.4	1.5	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)