

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: P652034

Luminaire Tested: **GALN-SA7A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19290 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 215
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

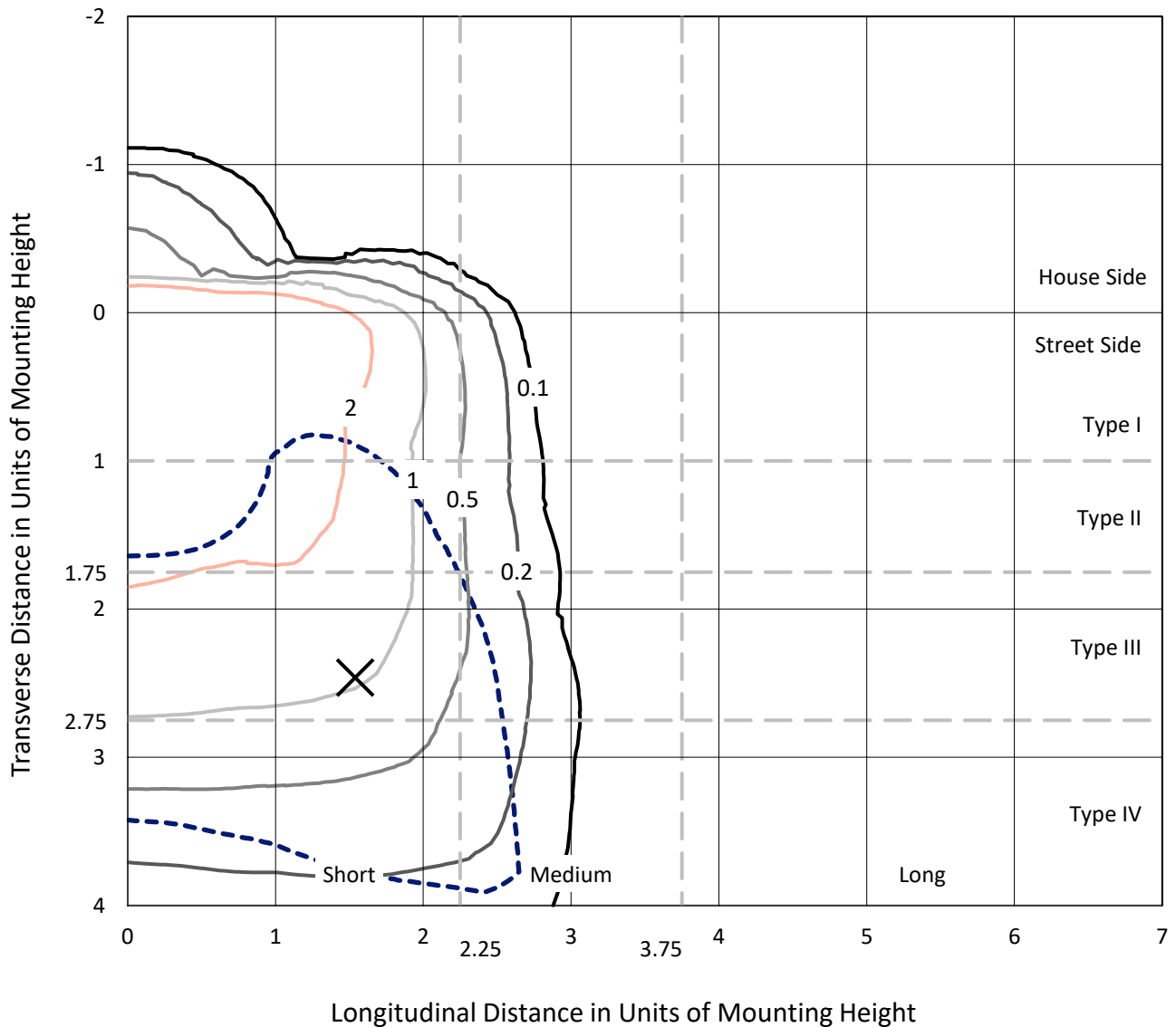




REPORT NUMBER: P652034
 CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

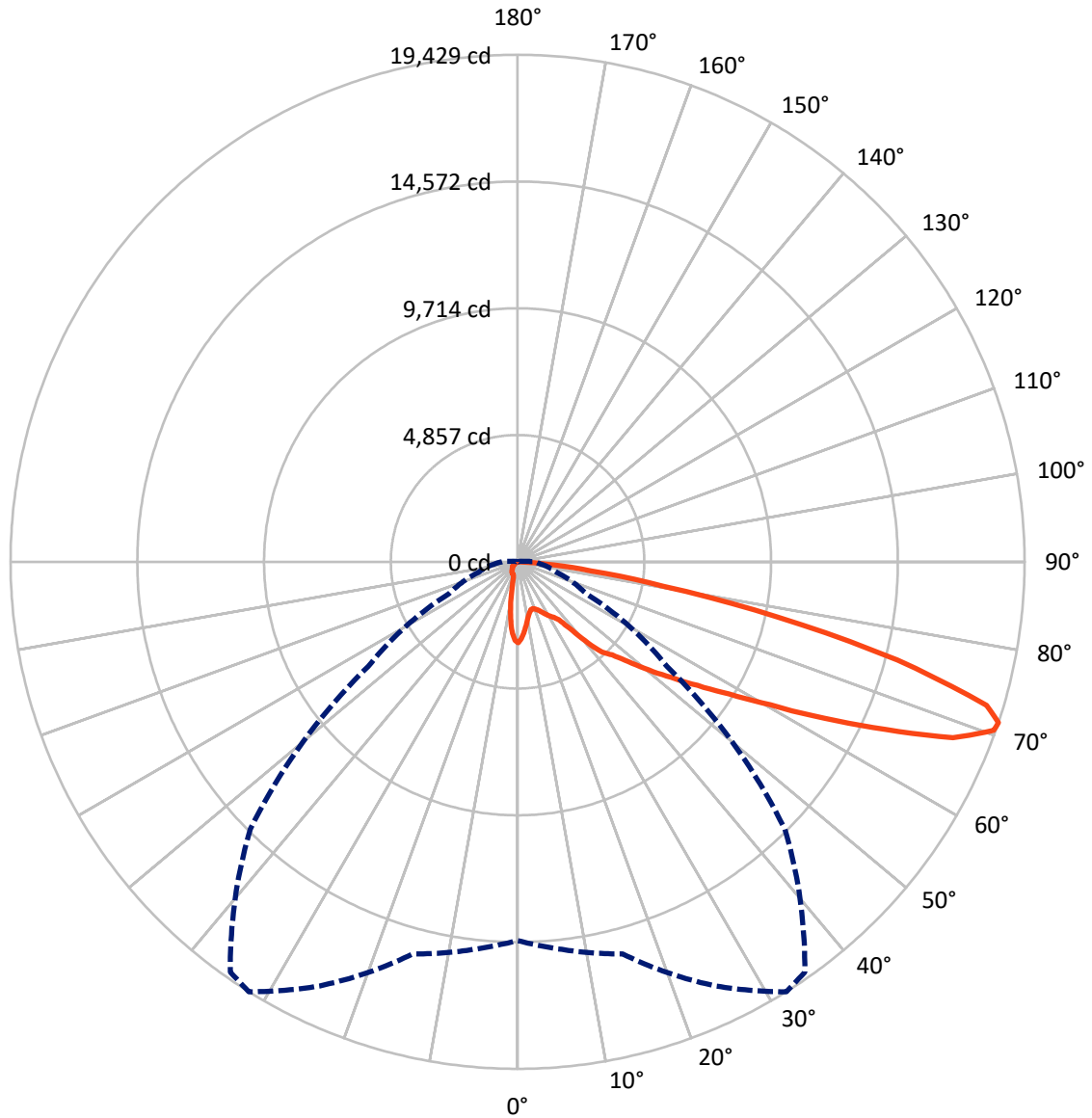
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P652034
CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P652034
 CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

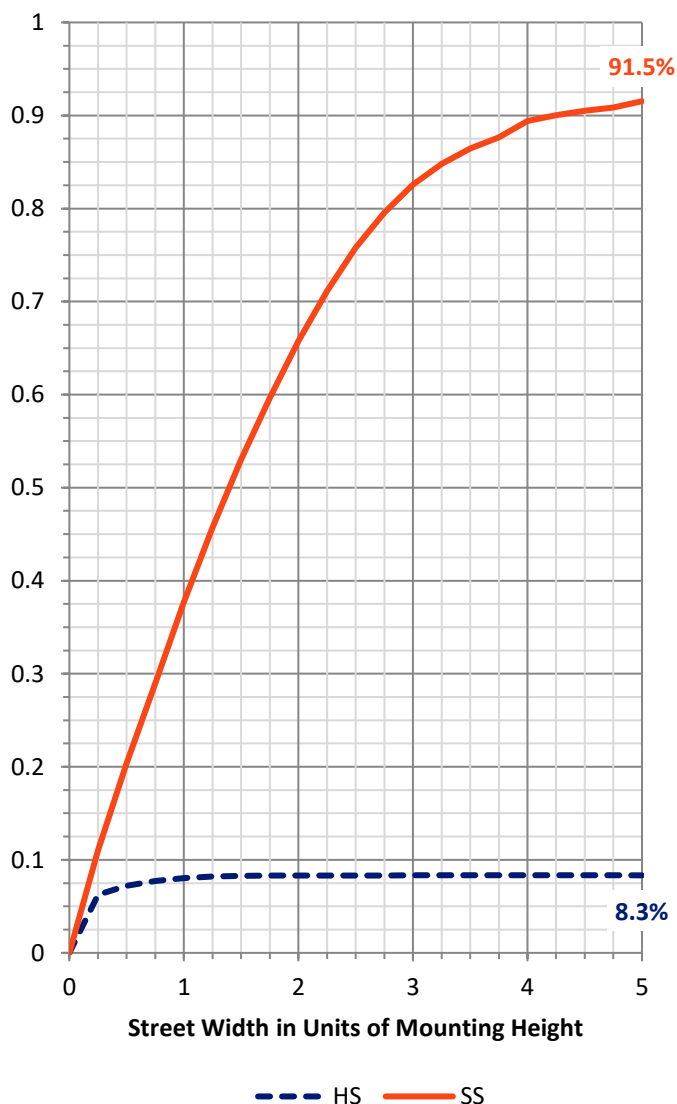
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.7	0.0	1615.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17674.3	0.0	17674.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	19290.0	0.0	19290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.3
10°-20°	547.5	2.8
20°-30°	851.7	4.4
30°-40°	1418.9	7.4
40°-50°	2639.3	13.7
50°-60°	4237.6	22.0
60°-70°	5699.7	29.5
70°-80°	3381.7	17.5
80°-90°	261.4	1.4
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°	19290.0	100.0
0°-180°	19290.0	100.0

Coefficient of Utilization

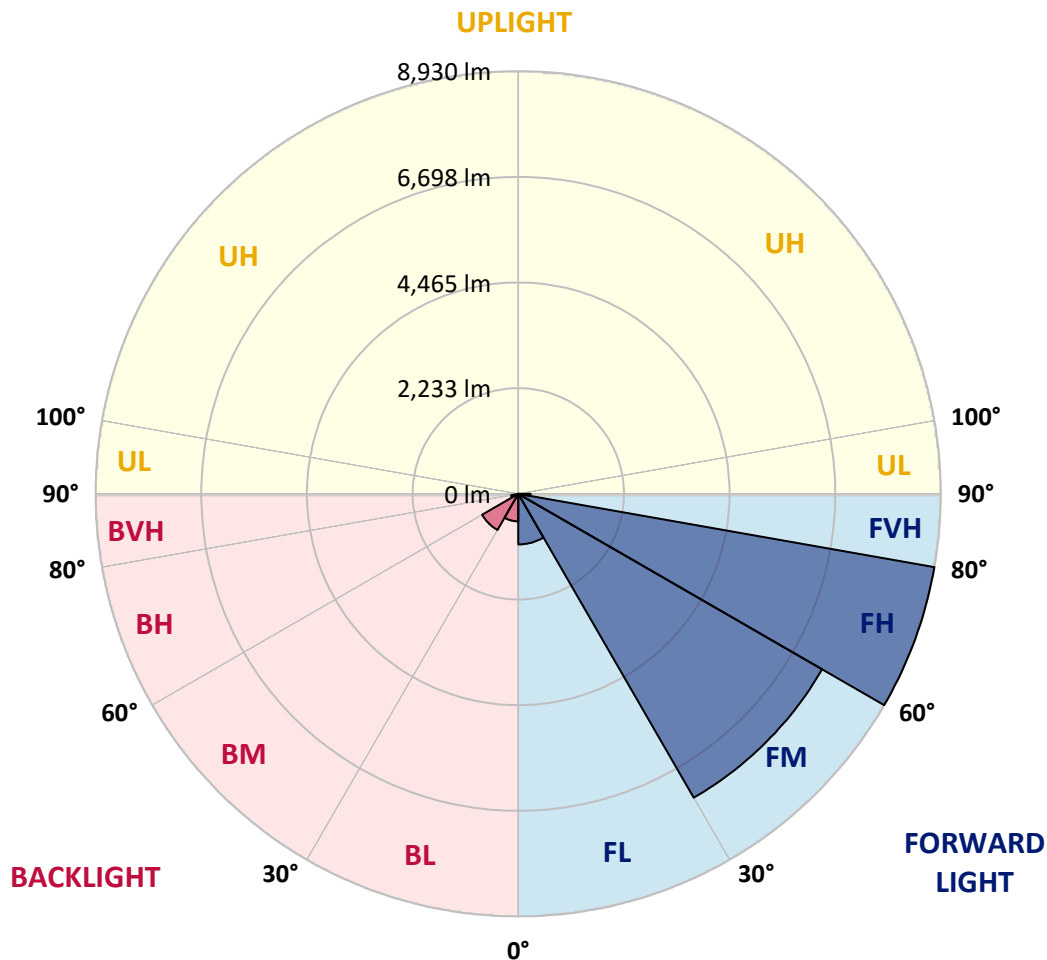


REPORT NUMBER: P652034
 CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.2	5.5			
FM (30°-60°)	7414.4	38.4			
FH (60°-80°)	8930.3	46.3			G4/12000
FVH (80°-90°)	260.4	1.3			G3/500
BL (0°-30°)	582.2	3.0	B2/1000		
BM (30°-60°)	881.4	4.6	B1/1000		
BH (60°-80°)	151.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P652034

CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1
2.5°	2877.1	2906.7	2902.2	2912.6	2937.8	2948.1	2976.3	3007.3	3050.3	3079.9	3099.2
5°	2576.5	2598.7	2601.6	2653.4	2678.7	2706.8	2789.7	2880.0	2980.8	3060.7	3114.0
7.5°	2255.1	2267.0	2290.7	2358.8	2422.5	2450.6	2576.5	2733.4	2891.9	3041.4	3137.7
10°	1990.1	2003.4	2046.4	2118.9	2178.2	2215.2	2389.9	2586.8	2808.9	3031.0	3171.7
12.5°	1839.1	1846.5	1862.7	1927.9	2003.4	2043.4	2231.4	2456.6	2742.3	3035.5	3229.4
15°	1828.7	1825.7	1806.5	1833.1	1901.2	1942.7	2126.3	2367.7	2683.1	3050.3	3297.6
17.5°	1883.5	1876.1	1830.2	1830.2	1886.4	1920.5	2081.9	2320.3	2653.4	3084.4	3393.9
20°	1967.9	1956.1	1880.6	1874.6	1929.4	1964.9	2108.6	2323.3	2659.4	3148.0	3522.7
22.5°	2074.5	2061.2	1947.2	1950.1	2009.3	2044.9	2185.6	2376.6	2696.4	3226.5	3660.4
25°	2213.7	2198.9	2064.2	2058.2	2120.4	2151.5	2299.5	2471.4	2748.2	3324.2	3841.0
27.5°	2398.8	2367.7	2206.3	2197.4	2264.1	2304.0	2437.3	2598.7	2840.1	3459.0	4083.9
30°	2551.3	2517.3	2363.2	2339.6	2410.6	2441.8	2579.4	2770.4	3020.7	3694.4	4420.0
32.5°	2751.2	2700.9	2520.2	2458.0	2533.5	2573.5	2785.2	3090.3	3288.7	3943.2	4819.8
35°	3201.4	3170.2	2949.6	2732.0	2727.5	2777.8	3088.8	3413.1	3564.2	4331.2	5364.7
37.5°	3845.5	3823.3	3589.3	3297.6	3213.2	3189.5	3457.5	3768.4	4003.9	4864.2	5998.4
40°	4593.2	4541.4	4326.7	4079.4	3969.9	3900.2	3892.8	4297.1	4578.4	5588.3	6658.9
42.5°	5129.3	5034.5	4773.9	4756.1	4732.4	4659.9	4449.6	5070.1	5320.3	6367.1	7365.1
45°	5692.0	5548.3	5160.4	5093.7	5084.9	5080.4	5290.6	5985.1	6128.8	7211.2	8090.8
47.5°	6128.8	6014.7	5696.3	5666.7	5703.7	5804.5	6402.7	6956.5	6926.9	7963.3	8699.3
50°	6710.7	6624.8	6270.9	6327.2	6518.2	6682.6	7656.9	8015.2	7582.9	8555.7	9142.0
52.5°	7397.8	7239.3	6910.6	7063.1	7356.3	7630.2	8988.0	8942.2	8043.3	9001.4	9472.3
55°	7993.0	7880.4	7767.9	7926.3	8364.7	8706.7	10190.4	9636.6	8378.0	9359.7	9617.3
57.5°	8999.9	8973.2	8857.7	9019.1	9550.7	9906.1	11266.9	10175.6	8592.7	9546.3	9447.0
60°	10489.5	10446.6	10231.9	10437.7	11130.6	11688.9	12259.0	10659.8	8641.5	9473.7	8957.0
62.5°	12281.2	12134.6	11951.0	12254.5	13205.2	13451.0	13193.4	10947.0	8459.5	8896.3	7775.3
65°	13954.5	13803.4	13807.9	14447.5	15482.6	15649.8	14283.1	10904.2	7926.3	7449.6	5734.9
67.5°	15235.3	15210.1	15390.7	16639.0	17992.4	17876.9	15257.5	10261.5	6346.4	4828.7	3047.4
70°	15300.4	15349.3	15867.6	17974.6	19348.7	19165.1	15174.6	8341.0	3956.5	2221.1	1200.9
71°	14512.6	14841.4	15558.1	17933.1	19428.7	19190.3	14475.6	6986.1	2902.2	1548.9	866.2
72.5°	12367.1	12540.3	14089.2	16877.4	18796.4	18287.0	12703.2	4896.8	1858.4	947.6	497.5
75°	6811.3	7237.8	9435.3	13240.7	15033.9	14586.7	8278.8	2326.2	927.0	518.2	205.8
77.5°	3242.8	3159.9	4603.6	7874.5	10193.3	10169.7	4171.2	1033.6	540.4	350.9	103.6
80°	927.0	1042.4	1762.1	3743.3	5659.3	5721.6	1602.2	499.0	374.7	273.9	53.3
82.5°	279.9	285.8	647.1	1655.4	2814.9	2653.4	601.1	254.7	269.5	217.7	31.1
85°	48.9	60.7	191.0	583.4	1073.5	814.4	151.0	121.4	177.7	143.6	17.7
87.5°	2.9	4.5	63.7	66.6	94.8	54.7	26.7	17.7	38.5	38.5	10.3
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: P652034

CATALOG NUMBER: GALN-SA7A-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1
2.5°	3112.5	3121.4	3115.5	3102.1	3079.9	3053.3	3017.8	2988.2	2962.9	2949.6	2965.9
5°	3131.7	3143.6	3114.0	3047.4	2946.7	2837.1	2712.7	2616.4	2540.9	2517.3	2508.4
7.5°	3161.4	3168.8	3088.8	2940.7	2727.5	2468.4	2241.9	2050.8	1902.8	1858.4	1793.2
10°	3199.8	3195.5	3044.4	2769.0	2394.3	2004.9	1654.0	1393.4	1196.4	1125.3	1119.5
12.5°	3259.1	3235.4	2988.2	2535.0	1997.5	1488.1	1054.3	824.8	700.4	658.9	650.0
15°	3333.1	3276.9	2899.3	2261.1	1529.6	961.0	650.0	580.5	564.1	561.2	558.3
17.5°	3420.5	3331.6	2782.3	1925.0	1075.1	623.3	543.5	541.9	543.5	540.4	539.0
20°	3538.9	3389.4	2643.1	1526.7	710.7	525.6	518.2	518.2	519.7	518.2	518.2
22.5°	3664.8	3457.5	2471.4	1165.4	536.1	499.0	497.5	500.5	503.4	502.0	502.0
25°	3820.3	3546.3	2244.8	798.1	479.8	476.8	478.3	484.2	490.1	491.6	490.1
27.5°	4045.4	3655.9	2001.9	549.3	439.8	442.7	457.6	472.4	481.2	482.7	482.7
30°	4298.6	3777.4	1685.1	445.7	407.2	407.2	425.0	453.1	472.4	475.3	476.8
32.5°	4624.3	3918.1	1334.2	401.2	376.1	373.2	389.5	423.5	459.0	469.4	469.4
35°	5027.1	4083.9	992.1	373.2	353.9	346.5	355.4	383.5	429.4	459.0	462.0
37.5°	5499.5	4240.8	725.5	348.0	333.2	322.8	328.7	350.9	388.0	432.4	444.2
40°	5936.3	4380.0	541.9	327.2	312.4	305.0	309.5	319.8	350.9	392.4	399.8
42.5°	6413.0	4488.1	430.9	305.0	291.7	288.7	288.7	293.2	313.9	337.6	339.1
45°	6888.4	4526.6	361.3	278.4	269.5	272.5	271.0	268.0	276.9	273.9	273.9
47.5°	7227.5	4480.7	299.1	253.2	253.2	257.7	250.3	239.9	235.4	217.7	219.2
50°	7459.9	4313.4	245.8	223.6	235.4	241.4	226.6	210.2	193.9	174.8	170.3
52.5°	7556.2	4015.8	201.4	185.1	208.8	216.2	198.4	179.1	154.0	137.7	133.3
55°	7494.0	3648.5	167.4	151.0	176.2	185.1	167.4	145.1	117.0	99.2	96.2
57.5°	7220.1	3210.3	142.1	119.9	140.7	146.6	134.7	111.1	82.9	65.2	65.2
60°	6746.2	2757.1	115.5	94.8	105.1	114.0	102.2	80.0	56.3	39.9	37.0
62.5°	5785.2	2238.9	93.3	74.0	74.0	81.4	71.1	57.8	35.6	20.7	19.3
65°	4177.2	1535.5	74.0	54.7	53.3	53.3	44.4	38.5	20.7	8.9	5.9
67.5°	2269.9	866.2	59.2	41.5	37.0	35.6	28.2	22.2	8.9	1.5	0.0
70°	892.9	333.2	45.9	28.2	23.7	22.2	14.8	10.3	5.9	0.0	0.0
71°	605.6	229.5	39.9	23.7	19.3	16.3	11.9	8.9	4.5	0.0	0.0
72.5°	346.5	142.1	31.1	17.7	14.8	11.9	8.9	5.9	4.5	0.0	0.0
75°	151.0	72.6	19.3	13.3	10.3	7.4	5.9	4.5	1.5	0.0	0.0
77.5°	77.0	39.9	13.3	10.3	5.9	4.5	2.9	1.5	0.0	0.0	0.0
80°	43.0	20.7	8.9	5.9	4.5	2.9	1.5	1.5	0.0	0.0	0.0
82.5°	23.7	11.9	4.5	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	2.9	0.0	0.0	0.0	0.0	1.5	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)