

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: P192033

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18626 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 162
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: 25 FT

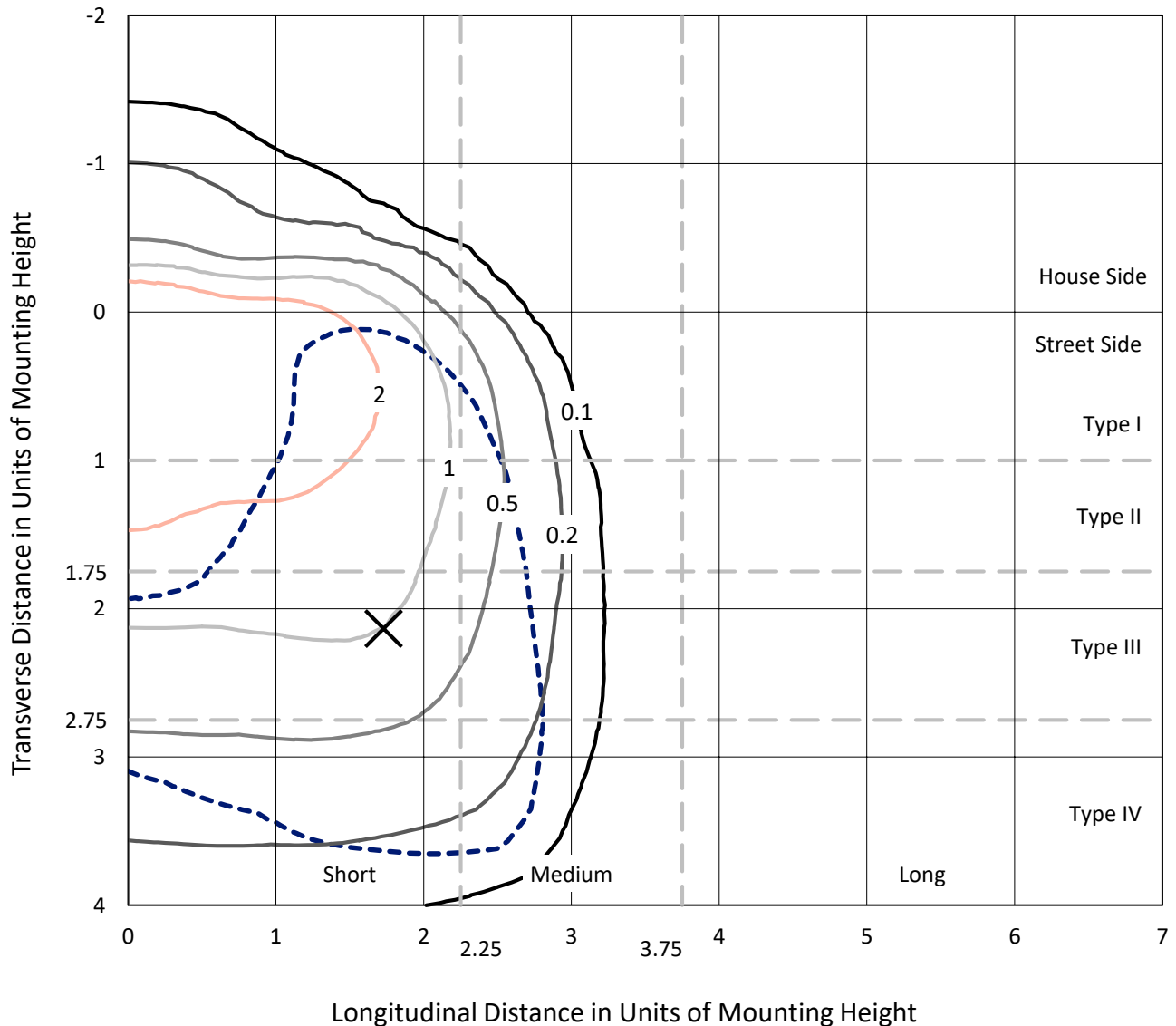


REPORT NUMBER: P192033

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

Iso-Footcandle Lines of Horizontal Illumination

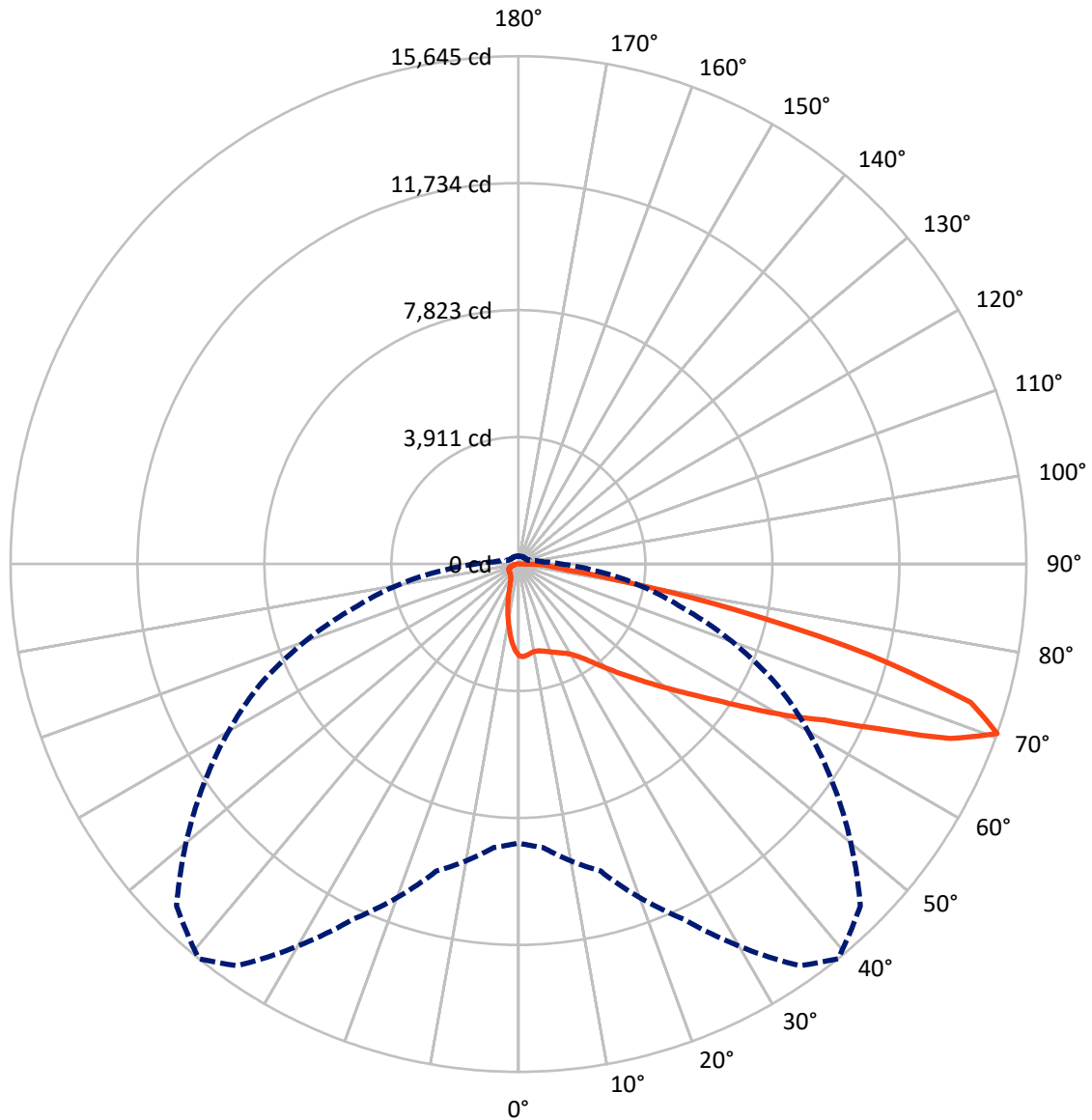
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192033
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192033

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

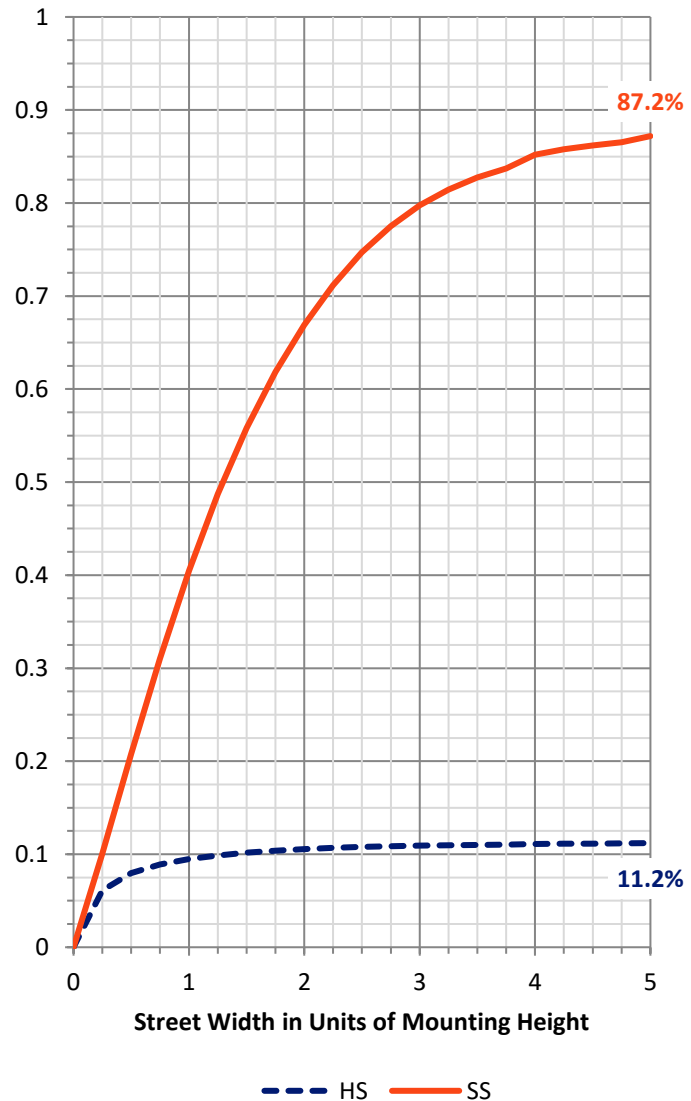
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2118.4	0.0	2118.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16507.6	0.0	16507.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	18626.0	0.0	18626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.3
10°-20°	606.6	3.3
20°-30°	944.5	5.1
30°-40°	1471.3	7.9
40°-50°	2470.1	13.3
50°-60°	3923.9	21.1
60°-70°	5234.1	28.1
70°-80°	3160.8	17.0
80°-90°	572.0	3.1
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°	18626.0	100.0
0°-180°	18626.0	100.0



REPORT NUMBER: P192033

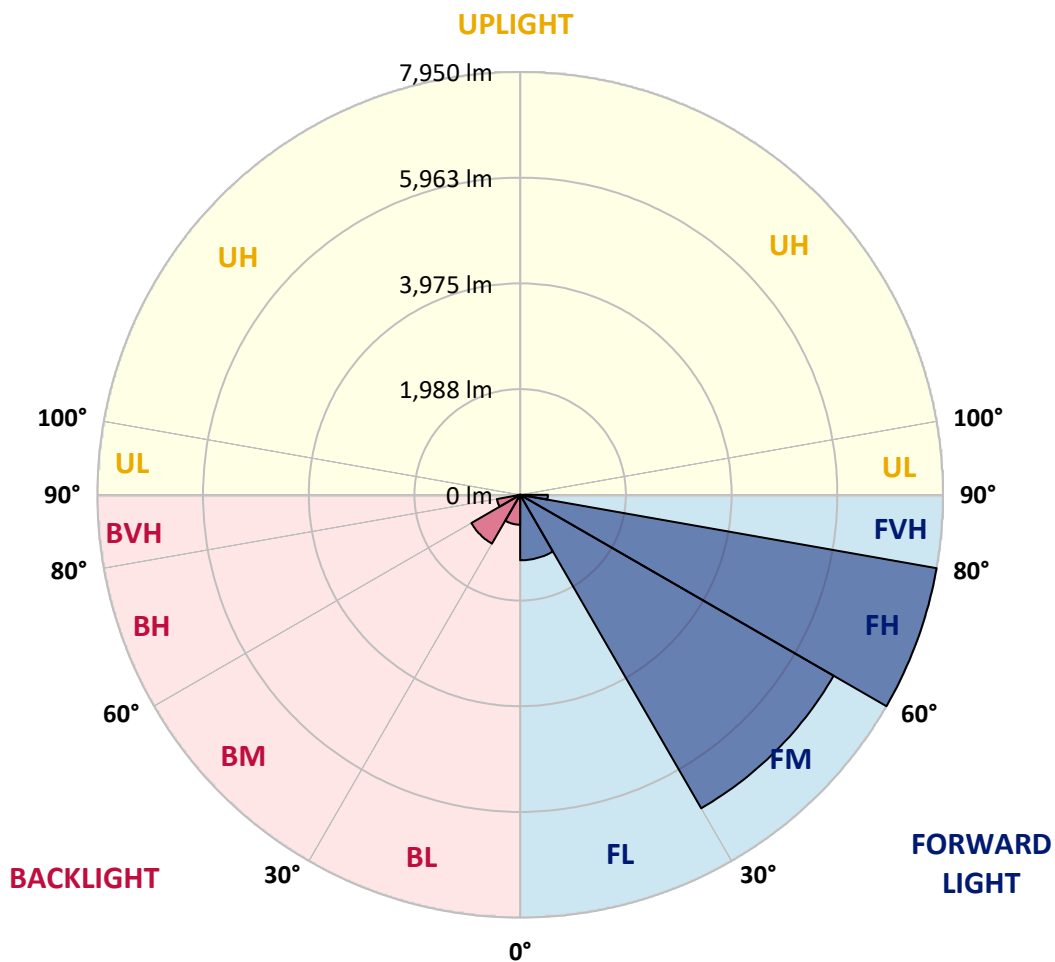
CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.8	6.6			
FM	(30°-60°)	6805.2	36.5			
FH	(60°-80°)	7950.1	42.7			G4/12000
FVH	(80°-90°)	520.5	2.8			G4/750
BL	(0°-30°)	562.0	3.0	B2/1000		
BM	(30°-60°)	1060.1	5.7	B2/2500		
BH	(60°-80°)	444.7	2.4	B1/500		G1/500
BVH	(80°-90°)	51.6	0.3			G1/100
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: P192033

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2882.6	2881.7	2874.1	2868.4	2863.7	2861.8	2865.6	2851.4	2839.1	2823.9	2807.8
5°	2860.9	2859.9	2847.6	2836.2	2824.9	2821.1	2820.1	2794.6	2779.4	2756.7	2726.4
7.5°	2837.2	2832.5	2816.4	2797.4	2777.5	2768.1	2758.6	2725.4	2708.4	2685.7	2650.6
10°	2812.6	2806.9	2791.7	2772.8	2753.9	2739.6	2723.5	2691.3	2673.4	2656.3	2615.6
12.5°	2787.0	2782.3	2778.5	2769.9	2756.7	2744.4	2732.1	2704.6	2685.7	2665.8	2618.4
15°	2783.2	2781.3	2789.8	2795.5	2787.9	2780.4	2767.1	2743.4	2723.5	2703.7	2642.1
17.5°	2813.5	2812.6	2834.3	2849.5	2845.7	2832.5	2814.5	2787.9	2771.8	2754.8	2678.1
20°	2879.8	2884.5	2911.1	2930.9	2912.0	2893.1	2863.7	2826.8	2818.2	2810.7	2715.0
22.5°	3004.8	3009.5	3028.5	3036.1	2986.8	2959.3	2918.6	2871.3	2865.6	2871.3	2759.5
25°	3199.9	3195.1	3192.3	3163.9	3073.9	3031.3	2979.2	2930.0	2932.8	2958.4	2822.0
27.5°	3458.4	3432.8	3393.1	3307.8	3164.8	3117.5	3054.0	3008.6	3026.6	3075.8	2915.8
30°	3726.4	3698.0	3606.1	3466.9	3284.2	3232.1	3161.1	3109.9	3157.3	3234.9	3040.8
32.5°	3974.5	3970.7	3836.3	3657.3	3448.9	3403.5	3332.5	3274.7	3351.4	3469.8	3228.3
35°	4245.4	4253.9	4092.9	3877.9	3671.5	3624.1	3573.0	3529.4	3631.7	3794.6	3500.1
37.5°	4535.1	4552.2	4361.8	4119.4	3925.3	3905.4	3875.1	3856.1	4014.3	4239.7	3879.8
40°	4922.5	4905.4	4641.2	4392.1	4236.8	4235.9	4226.4	4249.1	4512.4	4821.1	4367.5
42.5°	5337.2	5287.1	4937.6	4684.8	4578.7	4610.9	4629.8	4722.6	5111.9	5527.6	4962.2
45°	5784.2	5671.5	5245.4	4994.4	4958.4	5026.6	5091.0	5292.7	5817.4	6331.6	5613.8
47.5°	6141.2	6032.3	5563.6	5319.2	5397.8	5501.1	5625.1	5944.3	6607.2	7162.1	6256.8
50°	6422.5	6351.5	5884.6	5698.0	5881.8	6040.9	6243.5	6682.0	7429.1	7970.8	6852.4
52.5°	6695.2	6642.2	6208.5	6086.3	6450.0	6669.7	6945.2	7473.7	8272.0	8766.3	7353.4
55°	6941.4	6903.6	6557.0	6570.2	7118.5	7404.5	7751.1	8375.2	9190.5	9475.6	7777.6
57.5°	7218.9	7170.6	6954.7	7177.2	7977.5	8348.7	8799.4	9388.5	10052.3	10106.3	8100.6
60°	7498.3	7456.6	7396.0	7878.0	9068.4	9458.5	9885.6	10370.5	10926.4	10595.9	8081.6
62.5°	7740.7	7745.4	7852.5	8613.8	10136.6	10588.3	11109.2	11588.3	11717.1	10681.1	7484.1
65°	8151.7	8226.5	8545.6	9655.5	11640.4	12244.6	12883.8	12807.1	11935.9	9884.7	6202.8
67.5°	8640.3	8772.0	9418.8	11043.8	13541.0	14343.1	14590.3	13082.7	11059.9	8035.2	4421.5
70°	8591.1	8772.0	9795.7	12078.9	15107.3	15645.2	14895.2	11840.2	8782.4	5249.2	2348.5
72.5°	7629.0	7887.5	9027.7	11604.4	14614.0	14566.6	12931.2	8826.9	5217.9	2108.0	917.6
75°	5814.5	6075.9	7057.0	9167.8	11550.5	11152.7	9175.4	4876.1	1980.2	837.1	578.6
77.5°	3344.8	3547.4	4305.0	5622.3	7327.8	6919.7	5107.1	2168.6	964.0	583.3	451.7
80°	1867.5	1980.2	2440.4	2852.3	3591.0	3291.7	2285.1	1347.6	719.7	423.3	348.5
82.5°	1476.4	1576.7	1973.5	1799.3	1640.2	1513.3	1312.5	1199.8	574.8	267.1	208.3
85°	1289.8	1385.4	1670.5	1416.7	1120.3	1027.5	1066.3	1180.9	447.0	161.0	178.0
87.5°	1195.1	1322.9	1488.7	1091.9	872.2	772.7	983.9	1294.5	143.9	100.4	72.0
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: P192033

CATALOG NUMBER: GLEON-AF-05-LED-E1-SL4-7050-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7	2827.7
2.5°	2793.6	2778.5	2753.9	2732.1	2698.0	2680.0	2660.1	2645.9	2634.5	2625.1	2640.2
5°	2707.4	2679.0	2627.0	2571.1	2504.8	2452.7	2409.1	2368.4	2340.0	2321.1	2334.3
7.5°	2626.0	2579.6	2498.2	2396.8	2283.2	2186.6	2107.1	2037.0	1988.7	1957.4	1969.7
10°	2579.6	2521.8	2395.9	2236.8	2069.2	1918.6	1793.6	1685.6	1610.8	1568.2	1574.8
12.5°	2568.2	2493.4	2319.2	2100.4	1871.3	1662.0	1485.8	1336.2	1231.1	1176.2	1178.1
15°	2576.8	2481.1	2247.2	1969.7	1680.0	1415.8	1196.0	1014.2	892.1	829.6	828.6
17.5°	2591.0	2471.6	2171.5	1828.6	1485.8	1179.0	933.7	755.7	647.7	597.6	593.8
20°	2606.1	2456.5	2086.2	1676.2	1284.1	959.3	731.1	591.9	523.7	496.2	494.3
22.5°	2627.9	2443.2	1998.2	1515.2	1086.2	781.3	601.3	507.6	471.6	457.4	455.5
25°	2662.9	2436.6	1904.4	1347.6	908.2	653.4	523.7	465.9	445.1	435.6	434.7
27.5°	2721.7	2446.1	1816.3	1184.7	763.3	567.2	480.1	445.1	429.9	421.4	420.5
30°	2797.4	2475.4	1723.5	1030.3	650.6	508.5	453.6	430.9	418.6	410.0	410.0
32.5°	2923.4	2524.7	1626.0	896.8	570.1	467.8	433.7	418.6	408.2	401.5	400.6
35°	3109.0	2617.5	1535.1	786.0	512.3	438.5	416.7	405.3	397.7	393.9	393.9
37.5°	3378.9	2764.3	1454.6	706.5	477.3	418.6	400.6	392.1	387.3	387.3	387.3
40°	3741.6	2966.9	1389.2	653.4	457.4	404.4	388.3	381.6	378.8	379.7	379.7
42.5°	4189.5	3230.2	1345.7	616.5	447.9	395.8	379.7	374.1	371.2	370.3	371.2
45°	4699.9	3529.4	1340.9	589.0	438.5	390.2	374.1	368.4	362.7	358.9	358.9
47.5°	5196.1	3833.4	1379.8	579.6	428.0	383.5	369.3	363.6	355.1	346.6	346.6
50°	5634.6	4091.9	1431.9	583.3	424.3	374.1	361.8	358.9	345.7	336.2	335.2
52.5°	5983.1	4290.8	1474.5	594.7	428.0	367.4	352.3	353.2	339.0	328.6	327.7
55°	6262.5	4421.5	1463.1	606.1	436.6	363.6	343.8	345.7	334.3	323.9	323.9
57.5°	6384.6	4373.2	1337.2	596.6	443.2	364.6	337.1	344.7	335.2	325.8	325.8
60°	6122.3	3944.2	1101.4	554.9	434.7	361.8	334.3	348.5	347.5	338.1	337.1
62.5°	5328.7	3176.2	854.2	493.4	405.3	347.5	326.7	347.5	358.0	355.1	354.2
65°	4107.1	2262.4	652.5	427.1	365.5	323.9	306.8	325.8	340.0	343.8	342.8
67.5°	2665.8	1386.4	502.9	364.6	321.0	296.4	281.3	289.8	292.6	292.6	290.7
70°	1310.6	746.2	400.6	306.8	275.6	267.1	258.5	253.8	249.1	245.3	245.3
72.5°	646.8	487.7	329.6	259.5	237.7	233.9	232.0	226.3	222.5	217.8	215.9
75°	478.2	396.8	280.3	218.8	204.6	200.8	204.6	199.8	198.9	195.1	193.2
77.5°	393.0	338.1	241.5	187.5	175.2	168.6	174.2	175.2	176.1	170.5	168.6
80°	319.1	286.0	201.7	155.3	143.9	139.2	143.0	150.6	152.5	143.9	140.2
82.5°	230.1	233.9	162.9	121.2	111.7	108.0	115.5	125.0	126.9	114.6	111.7
85°	193.2	195.1	125.0	86.2	76.7	71.0	83.3	92.8	99.4	87.1	84.3
87.5°	80.5	114.6	72.0	48.3	42.6	36.9	44.5	49.2	59.7	54.9	54.0
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)