

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: P193784

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193784
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-06-LED-E1-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 22303 lumens
Efficiency: N/A
Efficacy: 89.6 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

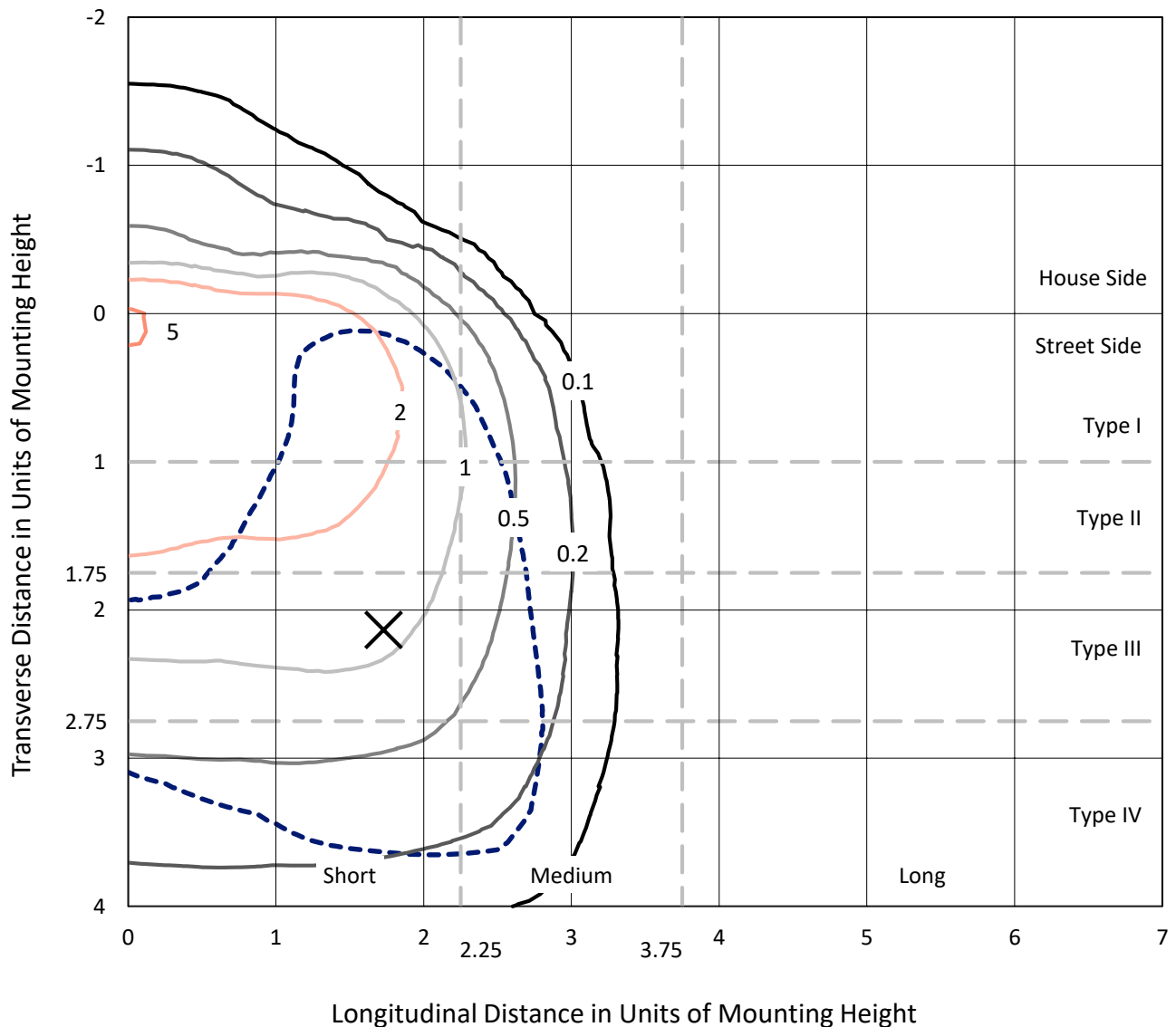
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193784
 CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

Iso-Footcandle Lines of Horizontal Illumination

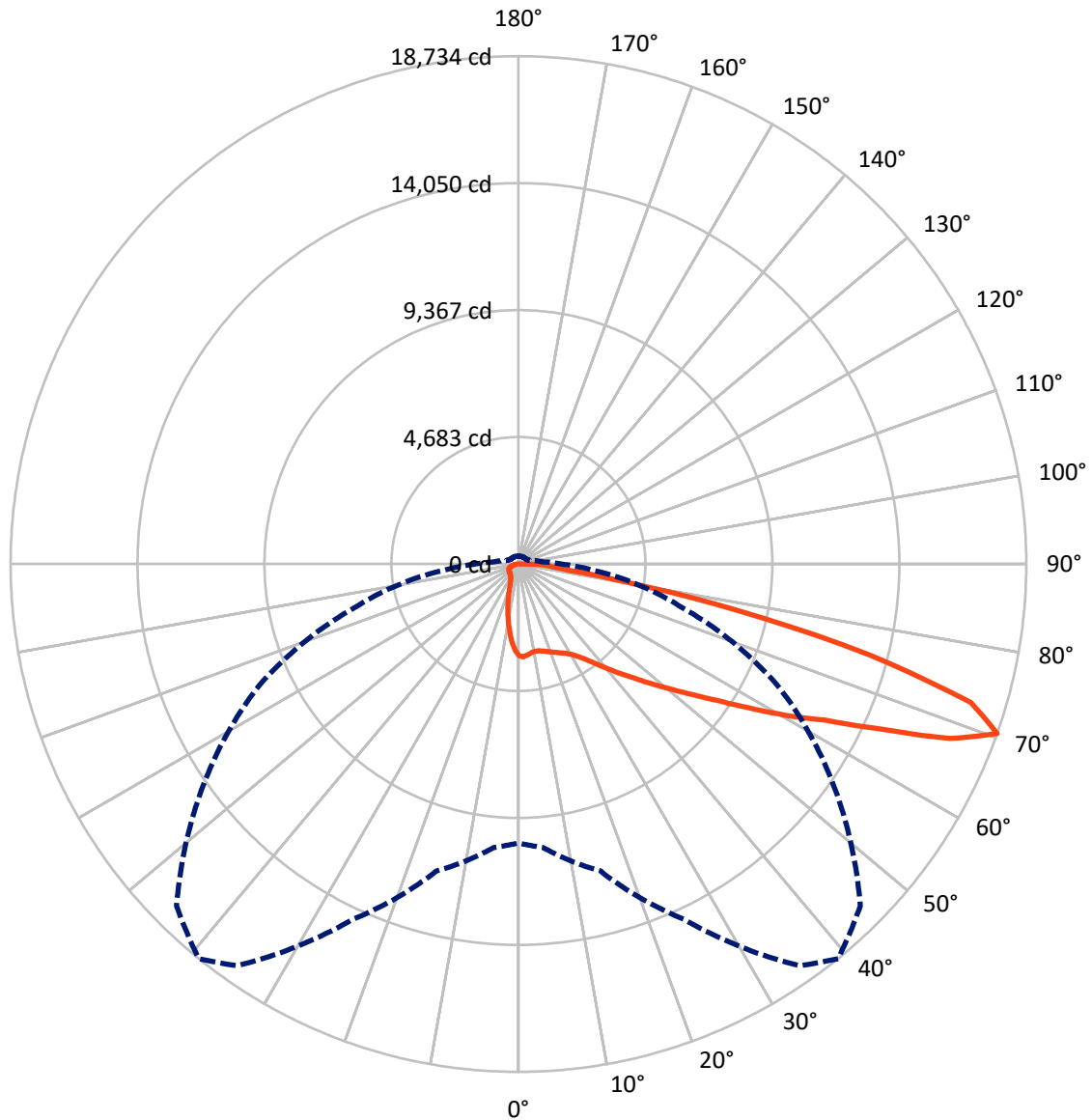
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193784
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193784

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

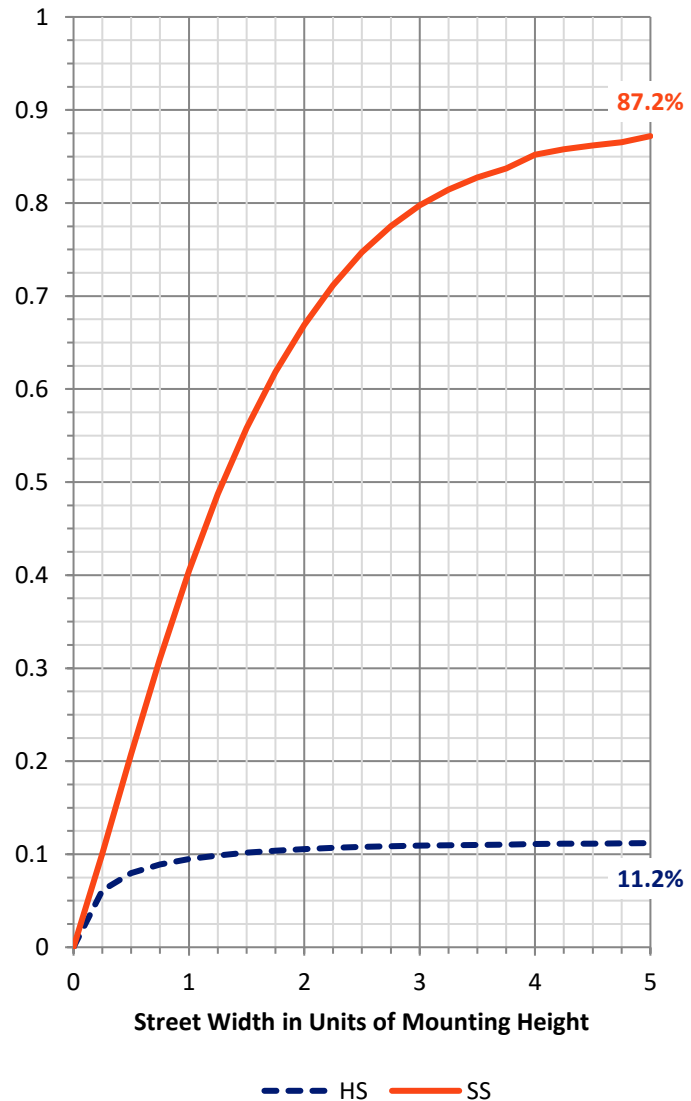
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.6	0.0	2536.6
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19766.4	0.0	19766.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	22303.0	0.0	22303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.3
10°-20°	726.3	3.3
20°-30°	1130.9	5.1
30°-40°	1761.8	7.9
40°-50°	2957.7	13.3
50°-60°	4698.6	21.1
60°-70°	6267.4	28.1
70°-80°	3784.7	17.0
80°-90°	685.0	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°	22303.0	100.0
0°-180°	22303.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193784

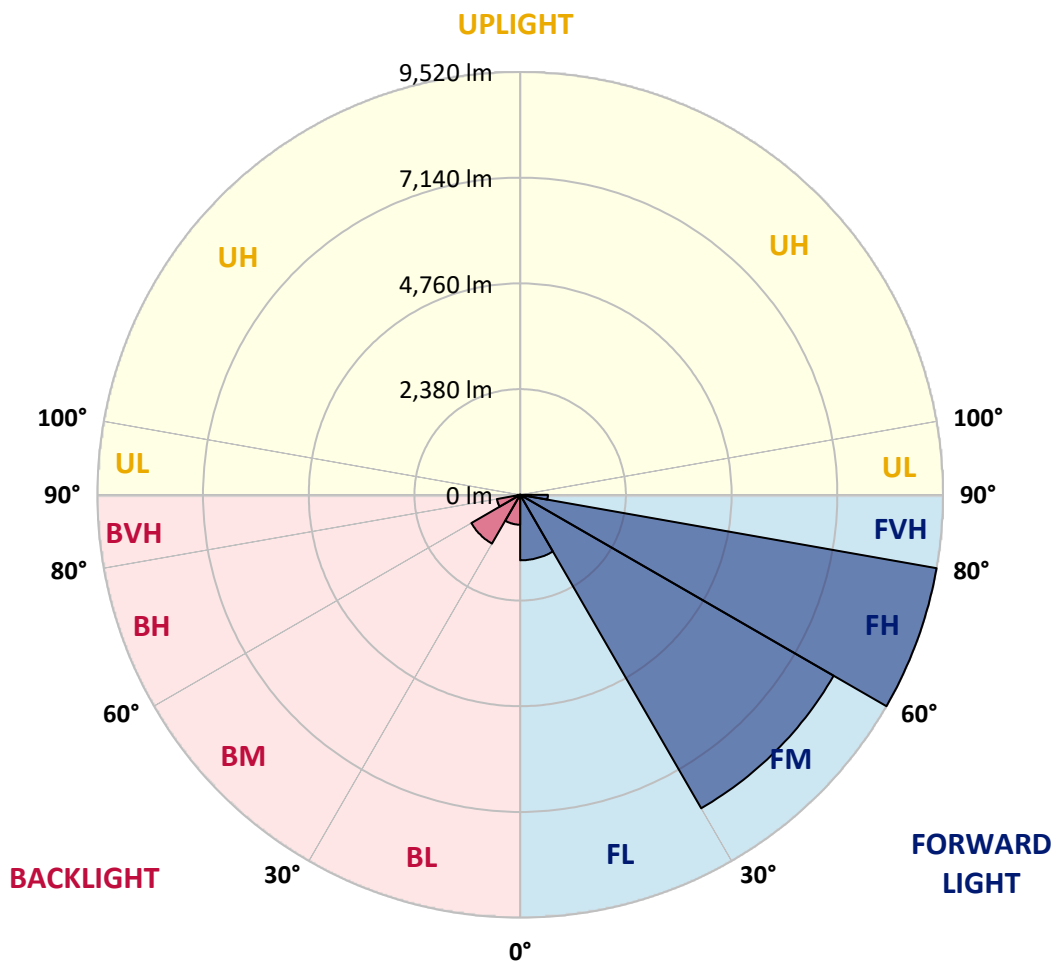
CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.9	6.6			
FM (30°-60°)	8148.7	36.5			
FH (60°-80°)	9519.6	42.7			G4/12000
FVH (80°-90°)	623.2	2.8			G4/750
BL (0°-30°)	672.9	3.0	B2/1000		
BM (30°-60°)	1269.4	5.7	B2/2500		
BH (60°-80°)	532.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	61.7	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: P193784

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9
2.5°	3451.7	3450.6	3441.5	3434.7	3429.0	3426.8	3431.3	3414.3	3399.5	3381.4	3362.1
5°	3425.6	3424.5	3409.8	3396.1	3382.5	3378.0	3376.9	3346.3	3328.1	3300.9	3264.6
7.5°	3397.3	3391.6	3372.3	3349.7	3325.8	3314.5	3303.2	3263.5	3243.1	3215.9	3173.9
10°	3367.8	3361.0	3342.9	3320.2	3297.5	3280.5	3261.2	3222.7	3201.1	3180.7	3131.9
12.5°	3337.2	3331.5	3327.0	3316.8	3300.9	3286.2	3271.4	3238.5	3215.9	3192.0	3135.3
15°	3332.6	3330.4	3340.6	3347.4	3338.3	3329.2	3313.4	3285.0	3261.2	3237.4	3163.7
17.5°	3368.9	3367.8	3393.9	3412.0	3407.5	3391.6	3370.1	3338.3	3319.0	3298.6	3206.8
20°	3448.3	3454.0	3485.7	3509.5	3486.9	3464.2	3429.0	3384.8	3374.6	3365.5	3251.0
22.5°	3598.0	3603.7	3626.3	3635.4	3576.4	3543.6	3494.8	3438.1	3431.3	3438.1	3304.3
25°	3831.6	3825.9	3822.5	3788.5	3680.8	3629.7	3567.4	3508.4	3511.8	3542.4	3379.1
27.5°	4141.1	4110.5	4062.9	3960.8	3789.6	3732.9	3657.0	3602.5	3624.1	3683.0	3491.4
30°	4462.0	4428.0	4318.0	4151.3	3932.5	3870.1	3785.1	3723.9	3780.6	3873.5	3641.1
32.5°	4759.1	4754.6	4593.6	4379.3	4129.8	4075.4	3990.3	3921.2	4013.0	4154.8	3865.6
35°	5083.4	5093.7	4900.9	4643.5	4396.3	4339.6	4278.4	4226.2	4348.7	4543.7	4191.0
37.5°	5430.4	5450.8	5222.9	4932.6	4700.2	4676.4	4640.1	4617.4	4806.8	5076.6	4645.7
40°	5894.2	5873.8	5557.4	5259.2	5073.2	5072.1	5060.8	5088.0	5403.2	5772.9	5229.7
42.5°	6390.9	6330.8	5912.4	5609.6	5482.6	5521.1	5543.8	5655.0	6121.0	6618.8	5941.8
45°	6926.1	6791.2	6280.9	5980.4	5937.3	6018.9	6096.1	6337.6	6965.8	7581.5	6722.0
47.5°	7353.6	7223.2	6661.9	6369.3	6463.5	6587.1	6735.6	7117.7	7911.5	8576.0	7491.9
50°	7690.4	7605.3	7046.3	6822.9	7042.9	7233.4	7476.1	8001.1	8895.7	9544.4	8205.2
52.5°	8016.9	7953.4	7434.1	7287.8	7723.3	7986.3	8316.3	8949.0	9905.0	10496.9	8805.0
55°	8311.8	8266.4	7851.4	7867.3	8523.8	8866.3	9281.3	10028.6	11004.9	11346.2	9313.0
57.5°	8644.0	8586.2	8327.6	8594.1	9552.3	9996.8	10536.6	11241.9	12036.8	12101.4	9699.7
60°	8978.5	8928.6	8856.1	9433.2	10858.6	11325.8	11837.2	12417.8	13083.4	12687.6	9677.0
62.5°	9268.8	9274.5	9402.6	10314.3	12137.7	12678.6	13302.2	13876.0	14030.2	12789.7	8961.5
65°	9760.9	9850.5	10232.7	11561.6	13938.4	14661.8	15427.2	15335.4	14292.2	11836.1	7427.3
67.5°	10346.1	10503.7	11278.2	13224.0	16214.2	17174.6	17470.6	15665.4	13243.3	9621.5	5294.4
70°	10287.1	10503.7	11729.5	14463.4	18089.7	18733.8	17835.7	14177.6	10516.1	6285.4	2812.2
72.5°	9135.0	9444.6	10809.8	13895.3	17498.9	17442.2	15483.9	10569.4	6248.0	2524.1	1098.8
75°	6962.4	7275.4	8450.1	10977.7	13830.7	13354.4	10986.7	5838.7	2371.1	1002.4	692.8
77.5°	4005.1	4247.7	5154.9	6732.2	8774.4	8285.7	6115.3	2596.7	1154.3	698.5	540.9
80°	2236.1	2371.1	2922.2	3415.4	4299.9	3941.6	2736.2	1613.6	861.8	506.9	417.3
82.5°	1767.8	1888.0	2363.1	2154.5	1964.0	1812.0	1571.6	1436.7	688.3	319.8	249.5
85°	1544.4	1659.0	2000.3	1696.4	1341.4	1230.3	1276.8	1414.0	535.2	192.8	213.2
87.5°	1431.0	1584.1	1782.6	1307.4	1044.4	925.3	1178.2	1550.1	172.4	120.2	86.2
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: P193784

CATALOG NUMBER: GLEON-AF-06-LED-E1-SL4-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9	3385.9
2.5°	3345.1	3327.0	3297.5	3271.4	3230.6	3209.0	3185.2	3168.2	3154.6	3143.3	3161.4
5°	3241.9	3207.9	3145.5	3078.6	2999.3	2936.9	2884.7	2836.0	2802.0	2779.3	2795.2
7.5°	3144.4	3088.8	2991.3	2870.0	2733.9	2618.3	2523.0	2439.1	2381.3	2343.9	2358.6
10°	3088.8	3019.7	2868.9	2678.4	2477.7	2297.4	2147.7	2018.4	1928.8	1877.8	1885.7
12.5°	3075.2	2985.7	2777.0	2515.1	2240.7	1990.1	1779.1	1600.0	1474.1	1408.4	1410.6
15°	3085.4	2970.9	2690.8	2358.6	2011.6	1695.2	1432.2	1214.4	1068.2	993.3	992.2
17.5°	3102.5	2959.6	2600.1	2189.6	1779.1	1411.8	1118.1	904.9	775.6	715.5	711.0
20°	3120.6	2941.4	2498.1	2007.1	1537.6	1148.7	875.4	708.7	627.1	594.2	591.9
22.5°	3146.7	2925.6	2392.6	1814.3	1300.6	935.5	720.1	607.8	564.7	547.7	545.4
25°	3188.6	2917.6	2280.4	1613.6	1087.4	782.4	627.1	557.9	533.0	521.6	520.5
27.5°	3258.9	2929.0	2174.9	1418.6	914.0	679.2	574.9	533.0	514.8	504.6	503.5
30°	3349.7	2964.1	2063.8	1233.7	779.0	608.9	543.2	515.9	501.2	491.0	491.0
32.5°	3500.5	3023.1	1947.0	1073.8	682.6	560.2	519.3	501.2	488.7	480.8	479.7
35°	3722.7	3134.2	1838.1	941.2	613.5	525.0	498.9	485.3	476.3	471.7	471.7
37.5°	4045.9	3310.0	1741.7	845.9	571.5	501.2	479.7	469.5	463.8	463.8	463.8
40°	4480.2	3552.6	1663.5	782.4	547.7	484.2	464.9	457.0	453.6	454.7	454.7
42.5°	5016.5	3867.9	1611.3	738.2	536.4	474.0	454.7	447.9	444.5	443.4	444.5
45°	5627.7	4226.2	1605.7	705.3	525.0	467.2	447.9	441.1	434.3	429.8	429.8
47.5°	6221.9	4590.2	1652.1	694.0	512.5	459.2	442.2	435.4	425.2	415.0	415.0
50°	6746.9	4899.7	1714.5	698.5	508.0	447.9	433.2	429.8	413.9	402.5	401.4
52.5°	7164.2	5137.9	1765.5	712.1	512.5	440.0	421.8	423.0	406.0	393.5	392.3
55°	7498.7	5294.4	1751.9	725.7	522.7	435.4	411.6	413.9	400.3	387.8	387.8
57.5°	7645.0	5236.5	1601.1	714.4	530.7	436.6	403.7	412.8	401.4	390.1	390.1
60°	7330.9	4722.9	1318.8	664.5	520.5	433.2	400.3	417.3	416.2	404.8	403.7
62.5°	6380.7	3803.2	1022.8	590.8	485.3	416.2	391.2	416.2	428.6	425.2	424.1
65°	4917.9	2709.0	781.3	511.4	437.7	387.8	367.4	390.1	407.1	411.6	410.5
67.5°	3192.0	1660.1	602.1	436.6	384.4	354.9	336.8	347.0	350.4	350.4	348.1
70°	1569.4	893.5	479.7	367.4	330.0	319.8	309.6	303.9	298.2	293.7	293.7
72.5°	774.5	584.0	394.6	310.7	284.6	280.1	277.8	271.0	266.5	260.8	258.5
75°	572.6	475.1	335.6	261.9	244.9	240.4	244.9	239.3	238.1	233.6	231.3
77.5°	470.6	404.8	289.2	224.5	209.8	201.8	208.6	209.8	210.9	204.1	201.8
80°	382.1	342.4	241.5	186.0	172.4	166.7	171.2	180.3	182.6	172.4	167.8
82.5°	275.5	280.1	195.0	145.1	133.8	129.3	138.3	149.7	151.9	137.2	133.8
85°	231.3	233.6	149.7	103.2	91.8	85.0	99.8	111.1	119.1	104.3	100.9
87.5°	96.4	137.2	86.2	57.8	51.0	44.2	53.3	59.0	71.4	65.8	64.6
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)