

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: P383001

Luminaire Tested: **GLEON-SA3C-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 19114.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

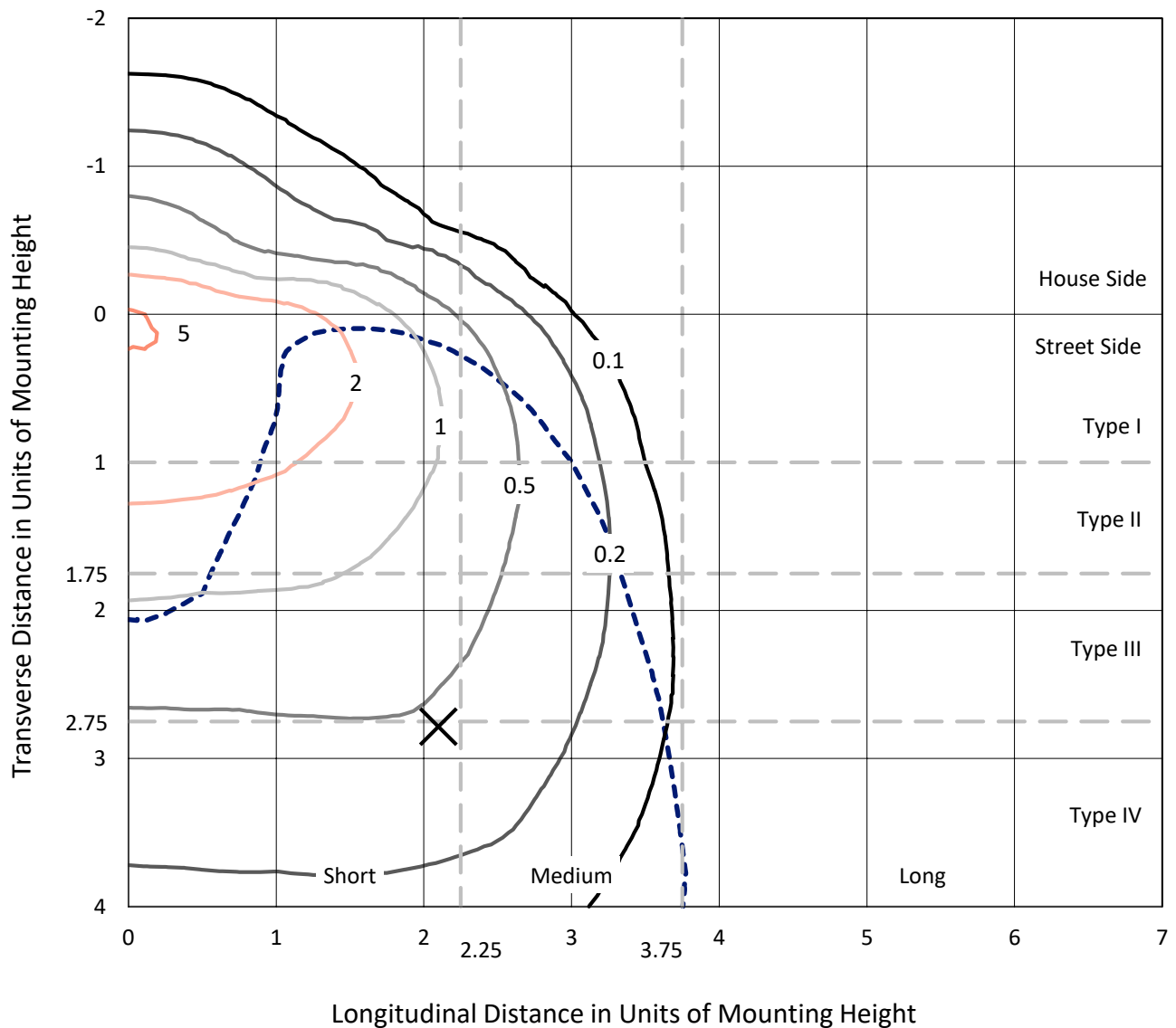
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383001
 CATALOG NUMBER: GLEON-SA3C-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

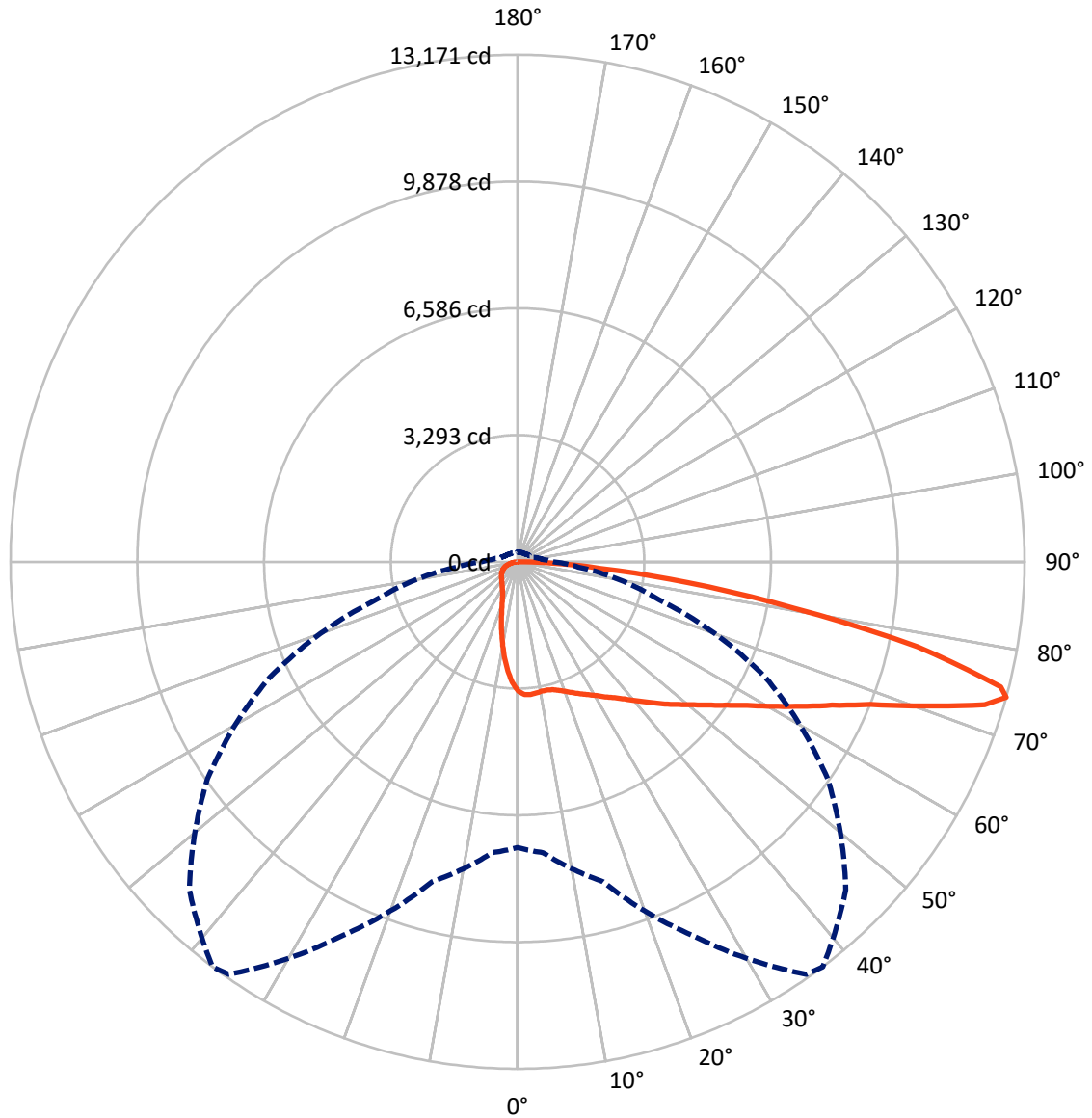
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P383001
CATALOG NUMBER: GLEON-SA3C-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P383001
 CATALOG NUMBER: GLEON-SA3C-735-U-SL4

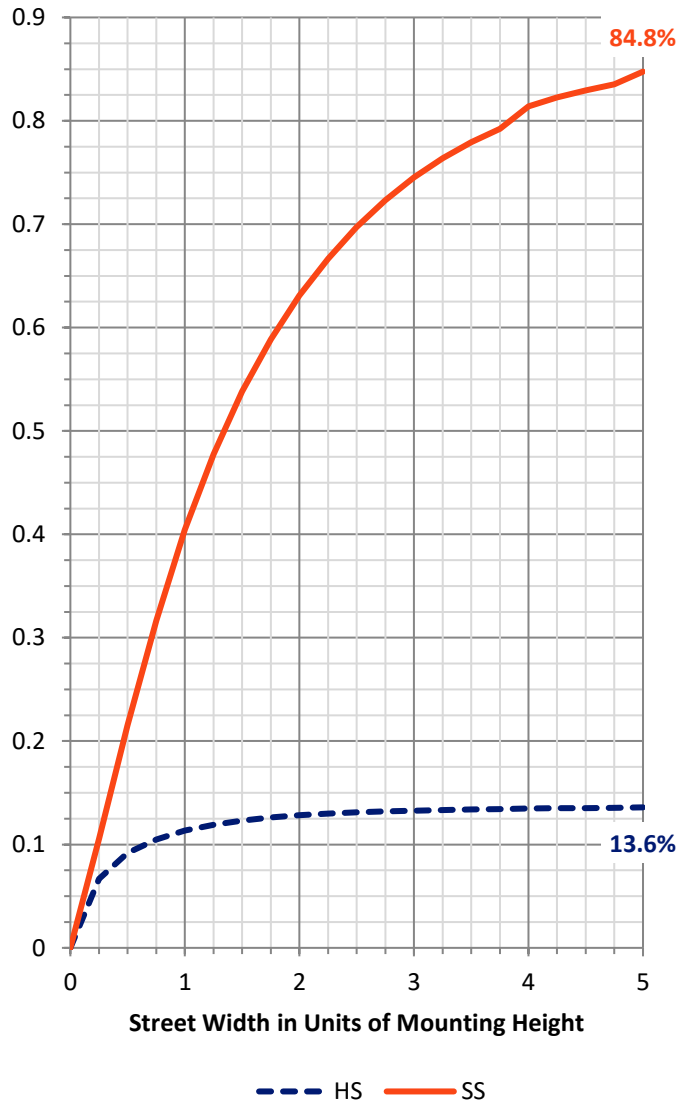
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2630.0	0.0	2630.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	16484.4	0.0	16484.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	19114.4	0.0	19114.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.6
10°-20°	760.2	4.0
20°-30°	1171.3	6.1
30°-40°	1703.3	8.9
40°-50°	2507.0	13.1
50°-60°	3520.6	18.4
60°-70°	4456.0	23.3
70°-80°	3923.7	20.5
80°-90°	775.8	4.1
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°	19114.4	100.0
0°-180°	19114.4	100.0

Coefficient of Utilization



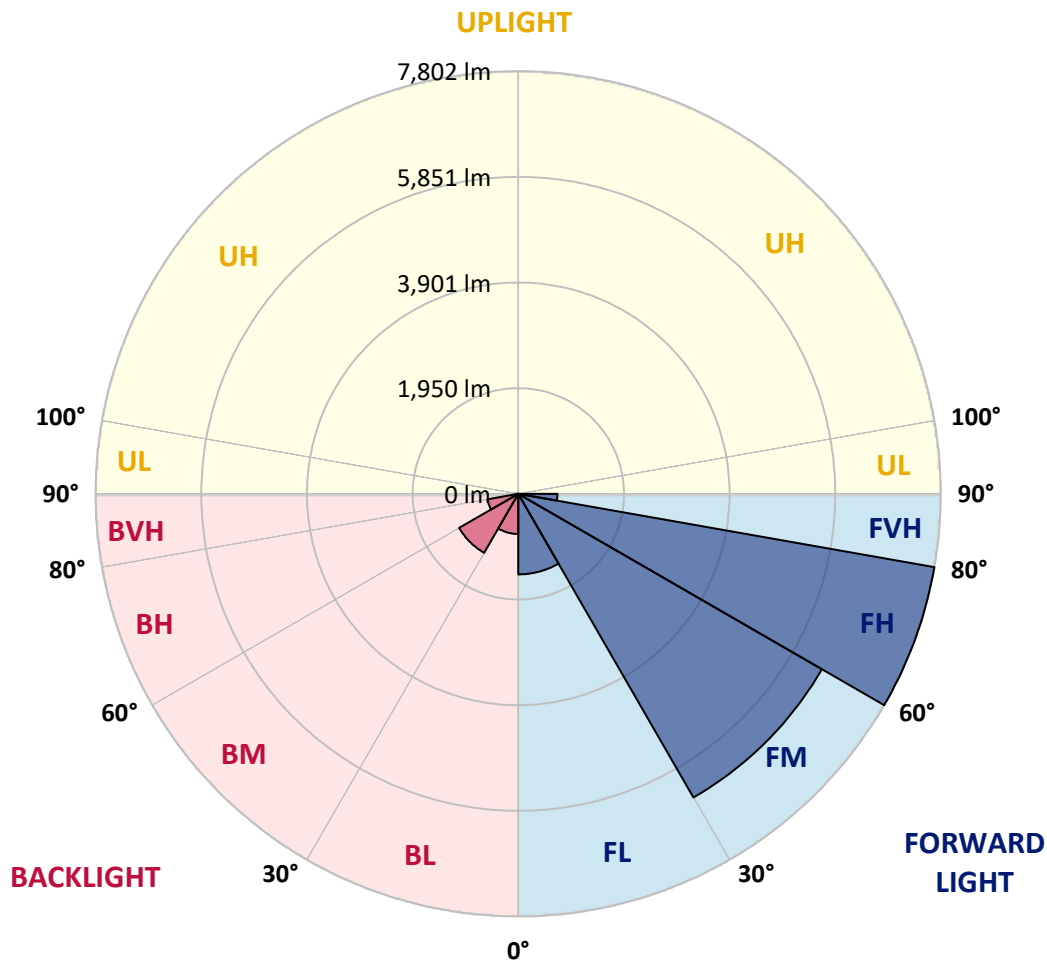
REPORT NUMBER: P383001
 CATALOG NUMBER: GLEON-SA3C-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.3	7.8			
FM (30°-60°)	6472.3	33.9			
FH (60°-80°)	7801.5	40.8			G4/12000
FVH (80°-90°)	723.3	3.8			G4/750
BL (0°-30°)	740.8	3.9	B2/1000		
BM (30°-60°)	1258.6	6.6	B2/2500		
BH (60°-80°)	578.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	52.5	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: P383001
 CATALOG NUMBER: GLEON-SA3C-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3483.1	3483.7	3483.1	3477.7	3464.8	3454.1	3445.3	3432.6	3404.2	3382.7	3350.4
5°	3516.0	3511.9	3509.3	3499.2	3479.0	3466.8	3450.0	3425.8	3379.4	3336.2	3283.7
7.5°	3500.6	3495.8	3489.8	3477.7	3454.7	3444.7	3421.1	3389.4	3333.5	3277.0	3201.5
10°	3452.7	3451.4	3448.7	3446.0	3426.5	3418.4	3396.8	3363.2	3307.9	3239.3	3151.1
12.5°	3399.5	3402.9	3413.7	3427.8	3419.1	3415.1	3401.5	3378.6	3322.1	3248.0	3141.6
15°	3365.9	3375.3	3404.2	3441.3	3448.7	3447.4	3443.9	3429.1	3369.2	3287.1	3163.2
17.5°	3354.4	3369.9	3425.1	3486.4	3507.9	3512.7	3514.0	3488.4	3421.8	3334.9	3185.4
20°	3375.3	3394.8	3475.6	3559.8	3594.1	3596.8	3590.7	3546.3	3471.6	3375.9	3197.5
22.5°	3438.6	3456.1	3557.1	3652.0	3691.1	3695.1	3676.9	3609.6	3524.1	3424.5	3214.4
25°	3560.5	3582.0	3683.0	3777.9	3798.1	3798.9	3772.6	3689.0	3592.8	3492.5	3250.7
27.5°	3719.4	3740.9	3831.8	3924.7	3913.9	3907.8	3872.2	3788.7	3682.3	3586.1	3315.4
30°	3896.5	3920.0	4006.2	4072.2	4046.5	4034.4	4005.5	3897.8	3806.9	3714.0	3414.3
32.5°	4079.6	4101.1	4176.5	4221.7	4189.4	4184.0	4140.2	4041.9	3969.1	3909.2	3574.6
35°	4267.4	4282.9	4356.9	4382.6	4339.4	4338.1	4326.0	4235.7	4190.0	4218.2	3807.5
37.5°	4459.3	4463.3	4526.7	4528.0	4515.2	4520.6	4533.4	4476.8	4489.6	4577.8	4110.5
40°	4630.4	4641.2	4686.9	4701.1	4723.2	4742.1	4806.0	4769.1	4868.0	5024.2	4487.6
42.5°	4756.9	4777.8	4851.2	4887.6	4959.6	4989.2	5079.4	5113.7	5313.1	5547.4	4936.0
45°	4864.0	4896.3	5014.1	5088.9	5210.7	5262.6	5391.9	5507.0	5816.0	6115.0	5408.0
47.5°	4979.8	5020.9	5168.3	5311.0	5476.7	5535.3	5770.3	5942.6	6352.7	6686.0	5853.1
50°	5150.2	5181.7	5325.8	5550.1	5756.8	5832.2	6157.4	6404.5	6898.0	7230.0	6238.9
52.5°	5387.8	5375.7	5497.5	5812.0	6089.4	6182.3	6570.9	6896.1	7450.8	7722.2	6564.7
55°	5626.8	5606.6	5692.1	6086.0	6477.2	6574.9	7026.0	7389.6	7976.7	8165.2	6814.6
57.5°	5892.8	5854.4	5926.4	6395.1	6918.9	7035.4	7535.7	7914.1	8493.8	8523.4	6973.5
60°	6166.8	6115.0	6195.8	6778.2	7479.8	7617.2	8132.2	8425.8	8981.2	8810.2	7024.6
62.5°	6406.5	6370.2	6494.7	7205.7	8112.0	8262.8	8718.0	8969.8	9462.0	8929.4	6840.2
65°	6615.9	6622.0	6837.5	7686.5	8817.0	8977.9	9390.0	9640.4	9840.4	8858.7	6408.6
67.5°	6865.7	6900.1	7267.7	8319.4	9704.4	9880.8	10367.6	10371.7	10051.9	8443.9	5558.8
70°	7230.0	7300.7	7859.6	9197.4	10966.2	11208.6	11584.3	10801.2	9754.9	7319.5	4373.8
72.5°	7553.2	7685.2	8489.1	10201.9	12504.0	12687.9	12296.0	10553.4	8514.0	5485.4	2724.9
74°	7421.9	7585.5	8603.5	10696.9	13083.0	13171.2	12055.6	9830.3	7098.7	3798.9	1583.6
75°	7139.1	7316.8	8436.6	10692.1	13009.6	12960.5	11475.2	9004.2	5846.3	2590.9	1053.8
77.5°	5761.5	5949.3	7108.8	9163.7	10667.2	10620.8	8815.0	6040.2	2560.5	849.8	535.3
80°	3349.8	3493.1	4412.8	5819.4	7192.9	7277.2	5797.2	2988.8	1007.3	477.4	362.9
82.5°	1488.1	1587.0	2131.7	2970.6	4340.8	4449.3	3035.9	1566.1	622.2	290.2	218.2
85°	976.3	1049.7	1294.1	1414.6	2067.0	2141.2	1486.0	1219.4	410.7	159.6	160.2
87.5°	702.3	773.0	961.5	839.6	948.7	898.2	808.7	1128.5	165.0	90.9	53.8
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: P383001
 CATALOG NUMBER: GLEON-SA3C-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3336.2	3325.4	3301.2	3255.5	3229.9	3208.3	3172.7	3151.8	3142.3	3141.6	3145.6
5°	3253.4	3228.6	3165.9	3089.1	3027.9	2972.0	2902.6	2860.9	2831.3	2813.7	2818.5
7.5°	3157.1	3118.1	3019.8	2897.2	2798.9	2690.5	2583.5	2519.6	2469.7	2432.6	2439.4
10°	3091.2	3037.3	2893.9	2717.5	2553.8	2396.3	2248.8	2160.6	2090.6	2036.7	2040.8
12.5°	3069.0	2996.2	2797.6	2561.9	2332.3	2116.8	1924.3	1788.9	1716.9	1655.6	1660.4
15°	3072.3	2974.7	2716.8	2421.9	2133.1	1861.7	1628.1	1469.8	1372.2	1329.8	1330.4
17.5°	3075.0	2949.7	2632.0	2271.8	1935.8	1623.3	1369.5	1209.2	1117.0	1078.0	1078.6
20°	3066.3	2909.4	2526.9	2099.3	1729.7	1404.5	1158.8	1022.7	952.7	922.4	922.4
22.5°	3054.8	2861.5	2408.4	1926.3	1526.4	1214.6	1007.9	904.3	863.8	843.6	843.0
25°	3060.2	2825.8	2287.2	1748.6	1339.2	1063.2	907.6	839.0	812.0	799.2	798.5
27.5°	3089.1	2809.1	2175.4	1571.5	1175.6	949.3	840.3	791.8	774.3	766.2	766.2
30°	3141.6	2809.1	2059.0	1420.7	1039.6	865.2	788.5	755.5	743.4	738.0	738.0
32.5°	3233.2	2824.5	1946.6	1271.2	931.2	799.2	745.3	723.2	713.8	711.1	711.1
35°	3390.7	2877.1	1836.8	1129.8	843.6	745.3	704.2	691.5	684.8	684.0	686.1
37.5°	3612.3	2984.1	1733.8	1025.4	781.8	701.5	670.0	659.8	655.8	659.2	661.9
40°	3891.1	3129.5	1640.2	931.2	734.6	666.6	638.3	631.6	629.5	634.3	638.3
42.5°	4227.7	3326.2	1563.4	863.2	698.2	637.0	611.4	603.3	601.2	606.6	612.0
45°	4592.0	3537.6	1509.6	812.7	670.0	614.7	587.8	579.0	575.0	577.7	583.8
47.5°	4923.2	3737.6	1488.1	777.0	643.0	595.9	566.9	556.1	549.4	548.0	552.8
50°	5202.7	3886.3	1498.1	755.5	621.4	575.0	546.7	534.6	524.5	518.4	521.9
52.5°	5406.0	3979.9	1507.5	746.0	604.7	552.1	524.5	513.1	499.6	489.5	489.5
55°	5553.4	4001.5	1486.7	738.6	591.8	527.2	499.6	488.8	475.4	463.9	462.6
57.5°	5611.4	3940.9	1409.2	727.8	583.1	503.6	473.3	465.2	453.8	440.3	439.7
60°	5533.2	3753.7	1259.7	705.0	571.6	484.1	447.0	441.6	436.3	423.5	422.8
62.5°	5219.5	3343.0	1066.5	658.5	548.8	463.3	422.8	425.5	426.2	417.4	416.1
65°	4650.6	2778.7	878.0	597.9	514.4	438.3	398.0	410.7	418.1	416.8	414.7
67.5°	3823.7	2162.7	744.0	534.0	469.3	404.0	371.0	385.8	391.9	396.6	395.3
70°	2838.0	1525.0	615.4	466.6	414.7	363.6	336.0	343.4	339.4	344.8	346.7
72.5°	1582.2	915.1	501.6	399.3	358.2	316.4	296.9	295.6	286.8	286.8	286.8
74°	949.3	671.3	441.0	357.5	323.9	285.5	268.7	262.6	254.5	255.2	254.5
75°	763.5	577.0	404.7	330.0	299.6	267.3	250.5	242.4	236.3	236.3	235.7
77.5°	482.1	438.3	325.9	262.6	239.7	220.2	208.8	198.0	198.0	197.3	196.6
80°	364.2	348.8	253.8	198.6	183.8	169.0	161.6	156.9	156.9	158.9	158.3
82.5°	249.8	262.6	178.4	138.7	131.3	120.5	119.1	119.9	117.8	115.1	114.5
85°	182.5	197.3	120.5	87.6	80.1	73.4	78.8	81.5	78.1	72.0	69.3
87.5°	70.1	129.3	64.6	36.3	33.6	29.0	33.6	35.0	37.7	29.6	30.3
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)