

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: P320119

Luminaire Tested: **GLEON-SA5B-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320119
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-SA5B-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 19951 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

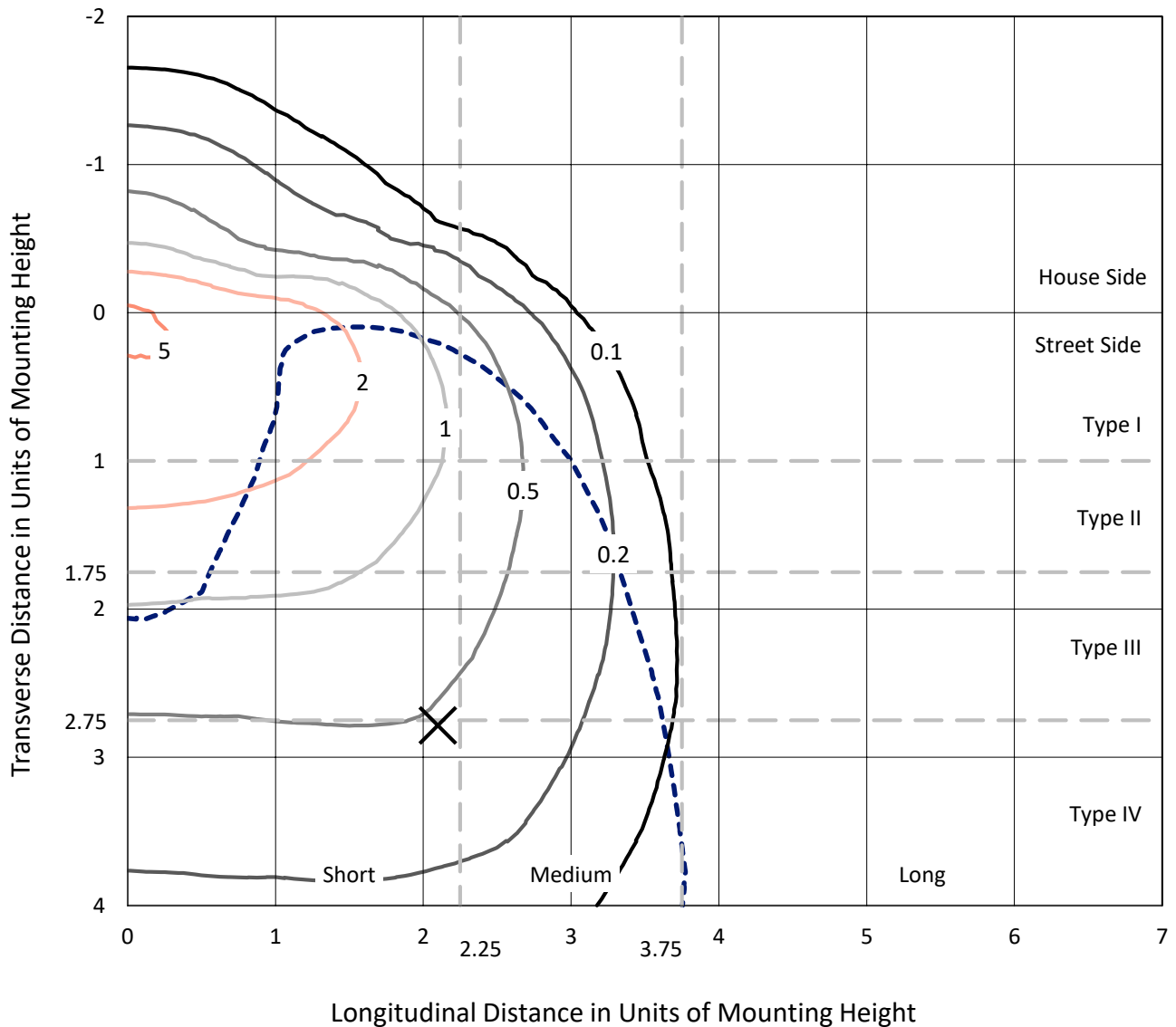
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320119
 CATALOG NUMBER: GLEON-SA5B-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

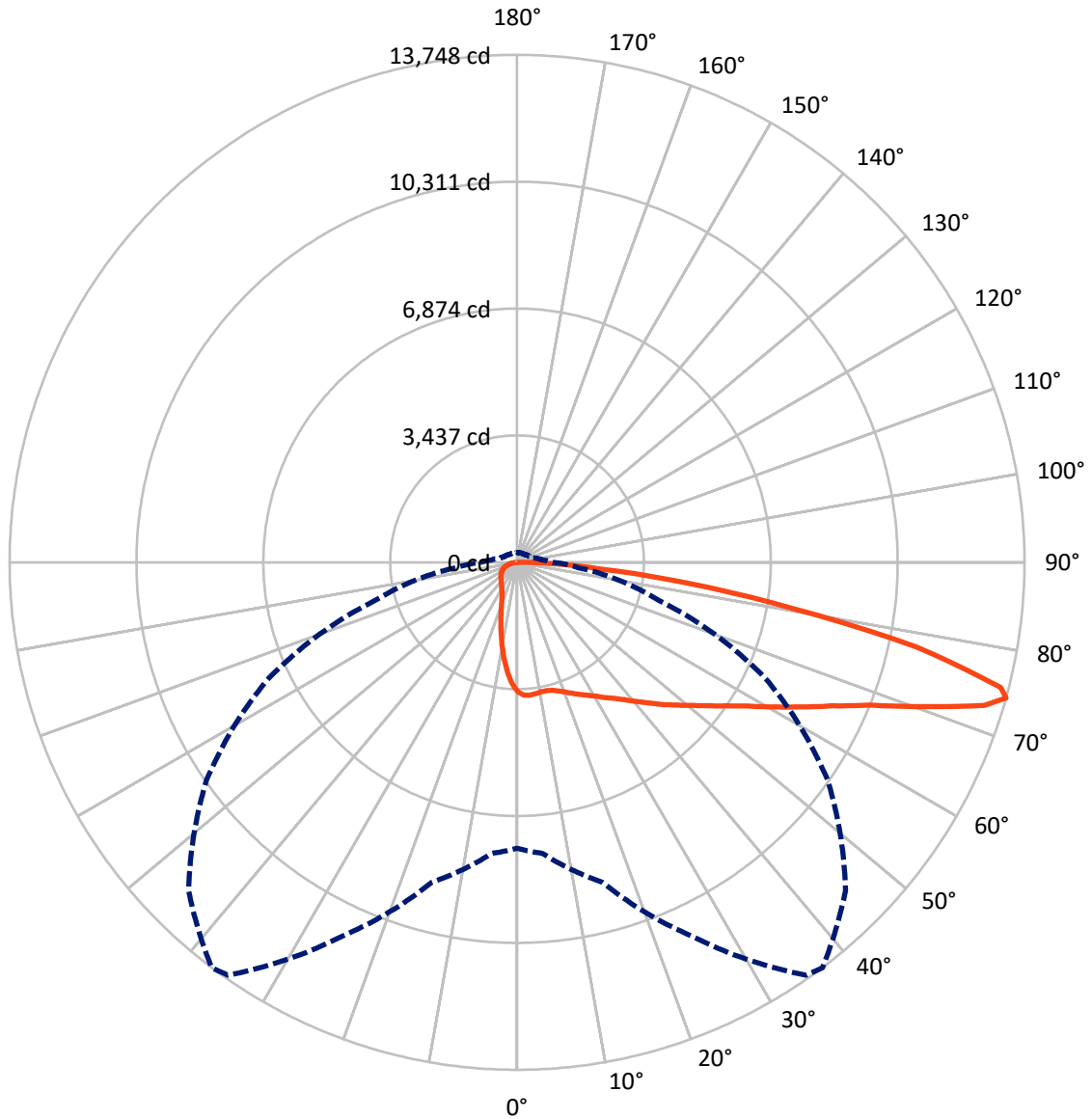
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P320119
CATALOG NUMBER: GLEON-SA5B-827-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P320119
 CATALOG NUMBER: GLEON-SA5B-827-U-SL4

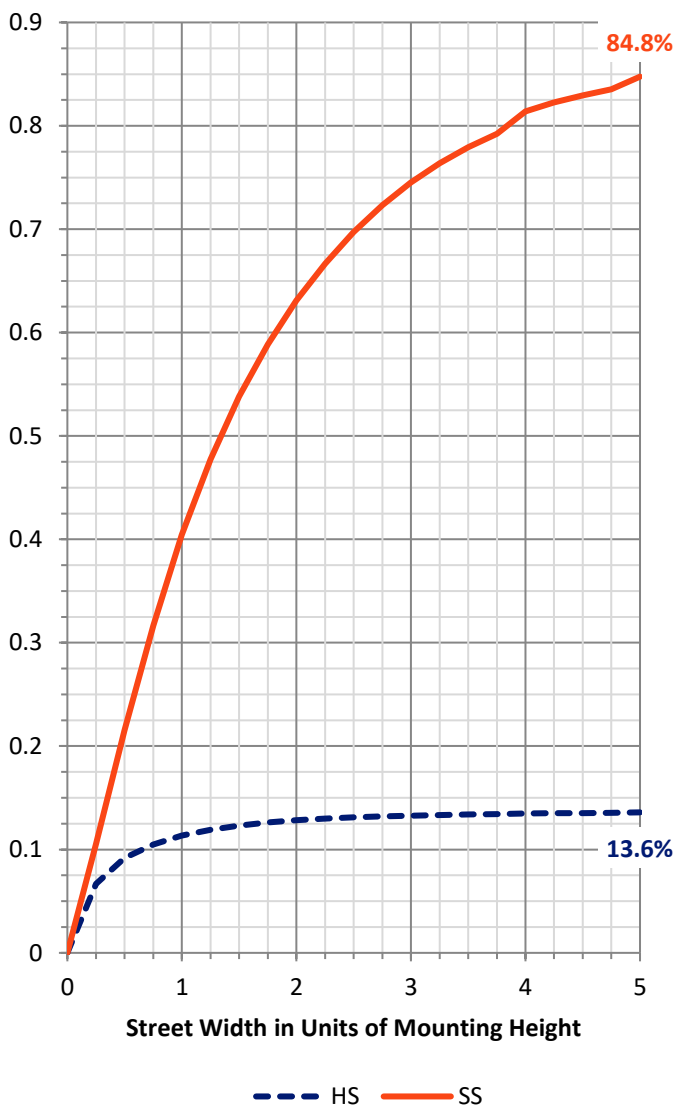
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2745.1	0.0	2745.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17205.9	0.0	17205.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	19951.0	0.0	19951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	1.6
10°-20°	793.5	4.0
20°-30°	1222.6	6.1
30°-40°	1777.8	8.9
40°-50°	2616.7	13.1
50°-60°	3674.7	18.4
60°-70°	4651.0	23.3
70°-80°	4095.4	20.5
80°-90°	809.7	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°	19951.0	100.0
0°-180°	19951.0	100.0

Coefficient of Utilization



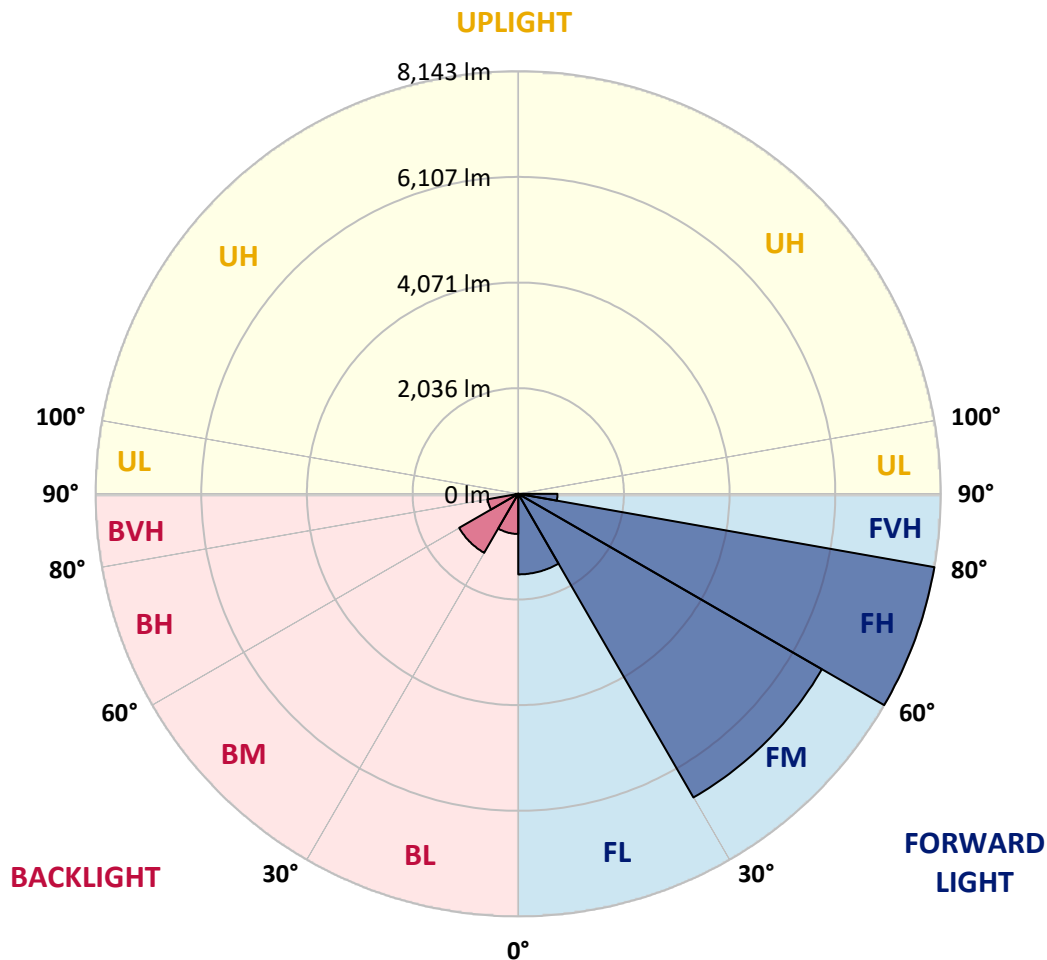
REPORT NUMBER: P320119
 CATALOG NUMBER: GLEON-SA5B-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.4	7.8			
FM (30°-60°)	6755.6	33.9			
FH (60°-80°)	8143.0	40.8			G4/12000
FVH (80°-90°)	754.9	3.8			G5
BL (0°-30°)	773.2	3.9	B2/1000		
BM (30°-60°)	1313.6	6.6	B2/2500		
BH (60°-80°)	603.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	54.8	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-G5

Type IV Short





REPORT NUMBER: P320119
 CATALOG NUMBER: GLEON-SA5B-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3
2.5°	3635.5	3636.2	3635.5	3629.8	3616.5	3605.2	3596.1	3582.8	3553.2	3530.7	3497.0
5°	3669.9	3665.7	3662.9	3652.3	3631.2	3618.6	3601.0	3575.7	3527.2	3482.3	3427.4
7.5°	3653.7	3648.8	3642.5	3629.8	3605.9	3595.4	3570.8	3537.8	3479.4	3420.4	3341.7
10°	3603.8	3602.4	3599.6	3596.8	3576.4	3568.0	3545.5	3510.4	3452.7	3381.1	3289.0
12.5°	3548.3	3551.8	3563.1	3577.8	3568.7	3564.5	3550.4	3526.5	3467.5	3390.2	3279.2
15°	3513.2	3523.0	3553.2	3591.9	3599.6	3598.2	3594.7	3579.2	3516.7	3431.0	3301.6
17.5°	3501.2	3517.4	3575.0	3639.0	3661.5	3666.4	3667.8	3641.1	3571.5	3480.9	3324.8
20°	3523.0	3543.4	3627.7	3715.6	3751.4	3754.2	3747.9	3701.5	3623.5	3523.7	3337.5
22.5°	3589.1	3607.4	3712.8	3811.9	3852.6	3856.8	3837.9	3767.6	3678.3	3574.3	3355.1
25°	3716.3	3738.8	3844.2	3943.3	3964.4	3965.1	3937.7	3850.5	3750.0	3645.3	3393.0
27.5°	3882.1	3904.6	3999.5	4096.5	4085.2	4078.9	4041.7	3954.5	3843.5	3743.0	3460.5
30°	4067.0	4091.6	4181.5	4250.4	4223.7	4211.0	4180.8	4068.4	3973.5	3876.5	3563.8
32.5°	4258.1	4280.6	4359.3	4406.4	4372.7	4367.1	4321.4	4218.8	4142.9	4080.3	3731.0
35°	4454.2	4470.4	4547.7	4574.4	4529.4	4528.0	4515.3	4421.2	4373.4	4402.9	3974.2
37.5°	4654.5	4658.7	4724.8	4726.2	4712.8	4718.4	4731.8	4672.8	4686.1	4778.2	4290.5
40°	4833.0	4844.2	4892.0	4906.8	4930.0	4949.7	5016.4	4977.8	5081.1	5244.1	4684.0
42.5°	4965.1	4986.9	5063.5	5101.5	5176.7	5207.6	5301.7	5337.6	5545.6	5790.2	5152.1
45°	5076.9	5110.6	5233.6	5311.6	5438.8	5492.9	5627.8	5748.0	6070.6	6382.6	5644.7
47.5°	5197.7	5240.6	5394.5	5543.5	5716.4	5777.5	6022.8	6202.7	6630.7	6978.6	6109.2
50°	5375.5	5408.6	5559.0	5793.0	6008.7	6087.5	6426.9	6684.8	7199.9	7546.4	6511.9
52.5°	5623.6	5611.0	5738.2	6066.4	6355.9	6452.9	6858.4	7197.8	7776.9	8060.1	6852.1
55°	5873.1	5852.0	5941.3	6352.4	6760.7	6862.6	7333.5	7713.0	8325.8	8522.6	7112.8
57.5°	6150.7	6110.6	6185.8	6675.0	7221.7	7343.3	7865.5	8260.4	8865.5	8896.4	7278.7
60°	6436.7	6382.6	6467.0	7074.9	7807.1	7950.5	8488.1	8794.5	9374.3	9195.8	7332.1
62.5°	6686.9	6649.0	6779.0	7521.1	8467.1	8624.5	9099.6	9362.4	9876.1	9320.2	7139.5
65°	6905.5	6911.8	7136.7	8022.9	9202.9	9370.8	9800.9	10062.4	10271.1	9246.4	6689.0
67.5°	7166.2	7202.1	7585.8	8683.5	10129.1	10313.2	10821.4	10825.6	10491.8	8813.5	5802.1
70°	7546.4	7620.2	8203.5	9599.9	11446.1	11699.1	12091.3	11273.9	10181.8	7639.9	4565.2
72.5°	7883.7	8021.5	8860.6	10648.5	13051.3	13243.1	12834.1	11015.3	8886.6	5725.5	2844.1
74°	7746.7	7917.5	8980.1	11165.0	13655.7	13747.7	12583.2	10260.5	7409.4	3965.1	1652.9
75°	7451.5	7637.1	8805.8	11160.1	13579.1	13527.7	11977.4	9398.2	6102.2	2704.3	1099.8
77.5°	6013.7	6209.7	7419.9	9564.8	11134.1	11085.6	9200.8	6304.6	2672.7	886.9	558.7
80°	3496.3	3646.0	4606.0	6074.1	7507.8	7595.6	6050.9	3119.6	1051.4	498.3	378.8
82.5°	1553.1	1656.4	2225.0	3100.7	4530.8	4643.9	3168.8	1634.7	649.4	302.9	227.7
85°	1019.0	1095.6	1350.7	1476.5	2157.5	2234.8	1551.0	1272.7	428.7	166.6	167.3
87.5°	733.0	806.8	1003.6	876.4	990.2	937.5	844.0	1177.9	172.2	94.9	56.2
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: P320119
 CATALOG NUMBER: GLEON-SA5B-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3	3515.3
2.5°	3482.3	3471.0	3445.7	3397.9	3371.2	3348.7	3311.5	3289.7	3279.9	3279.2	3283.4
5°	3395.8	3369.8	3304.5	3224.3	3160.4	3102.1	3029.7	2986.1	2955.2	2936.9	2941.8
7.5°	3295.3	3254.6	3152.0	3024.0	2921.4	2808.3	2696.6	2629.8	2577.8	2539.1	2546.2
10°	3226.4	3170.2	3020.5	2836.4	2665.6	2501.2	2347.3	2255.2	2182.1	2125.9	2130.1
12.5°	3203.3	3127.4	2920.0	2674.1	2434.4	2209.5	2008.5	1867.3	1792.1	1728.1	1733.0
15°	3206.8	3104.9	2835.7	2527.9	2226.4	1943.2	1699.3	1534.2	1432.3	1388.0	1388.7
17.5°	3209.6	3078.9	2747.2	2371.2	2020.5	1694.4	1429.4	1262.2	1165.9	1125.1	1125.8
20°	3200.4	3036.7	2637.5	2191.3	1805.4	1466.0	1209.5	1067.5	994.4	962.8	962.8
22.5°	3188.5	2986.8	2513.8	2010.6	1593.2	1267.8	1052.1	943.8	901.7	880.6	879.9
25°	3194.1	2949.6	2387.3	1825.1	1397.8	1109.7	947.3	875.7	847.5	834.2	833.5
27.5°	3224.3	2932.0	2270.7	1640.3	1227.0	990.9	877.1	826.5	808.2	799.8	799.8
30°	3279.2	2932.0	2149.1	1482.9	1085.1	903.1	823.0	788.5	775.9	770.2	770.2
32.5°	3374.7	2948.1	2031.7	1326.8	971.9	834.2	778.0	754.8	744.9	742.1	742.1
35°	3539.2	3003.0	1917.2	1179.3	880.6	778.0	735.1	721.8	714.7	714.0	716.1
37.5°	3770.4	3114.7	1809.6	1070.3	815.9	732.3	699.3	688.7	684.5	688.0	690.8
40°	4061.3	3266.5	1712.0	971.9	766.7	695.7	666.2	659.2	657.1	662.0	666.2
42.5°	4412.7	3471.7	1631.8	901.0	728.8	664.8	638.1	629.7	627.6	633.2	638.8
45°	4792.9	3692.4	1575.6	848.3	699.3	641.6	613.5	604.4	600.2	603.0	609.3
47.5°	5138.7	3901.1	1553.1	811.0	671.2	622.0	591.7	580.5	573.5	572.1	577.0
50°	5430.4	4056.4	1563.7	788.5	648.7	600.2	570.7	558.0	547.5	541.1	544.7
52.5°	5642.6	4154.1	1573.5	778.7	631.1	576.3	547.5	535.5	521.5	510.9	510.9
55°	5796.5	4176.6	1551.7	770.9	617.7	550.3	521.5	510.2	496.2	484.2	482.8
57.5°	5856.9	4113.4	1470.9	759.7	608.6	525.7	494.1	485.6	473.7	459.6	458.9
60°	5775.4	3918.0	1314.9	735.8	596.7	505.3	466.6	461.0	455.4	442.0	441.3
62.5°	5447.9	3489.3	1113.2	687.3	572.8	483.5	441.3	444.2	444.9	435.7	434.3
65°	4854.1	2900.4	916.4	624.1	536.9	457.5	415.3	428.7	436.4	435.0	432.9
67.5°	3991.1	2257.3	776.6	557.3	489.8	421.7	387.2	402.7	409.0	413.9	412.5
70°	2962.2	1591.8	642.3	487.0	432.9	379.5	350.7	358.4	354.2	359.8	361.9
72.5°	1651.5	955.1	523.6	416.7	373.9	330.3	309.9	308.5	299.4	299.4	299.4
74°	990.9	700.7	460.3	373.2	338.0	298.0	280.4	274.1	265.6	266.4	265.6
75°	796.9	602.3	422.4	344.4	312.7	279.0	261.4	253.0	246.7	246.7	246.0
77.5°	503.2	457.5	340.1	274.1	250.2	229.8	217.9	206.6	206.6	205.9	205.2
80°	380.2	364.0	264.9	207.3	191.9	176.4	168.7	163.7	163.7	165.9	165.2
82.5°	260.7	274.1	186.2	144.8	137.0	125.8	124.4	125.1	123.0	120.2	119.5
85°	190.5	205.9	125.8	91.4	83.6	76.6	82.2	85.0	81.5	75.2	72.4
87.5°	73.1	134.9	67.5	37.9	35.1	30.2	35.1	36.5	39.4	30.9	31.6
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)