

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: P322362

Luminaire Tested: **GLEON-SA8B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24535 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

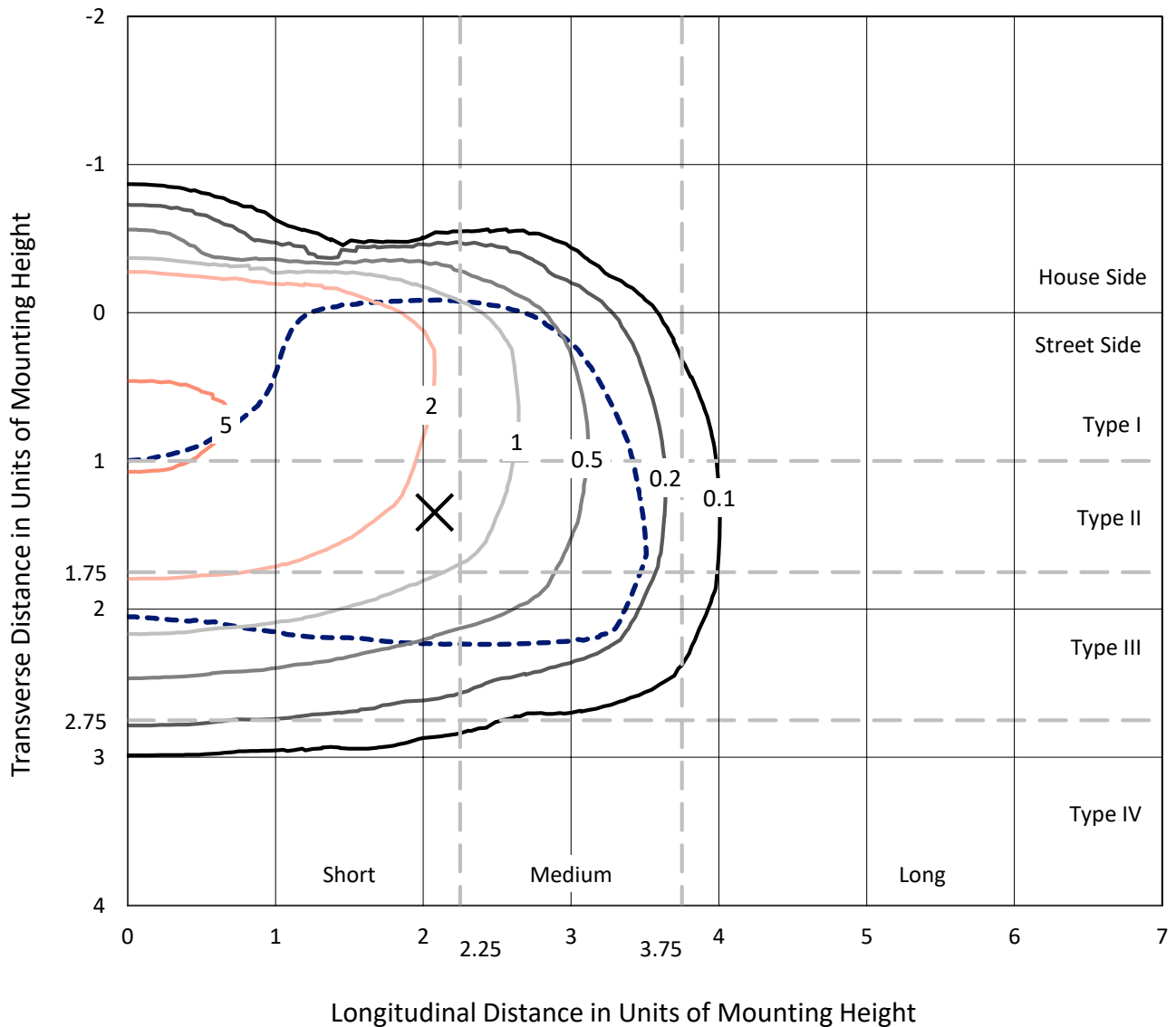
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322362
 CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

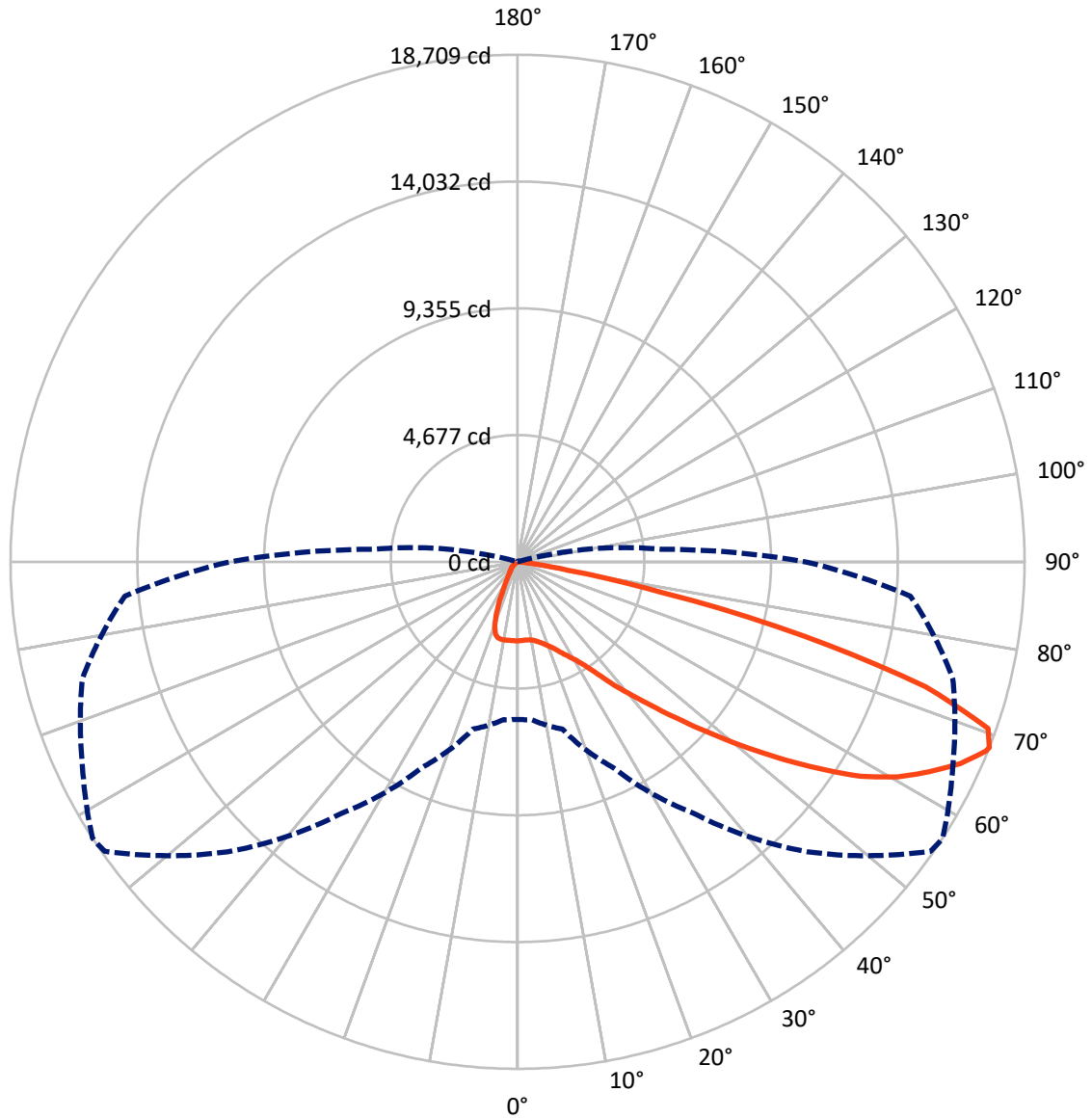
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P322362
CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

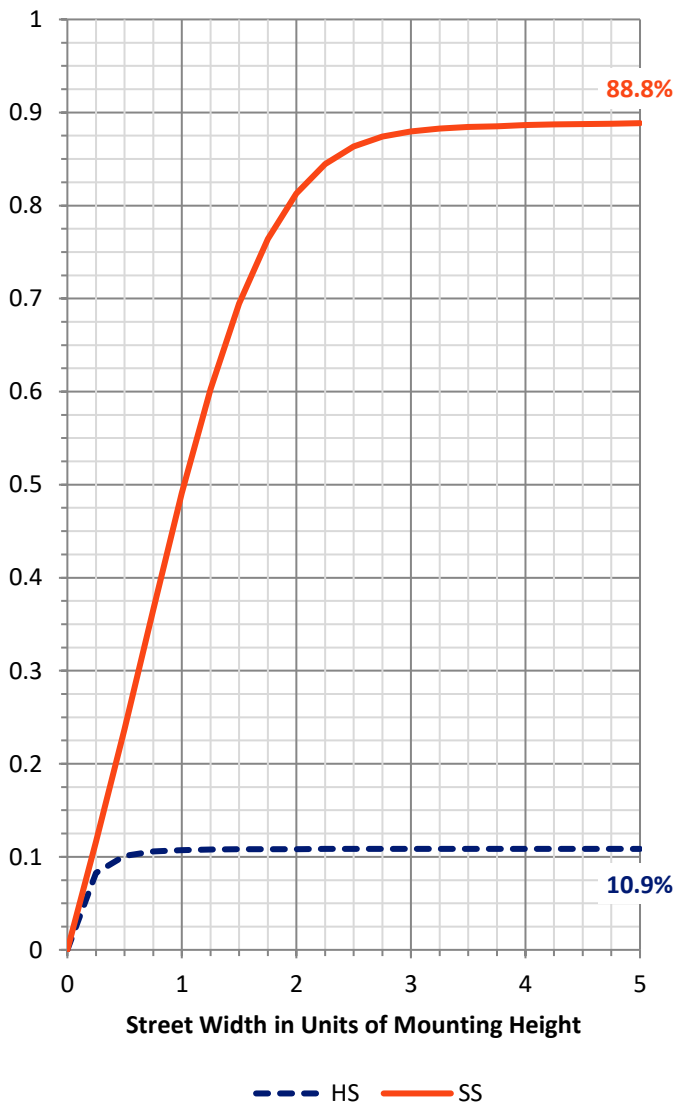
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2690.4	0.0	2690.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	21844.6	0.0	21844.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	24535.0	0.0	24535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.1
10°-20°	756.1	3.1
20°-30°	1304.3	5.3
30°-40°	2251.1	9.2
40°-50°	3850.6	15.7
50°-60°	6160.5	25.1
60°-70°	7117.8	29.0
70°-80°	2719.8	11.1
80°-90°	102.0	0.4
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°	24535.0	100.0
0°-180°	24535.0	100.0

Coefficient of Utilization



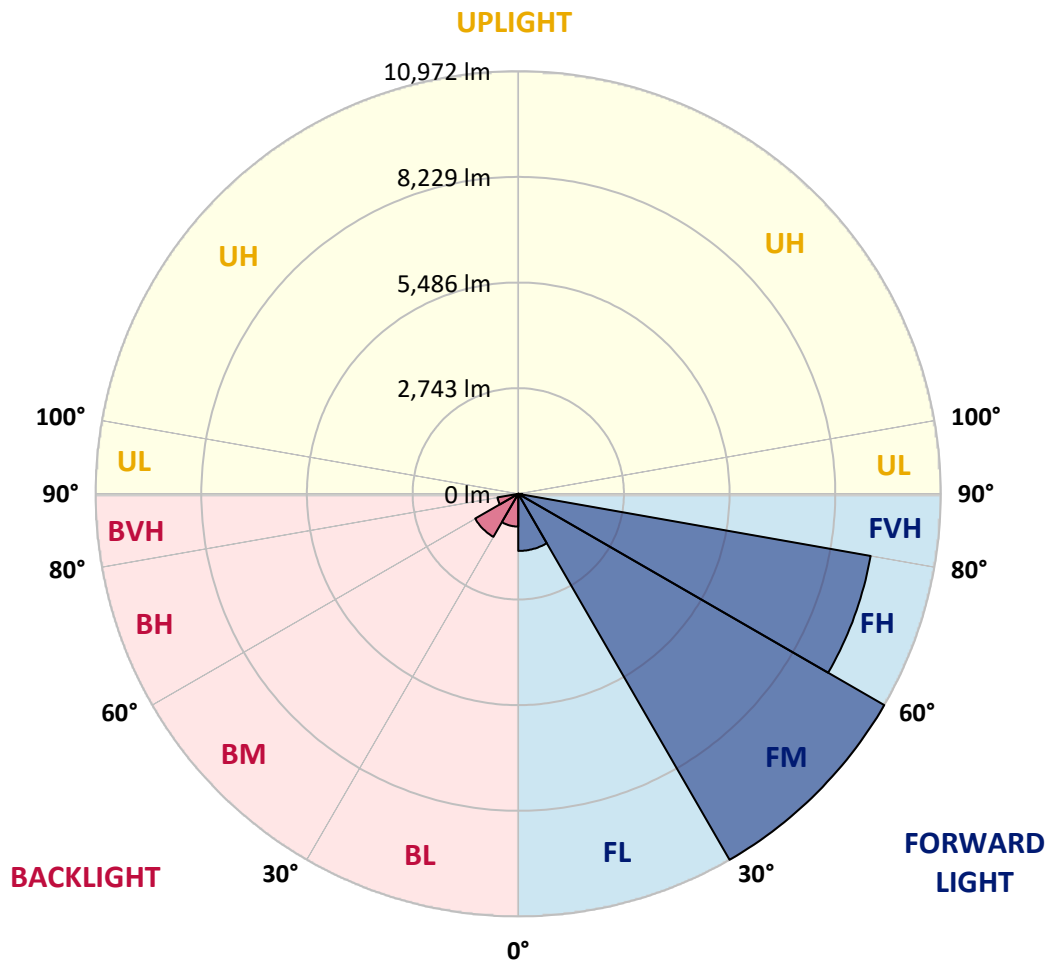
REPORT NUMBER: P322362
 CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.9	6.0			
FM (30°-60°)	10971.8	44.7			
FH (60°-80°)	9289.7	37.9			G4/12000
FVH (80°-90°)	100.1	0.4			G2/225
BL (0°-30°)	850.3	3.5	B2/1000		
BM (30°-60°)	1290.4	5.3	B2/2500		
BH (60°-80°)	547.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.9	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 III Short





REPORT NUMBER: P322362

CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4
2.5°	2847.0	2859.7	2869.0	2874.8	2881.8	2896.8	2901.5	2908.4	2911.9	2911.9	2920.0
5°	2734.4	2748.3	2768.1	2784.3	2816.8	2858.6	2888.7	2900.3	2921.2	2939.8	2950.2
7.5°	2630.0	2646.3	2669.5	2707.7	2763.4	2830.7	2893.4	2909.6	2950.2	2989.7	3009.4
10°	2562.7	2575.5	2605.7	2660.2	2733.3	2827.2	2915.4	2935.1	3004.7	3070.9	3108.0
12.5°	2539.5	2551.1	2582.4	2643.9	2734.4	2844.6	2966.5	2995.5	3097.5	3193.8	3246.0
15°	2573.2	2575.5	2609.1	2667.1	2756.5	2887.6	3051.1	3085.9	3214.7	3340.0	3405.0
17.5°	2703.1	2692.7	2710.1	2735.6	2806.4	2944.4	3140.5	3192.7	3364.4	3511.7	3573.2
20°	3027.9	3027.9	2988.5	2918.9	2920.0	3032.6	3261.1	3320.3	3530.3	3700.8	3756.5
22.5°	3583.6	3573.2	3494.3	3323.8	3167.2	3184.6	3408.5	3485.0	3729.8	3912.0	3930.5
25°	4251.9	4239.1	4117.3	3877.2	3605.7	3430.5	3608.0	3696.2	3967.6	4128.9	4090.6
27.5°	4959.6	4949.1	4828.5	4530.3	4144.0	3822.6	3845.8	3929.4	4210.1	4369.0	4247.2
30°	5645.2	5648.7	5529.2	5222.9	4785.5	4322.6	4147.5	4196.2	4445.6	4606.9	4432.9
32.5°	6297.2	6301.8	6198.6	5856.3	5448.0	4903.9	4565.1	4552.3	4719.4	4878.3	4678.8
35°	6878.4	6890.0	6819.2	6553.6	6120.8	5551.2	5106.9	5076.7	5108.0	5287.9	5055.8
37.5°	7438.7	7445.7	7392.3	7168.4	6806.5	6262.4	5791.4	5748.4	5681.2	5819.2	5553.5
40°	8052.5	8035.1	7973.6	7770.5	7459.6	7047.8	6526.9	6452.6	6335.5	6458.4	6207.9
42.5°	8623.2	8603.5	8614.0	8384.3	8122.1	7855.2	7384.2	7256.6	7188.2	7329.7	7010.7
45°	9336.7	9326.3	9361.1	9161.5	8949.2	8755.5	8366.9	8227.6	8197.5	8363.4	7981.7
47.5°	10040.9	10066.4	10174.3	10089.6	10003.8	9833.3	9407.5	9344.8	9363.4	9564.1	9006.1
50°	10627.9	10658.1	10953.9	11051.4	11175.5	11075.8	10648.8	10610.5	10683.6	10864.6	10108.2
52.5°	11052.6	11114.0	11481.8	11930.8	12383.2	12450.5	12024.7	11989.9	12088.5	12116.4	10959.7
55°	11347.2	11401.8	11818.2	12639.6	13560.8	13850.8	13586.3	13451.7	13433.1	13158.2	11855.4
57.5°	11399.4	11393.6	11992.3	13097.9	14484.2	15232.5	15065.4	14933.2	14552.7	14121.1	12882.1
60°	11104.8	11138.4	11833.3	13256.8	15064.3	16277.8	16290.5	16118.8	15526.0	15057.3	13877.5
62.5°	10197.5	10334.4	11036.3	12840.3	15057.3	16698.9	17188.5	17057.4	16348.5	15824.2	14886.8
65°	8726.5	8775.2	9444.6	11413.4	14039.9	16522.6	17997.1	17948.4	17089.9	16569.0	15405.4
67.5°	6372.6	6267.0	6970.1	8987.5	11886.7	15494.7	18577.1	18638.6	17661.8	16722.1	14853.1
68°	5815.7	5847.1	6394.6	8387.7	11322.9	15131.6	18615.4	18709.4	17718.7	16622.3	14551.5
70°	3466.5	3526.8	4015.2	5775.1	8614.0	13077.0	18202.4	18417.1	17379.9	15593.3	12586.2
72.5°	885.2	957.1	1418.8	2584.8	4920.1	9213.7	15365.9	15729.0	15089.8	12650.0	8496.8
75°	364.3	382.8	507.0	851.5	1833.0	4150.9	10127.9	10905.2	10460.9	7573.3	3840.0
77.5°	251.7	264.5	326.0	472.2	793.5	1407.2	4965.4	5526.9	4979.3	2584.8	837.6
80°	181.0	191.4	233.2	314.4	455.9	502.3	1618.4	1871.3	1486.1	567.3	207.7
82.5°	107.9	116.0	174.0	223.9	277.3	240.1	402.6	457.1	430.4	281.9	92.8
85°	53.4	62.6	117.2	160.1	149.7	100.9	123.0	136.9	169.4	171.7	49.9
87.5°	3.5	7.0	68.4	96.3	41.8	23.2	36.0	44.1	60.3	84.7	20.9
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: P322362

CATALOG NUMBER: GLEON-SA8B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4	2915.4
2.5°	2923.5	2924.7	2916.6	2913.1	2915.4	2901.5	2895.7	2898.0	2898.0	2901.5	2895.7
5°	2952.5	2952.5	2938.6	2920.0	2909.6	2882.9	2865.5	2860.9	2857.4	2855.1	2850.4
7.5°	3015.2	3008.2	2983.9	2943.2	2908.4	2850.4	2806.4	2783.2	2771.5	2766.9	2763.4
10°	3116.1	3103.3	3062.7	2987.3	2907.3	2804.0	2707.7	2639.3	2582.4	2559.2	2545.3
12.5°	3251.8	3233.3	3164.8	3039.5	2899.2	2708.9	2500.1	2299.4	2112.6	2036.0	1997.7
15°	3408.5	3381.8	3273.9	3083.6	2851.6	2494.3	2040.7	1689.1	1430.4	1333.0	1291.2
17.5°	3567.4	3532.6	3369.0	3111.5	2708.9	2049.9	1431.6	1081.2	908.4	862.0	845.7
20°	3727.5	3676.4	3451.4	3090.6	2386.4	1478.0	944.3	790.0	740.2	726.2	721.6
22.5°	3879.5	3800.6	3525.6	3009.4	1889.9	991.9	747.1	698.4	682.2	674.0	671.7
25°	4011.7	3901.5	3590.6	2758.8	1337.6	749.4	672.9	656.6	635.8	620.7	621.8
27.5°	4135.9	4002.4	3630.0	2345.8	892.1	640.4	623.0	600.9	562.7	540.6	540.6
30°	4285.5	4137.0	3659.0	1805.2	656.6	566.1	552.2	518.6	466.4	437.4	437.4
32.5°	4510.6	4341.2	3640.5	1266.9	544.1	497.7	465.2	418.8	362.0	334.1	333.0
35°	4855.1	4656.8	3508.2	830.7	480.3	432.7	380.5	323.7	273.8	250.6	249.4
37.5°	5319.2	5079.0	3211.2	594.0	430.4	372.4	309.8	247.1	210.0	194.9	193.7
40°	5921.3	5569.8	2786.6	481.5	384.0	314.4	239.0	191.4	165.9	154.3	155.5
42.5°	6644.1	6095.3	2277.3	415.3	338.8	258.7	186.8	150.8	134.6	126.5	124.1
45°	7446.9	6613.9	1743.7	370.1	293.5	208.8	146.2	119.5	106.7	102.1	102.1
47.5°	8329.7	7118.6	1276.1	330.6	244.8	161.3	117.2	97.5	87.0	83.5	82.4
50°	9131.4	7468.9	920.0	288.9	200.7	127.6	95.1	81.2	74.2	69.6	69.6
52.5°	9799.6	7579.1	677.5	243.6	162.4	102.1	78.9	69.6	62.6	59.2	59.2
55°	10387.8	7533.9	503.5	200.7	131.1	83.5	67.3	59.2	53.4	49.9	49.9
57.5°	10951.6	7387.7	375.9	163.6	105.6	67.3	56.8	49.9	44.1	41.8	41.8
60°	11412.2	7144.1	279.6	132.3	84.7	54.5	47.6	40.6	36.0	32.5	32.5
62.5°	11785.8	6874.9	205.3	109.1	67.3	42.9	37.1	33.6	26.7	23.2	23.2
65°	11788.1	6428.3	154.3	90.5	52.2	33.6	27.8	26.7	17.4	13.9	12.8
67.5°	10935.4	5541.9	118.3	77.7	40.6	25.5	20.9	22.0	9.3	5.8	4.6
68°	10625.6	5316.9	111.4	76.6	38.3	24.4	19.7	22.0	8.1	4.6	3.5
70°	8958.5	4229.8	89.3	74.2	33.6	18.6	16.2	22.0	7.0	3.5	2.3
72.5°	5729.9	2454.8	66.1	59.2	25.5	13.9	10.4	19.7	7.0	2.3	1.2
75°	2438.6	761.0	45.2	41.8	15.1	10.4	7.0	12.8	4.6	1.2	0.0
77.5°	513.9	171.7	26.7	25.5	10.4	7.0	4.6	3.5	1.2	0.0	0.0
80°	132.3	49.9	13.9	12.8	5.8	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	41.8	19.7	8.1	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.9	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0	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)