

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: P318520

Luminaire Tested: **GLEON-SA6B-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25131 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

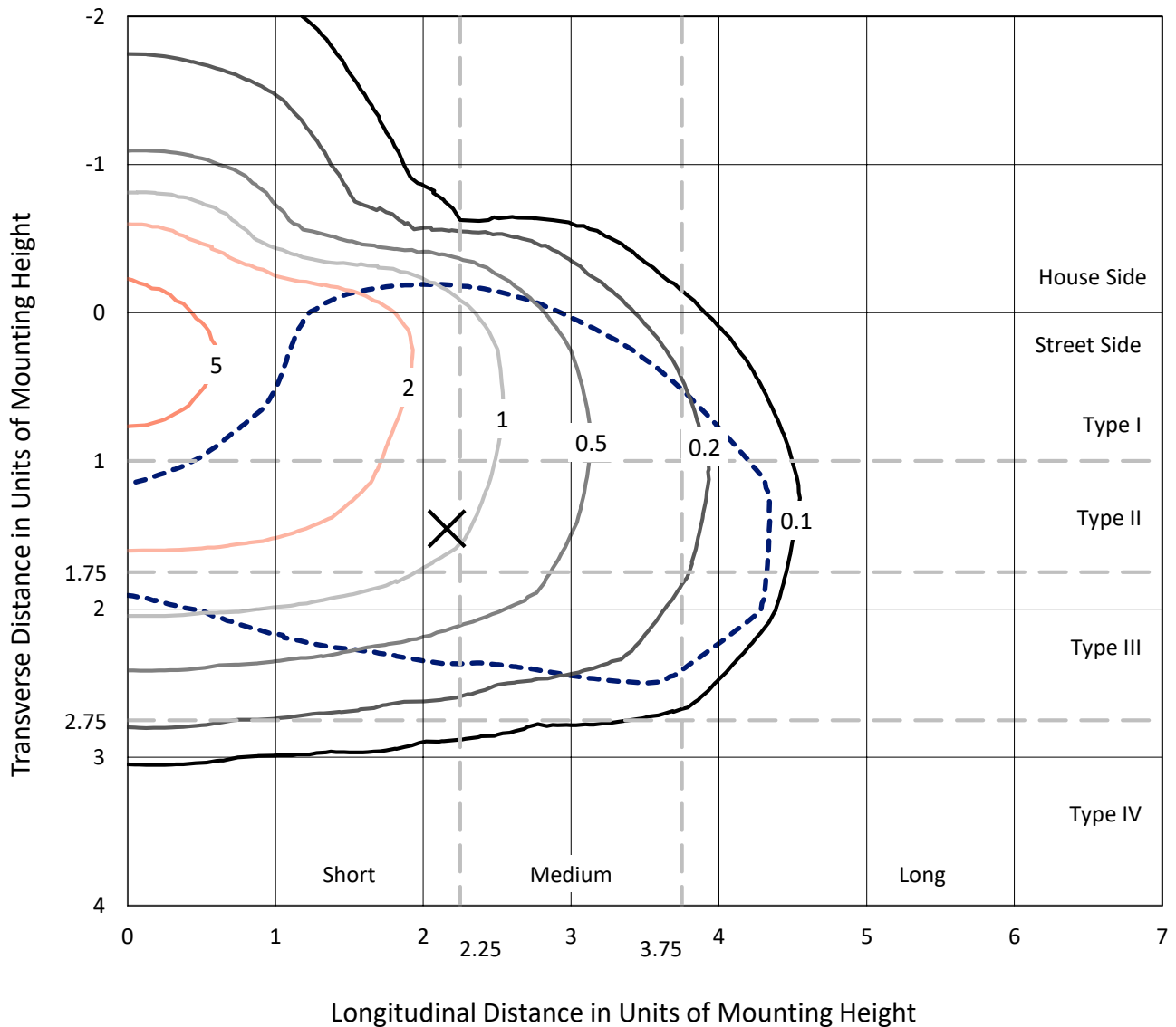
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

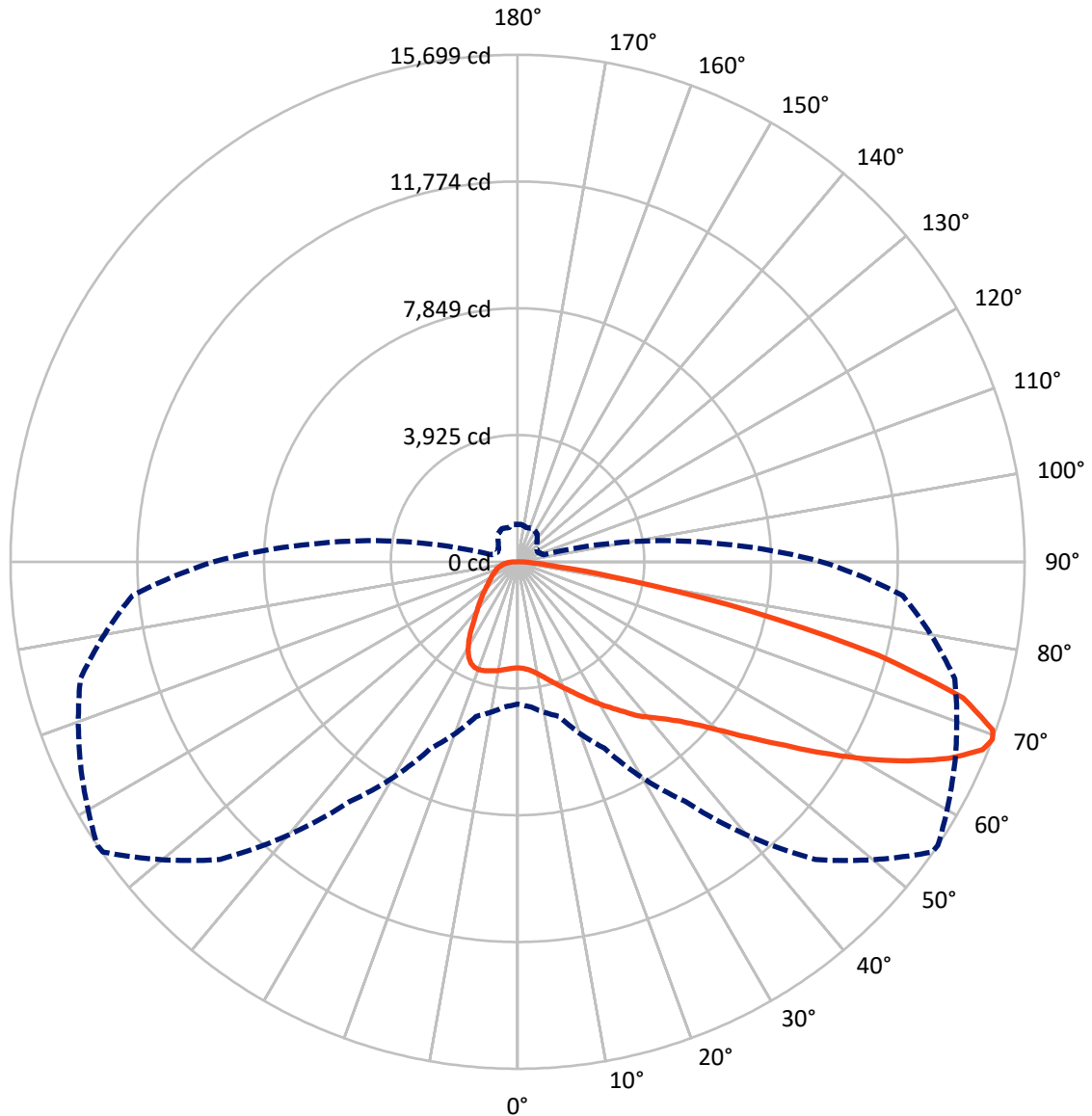
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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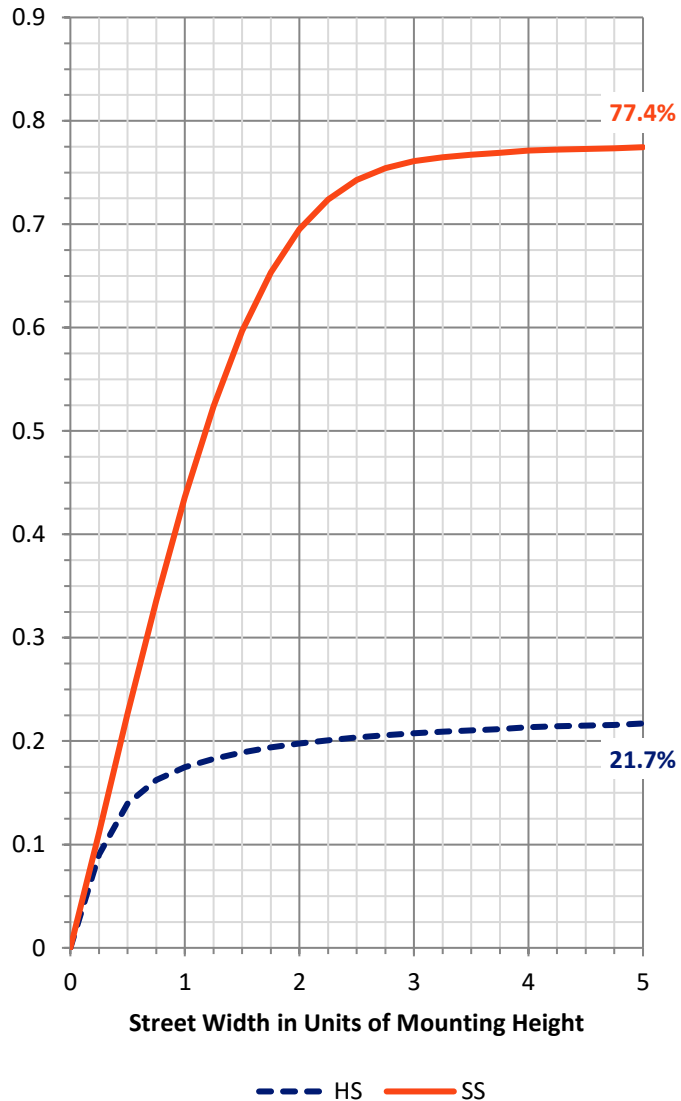
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5596.6	0.0	5596.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	19534.4	0.0	19534.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	25131.0	0.0	25131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.7	1.3
10°-20°	1037.6	4.1
20°-30°	1811.3	7.2
30°-40°	2601.9	10.4
40°-50°	3600.9	14.3
50°-60°	5275.8	21.0
60°-70°	6432.2	25.6
70°-80°	3556.1	14.2
80°-90°	492.5	2.0
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°	25131.0	100.0
0°-180°	25131.0	100.0

**Coefficient of Utilization**



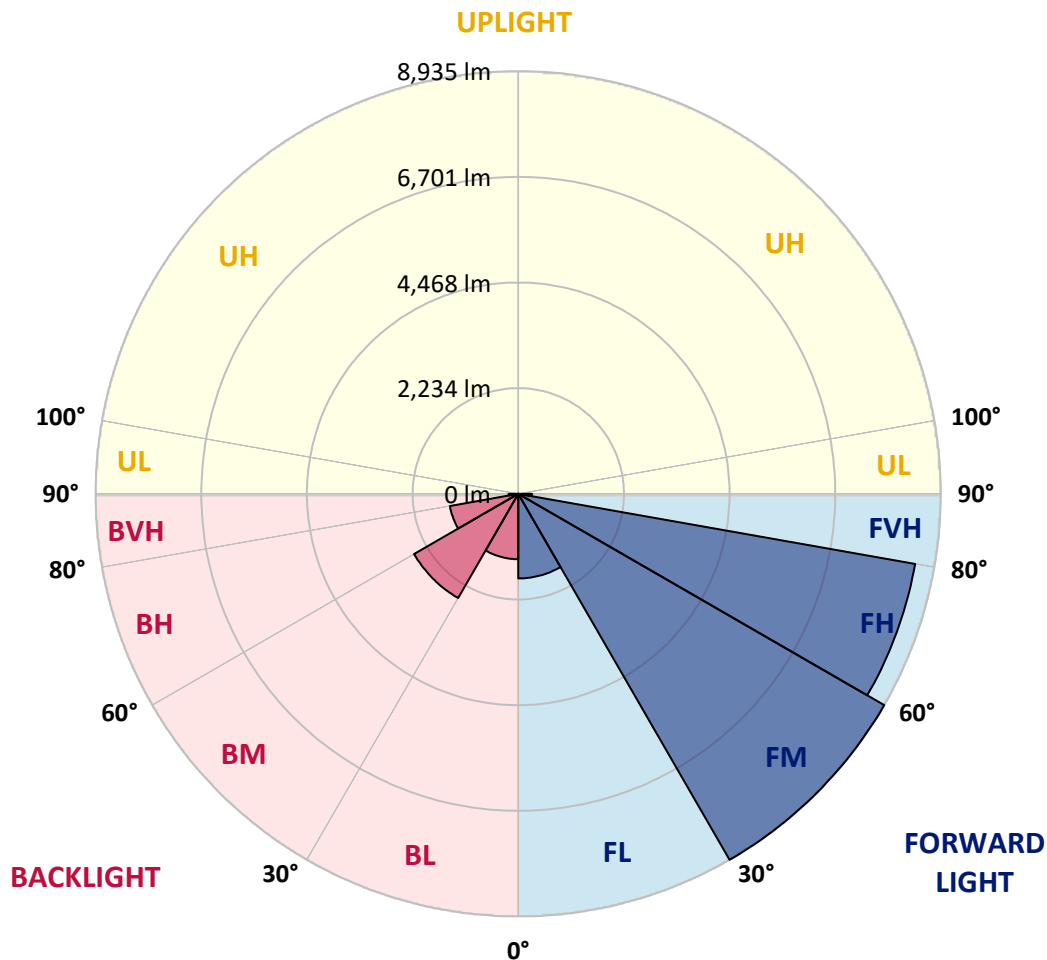
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.6	7.1			
FM (30°-60°)	8935.0	35.6			
FH (60°-80°)	8520.7	33.9			G4/12000
FVH (80°-90°)	290.1	1.2			G3/500
BL (0°-30°)	1383.1	5.5	B3/2500		
BM (30°-60°)	2543.5	10.1	B3/5000		
BH (60°-80°)	1467.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	202.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5
2.5°	3306.3	3309.7	3307.1	3314.1	3306.3	3311.5	3307.1	3307.1	3304.5	3296.8	3288.1
5°	3358.2	3365.1	3360.8	3367.7	3358.2	3360.0	3352.2	3352.2	3344.4	3327.9	3310.6
7.5°	3439.6	3447.4	3443.9	3450.9	3437.9	3437.9	3427.5	3426.6	3411.0	3384.2	3364.3
10°	3536.6	3547.0	3543.5	3553.9	3543.5	3547.0	3536.6	3536.6	3515.8	3477.7	3452.6
12.5°	3677.7	3690.7	3681.1	3680.3	3676.0	3682.9	3674.2	3672.5	3653.4	3601.5	3566.9
15°	3866.4	3880.3	3860.4	3858.6	3834.4	3831.8	3831.8	3829.2	3817.1	3754.7	3697.6
17.5°	4083.7	4088.0	4070.7	4043.0	4011.9	3991.9	3989.4	3996.3	3996.3	3923.6	3832.7
20°	4296.7	4304.5	4290.6	4259.5	4219.6	4190.2	4169.4	4183.3	4182.4	4095.8	3966.8
22.5°	4528.7	4546.9	4526.1	4486.3	4439.5	4406.6	4370.3	4382.4	4383.3	4276.8	4098.4
25°	4829.1	4812.7	4799.7	4743.4	4676.8	4643.0	4609.2	4621.3	4617.9	4471.6	4234.4
27.5°	5094.9	5098.4	5081.1	5021.3	4944.3	4869.8	4868.1	4875.9	4862.9	4674.2	4362.5
30°	5404.0	5405.7	5381.5	5327.8	5243.8	5147.7	5125.2	5138.2	5110.5	4866.3	4497.5
32.5°	5711.3	5720.0	5693.1	5628.2	5560.7	5443.8	5398.8	5407.4	5338.2	5062.9	4636.9
35°	5980.6	5992.7	5984.0	5940.7	5867.1	5766.7	5713.0	5707.9	5622.1	5303.6	4821.3
37.5°	6255.0	6266.3	6256.7	6220.4	6190.9	6084.5	6055.9	6055.9	5907.0	5549.4	5055.9
40°	6537.2	6554.6	6543.3	6493.1	6468.0	6419.5	6351.1	6334.7	6173.6	5844.6	5438.6
42.5°	6799.6	6822.1	6867.1	6837.6	6786.6	6793.5	6655.8	6647.2	6529.4	6281.0	5919.1
45°	7171.8	7204.7	7280.9	7258.4	7248.0	7209.9	7046.3	7038.5	6993.5	6868.0	6515.6
47.5°	7577.9	7622.9	7760.5	7764.9	7876.5	7804.7	7582.2	7555.4	7565.7	7570.9	7243.7
50°	7951.9	8001.2	8227.2	8333.7	8596.8	8612.4	8256.6	8232.4	8273.1	8392.5	8092.1
52.5°	8250.5	8312.9	8595.1	8924.1	9375.1	9503.3	9086.9	9068.7	9099.0	9305.0	9051.4
55°	8469.6	8537.1	8844.4	9443.5	10163.8	10389.8	10042.6	10025.3	10044.4	10306.7	10094.6
57.5°	8520.7	8537.1	8983.0	9793.3	10829.6	11372.4	11212.3	11177.6	11084.1	11312.7	11246.0
60°	8280.8	8346.6	8868.7	9916.2	11344.7	12341.2	12434.7	12391.4	12129.1	12316.1	12262.4
62.5°	7794.3	7912.0	8441.9	9729.2	11546.4	13132.5	13633.7	13581.8	13129.9	13251.1	12993.1
65°	6999.5	7049.8	7606.4	9084.3	11290.2	13638.9	14702.9	14677.0	14108.2	13918.6	13128.1
67.5°	5578.0	5672.4	6145.1	7736.3	10241.8	13579.2	15529.7	15527.1	14747.1	14166.2	12649.4
69°	4406.6	4504.5	4954.7	6372.7	9062.6	13032.9	15668.2	15698.5	14927.2	14015.5	11965.5
70°	3513.2	3626.6	3935.7	5367.6	8015.9	12312.6	15553.1	15607.6	14892.5	13767.1	11334.3
72.5°	1495.1	1586.9	1806.8	2766.9	4885.4	9194.2	14220.7	14426.8	14090.0	12600.0	9367.4
75°	652.8	681.3	780.9	1128.1	2168.7	5004.0	11140.4	11521.3	12047.7	10650.4	6977.9
77.5°	477.9	490.0	544.6	662.3	973.1	1889.9	7164.0	7385.7	8688.6	7750.1	4280.2
80°	369.7	378.3	420.8	486.5	635.5	764.5	3267.3	3457.8	4885.4	3980.7	1782.6
82.5°	294.4	300.4	329.8	358.4	438.9	463.2	1084.8	1203.4	1803.3	1099.5	471.8
85°	273.6	280.5	290.9	261.5	281.4	271.8	469.2	490.9	544.6	432.0	197.4
87.5°	123.8	146.3	288.3	203.4	149.8	119.5	192.2	200.9	226.0	226.8	87.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5	3285.5
2.5°	3293.3	3290.7	3295.0	3284.6	3297.6	3296.8	3292.4	3294.2	3302.8	3301.9	3302.8
5°	3313.2	3311.5	3316.7	3308.9	3324.5	3329.7	3330.5	3338.3	3347.8	3350.4	3350.4
7.5°	3363.4	3363.4	3366.0	3355.6	3366.0	3365.1	3360.8	3368.6	3378.1	3379.0	3378.1
10°	3450.0	3450.9	3446.5	3419.7	3411.0	3387.7	3366.0	3366.9	3379.0	3388.5	3391.1
12.5°	3559.1	3555.6	3536.6	3487.2	3450.9	3403.2	3380.7	3379.9	3392.0	3399.8	3402.4
15°	3683.7	3674.2	3624.9	3544.4	3480.3	3433.5	3397.2	3388.5	3381.6	3372.9	3373.8
17.5°	3801.5	3779.8	3697.6	3585.9	3518.4	3456.1	3385.9	3329.7	3290.7	3268.2	3261.3
20°	3921.0	3878.5	3759.9	3624.9	3539.2	3425.8	3290.7	3176.4	3105.4	3072.5	3066.5
22.5°	4030.0	3961.6	3817.9	3665.6	3522.7	3323.6	3111.5	2945.3	2846.6	2802.4	2805.9
25°	4136.5	4041.3	3878.5	3694.1	3439.6	3143.5	2862.2	2657.8	2543.6	2494.2	2492.5
27.5°	4230.0	4121.8	3944.3	3670.8	3284.6	2887.3	2566.9	2367.8	2272.6	2230.2	2223.2
30°	4337.4	4223.1	4031.8	3581.6	3057.8	2591.2	2278.6	2138.4	2070.9	2028.4	2020.6
32.5°	4468.1	4360.8	4103.6	3419.7	2767.8	2282.1	2053.5	1955.7	1894.2	1846.6	1838.0
35°	4658.6	4542.6	4121.8	3187.7	2449.2	2038.0	1888.2	1787.8	1704.7	1643.2	1637.1
37.5°	4897.5	4770.3	4080.3	2887.3	2140.1	1879.5	1750.5	1626.7	1518.5	1431.9	1418.1
40°	5242.1	5049.9	3965.1	2541.0	1912.4	1757.5	1616.3	1475.2	1341.0	1239.7	1219.8
42.5°	5655.9	5378.0	3788.5	2196.4	1745.3	1633.7	1483.0	1308.1	1180.0	1108.2	1097.8
45°	6182.3	5719.1	3543.5	1895.1	1580.8	1509.9	1339.3	1178.3	1098.6	1045.8	1037.2
47.5°	6783.1	6101.8	3286.4	1650.1	1441.5	1393.8	1224.2	1120.3	1057.1	1015.5	1007.7
50°	7521.6	6533.8	3013.7	1449.3	1301.2	1254.5	1169.6	1088.2	1038.0	1006.0	998.2
52.5°	8354.4	7021.2	2817.1	1290.8	1185.2	1151.4	1141.1	1070.9	1030.2	1006.0	998.2
55°	9251.3	7517.3	2605.0	1157.5	1084.8	1094.3	1122.0	1072.7	1045.0	1015.5	1004.3
57.5°	10149.1	8029.8	2368.7	1045.0	1005.1	1051.9	1109.0	1076.1	1052.7	1024.2	1013.8
60°	10859.0	8354.4	2002.5	950.6	941.9	1005.1	1077.9	1050.1	1019.8	1020.7	1019.0
62.5°	11190.6	8337.1	1598.2	866.6	878.7	941.9	1027.6	1009.5	984.4	1018.1	1020.7
65°	11004.5	7921.6	1244.1	790.4	811.2	876.1	975.7	989.5	998.2	1063.1	1071.8
67.5°	10223.6	7113.0	963.6	723.8	749.7	831.1	980.9	1077.9	1089.1	1157.5	1156.6
69°	9415.8	6354.6	837.2	689.1	719.4	842.4	1048.4	1134.1	1091.7	1164.4	1154.0
70°	8738.8	5754.6	769.6	665.8	705.6	862.3	1093.4	1133.3	1078.7	1141.1	1123.7
72.5°	6730.3	4140.0	652.8	622.5	658.8	825.1	1106.4	1108.2	1048.4	1060.5	1031.1
75°	4616.1	2616.3	569.7	563.6	587.8	743.7	1064.9	1058.8	969.6	952.3	928.1
77.5°	2545.3	1328.9	484.0	507.3	523.8	658.8	967.9	959.2	885.7	849.3	840.6
80°	981.8	581.8	408.6	451.1	461.4	570.5	848.4	840.6	779.2	732.4	719.4
82.5°	370.5	304.7	337.6	390.5	387.0	471.0	718.6	714.2	654.5	586.1	565.3
85°	171.4	182.7	267.5	322.1	297.0	348.9	574.9	582.6	509.9	428.5	428.5
87.5°	72.7	102.2	189.6	243.3	200.0	235.5	421.6	402.6	369.7	256.3	240.7
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)