

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: P324919

Luminaire Tested: **GLEON-SA5B-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324919  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17189 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

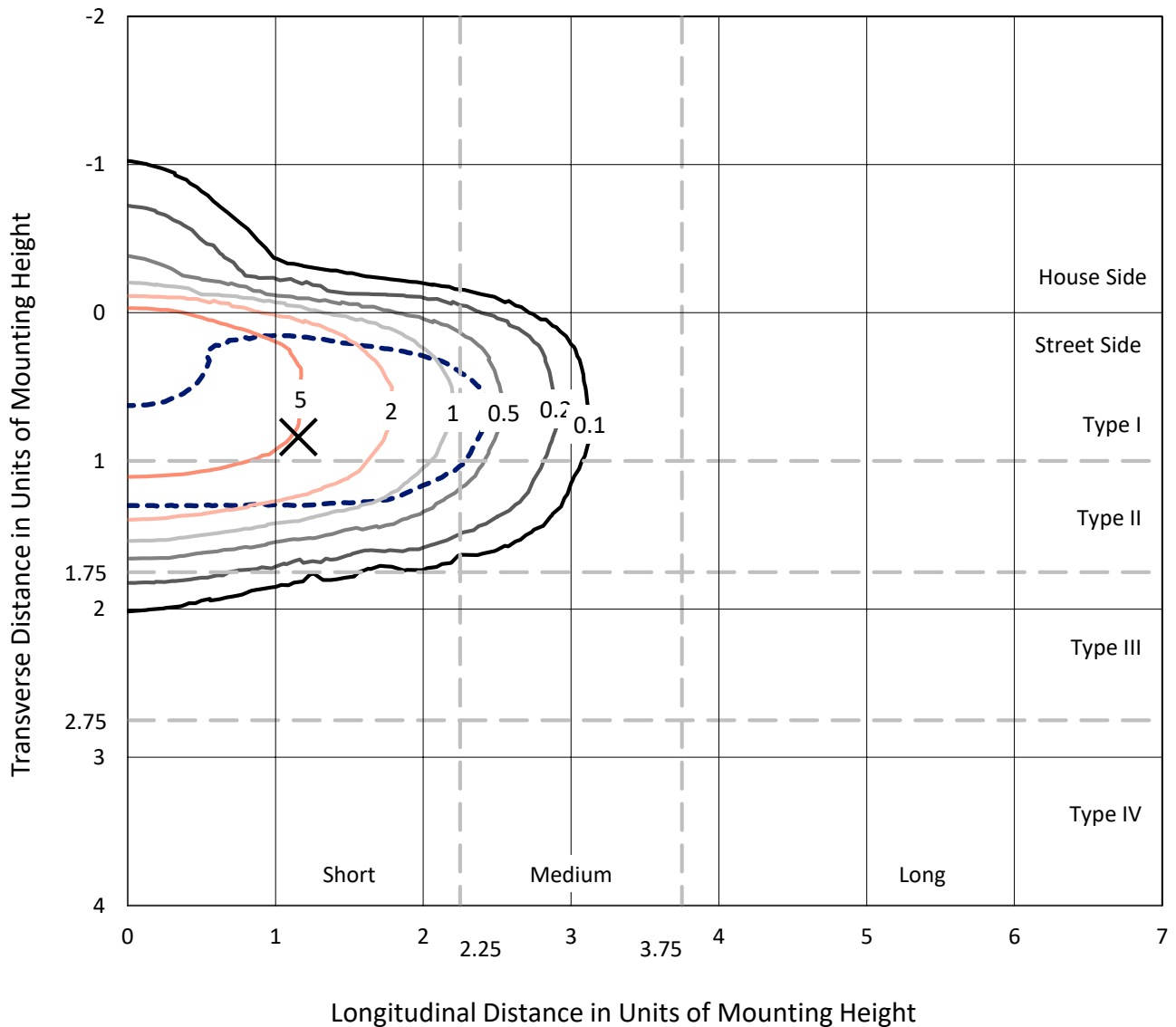
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

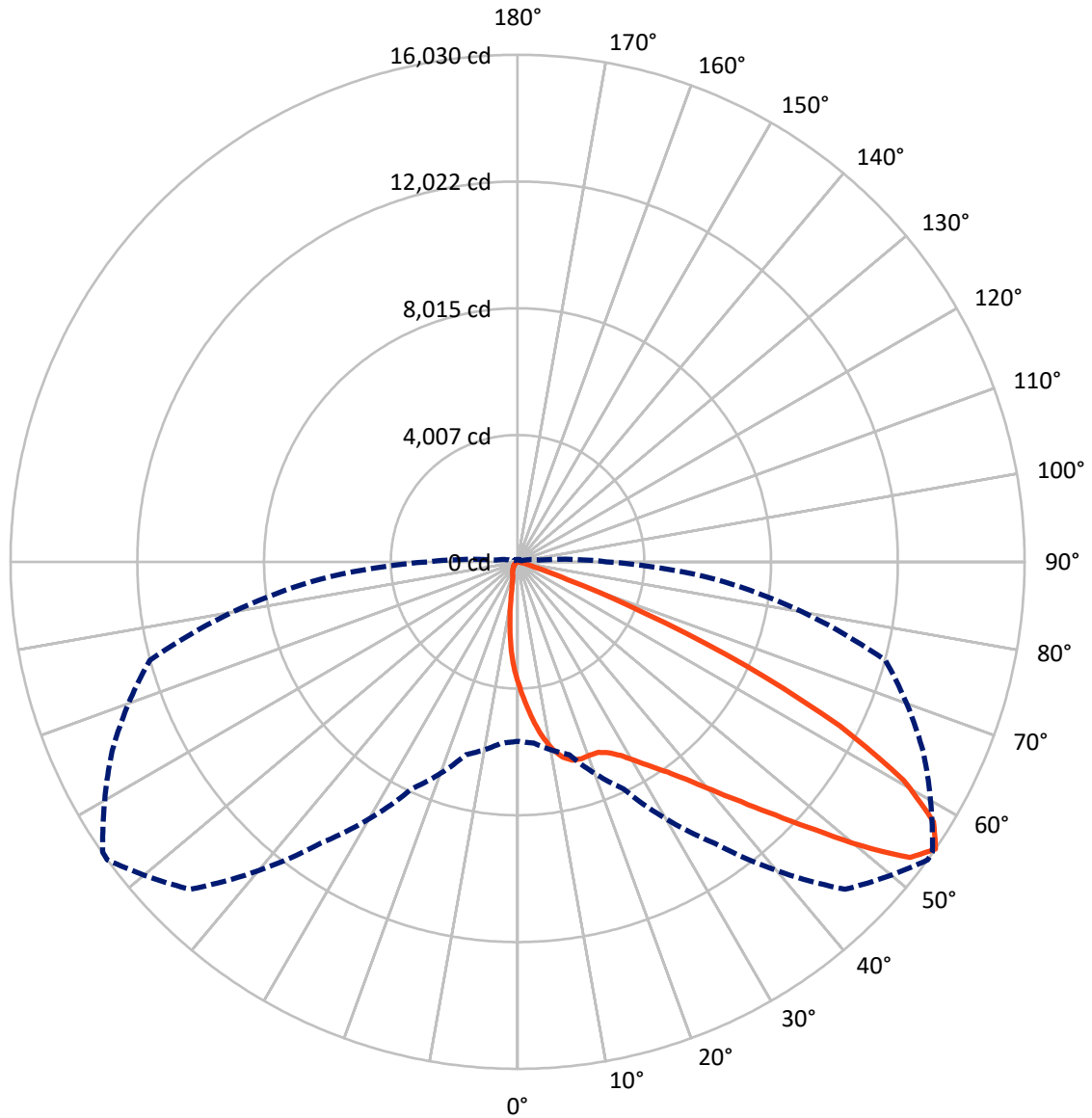
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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 CATALOG NUMBER: GLEON-SA5B-827-U-AFL-HSS

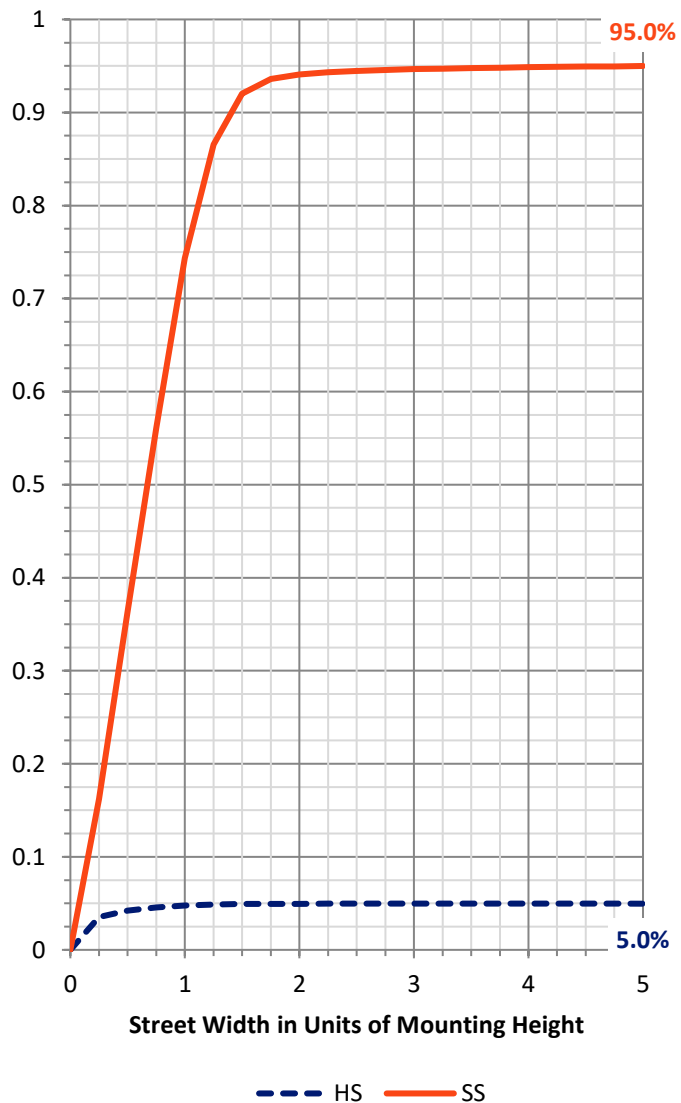
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	857.6	0.0	857.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	16331.4	0.0	16331.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	17189.0	0.0	17189.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.5	2.1
10°-20°	972.3	5.7
20°-30°	1660.0	9.7
30°-40°	2663.9	15.5
40°-50°	4257.0	24.8
50°-60°	4561.5	26.5
60°-70°	2342.0	13.6
70°-80°	354.8	2.1
80°-90°	23.1	0.1
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°	17189.0	100.0
0°-180°	17189.0	100.0

**Coefficient of Utilization**



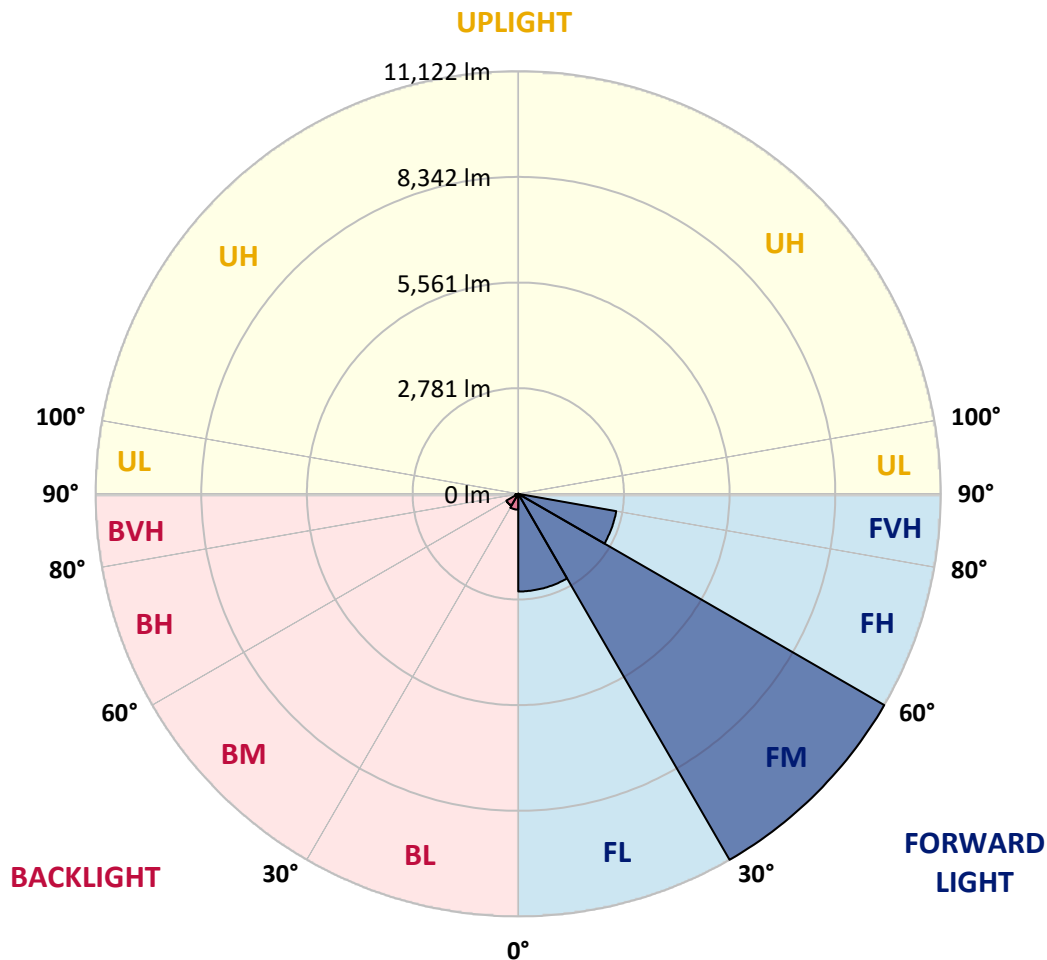
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 CATALOG NUMBER: GLEON-SA5B-827-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.5	14.9			
FM (30°-60°)	11122.0	64.7			
FH (60°-80°)	2617.7	15.2			G2/5000
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	417.3	2.4	B1/500		
BM (30°-60°)	360.4	2.1	B1/1000		
BH (60°-80°)	79.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P324919

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6
2.5°	4831.0	4759.0	4761.2	4728.5	4609.0	4515.5	4418.3	4395.2	4243.8	4085.0	3932.0
5°	5666.1	5613.4	5600.8	5537.7	5371.4	5195.5	5006.9	4963.1	4666.9	4341.8	4021.9
7.5°	6095.1	6095.9	6085.5	6062.5	5958.6	5787.8	5557.7	5511.7	5108.6	4620.9	4115.4
10°	5970.4	5998.6	6056.5	6133.0	6212.4	6190.9	6017.9	5976.4	5538.4	4916.4	4219.3
12.5°	5679.5	5683.2	5747.7	5873.2	6101.8	6336.4	6339.4	6325.3	5948.9	5225.2	4333.6
15°	5534.7	5548.8	5572.6	5653.5	5870.2	6245.8	6514.6	6534.6	6325.3	5553.3	4455.4
17.5°	5629.7	5649.8	5629.7	5639.4	5764.8	6102.6	6545.0	6596.2	6654.1	5877.7	4570.4
20°	5887.3	5905.9	5870.2	5830.9	5855.4	6061.0	6523.5	6592.5	6911.7	6165.7	4666.9
22.5°	6234.7	6242.1	6187.9	6123.4	6105.5	6202.0	6541.3	6612.5	7118.1	6426.2	4727.8
25°	6617.0	6623.7	6556.1	6481.9	6439.6	6478.9	6687.5	6741.0	7299.9	6674.9	4762.7
27.5°	7033.4	7039.4	6954.8	6863.4	6814.5	6815.9	6928.8	6985.9	7493.7	6958.5	4790.9
30°	7473.6	7470.7	7392.7	7265.8	7203.4	7201.9	7276.2	7334.1	7774.3	7322.2	4829.5
32.5°	7968.0	7962.1	7851.5	7694.1	7623.6	7634.0	7700.0	7733.4	8122.4	7709.7	4898.5
35°	8619.0	8601.9	8434.9	8239.7	8109.8	8106.1	8161.8	8188.5	8566.3	8178.8	5013.6
37.5°	9463.8	9448.2	9221.8	8938.2	8755.6	8687.3	8753.4	8787.5	9199.5	8780.8	5198.4
40°	10296.7	10281.1	10146.7	9886.9	9605.6	9441.5	9493.5	9529.8	9990.1	9511.3	5431.5
42.5°	10871.2	10884.6	10931.3	10952.9	10689.3	10344.9	10368.7	10406.5	10820.7	10292.2	5698.0
45°	11022.6	11051.6	11315.9	11834.7	11933.5	11664.7	11416.1	11436.8	11664.7	11073.1	5964.5
47.5°	10567.6	10621.0	11131.0	12096.0	12931.9	13121.9	12651.3	12623.8	12474.6	11704.8	6153.8
50°	9533.6	9582.5	10243.2	11670.7	13234.7	14513.0	14131.5	14050.5	13185.0	12082.7	6220.6
52.5°	8037.0	8096.4	8633.1	10331.5	12663.9	15133.6	15532.9	15465.4	13706.1	12112.4	6231.7
55°	5675.7	5747.7	6315.6	7918.3	10854.9	14639.9	16029.6	16009.5	14138.9	12033.7	6255.5
57.5°	3189.7	3241.7	3854.1	5076.0	7950.2	12751.5	15510.7	15643.5	14400.2	11897.1	6291.1
60°	1416.3	1430.4	1747.4	2526.8	4654.3	9745.1	14025.3	14249.5	14176.0	11714.5	6351.2
62.5°	785.4	773.5	773.5	1050.4	2022.8	6032.8	11436.8	11807.3	13219.1	11498.5	6354.2
65°	615.4	604.2	572.3	576.8	770.5	2677.5	7919.8	8578.2	11402.0	10865.3	6140.4
67.5°	521.8	512.2	480.3	467.7	478.8	883.4	4351.5	5035.1	8651.7	9219.6	5318.7
70°	440.9	434.3	417.9	402.3	374.1	436.5	1665.0	2129.7	5331.3	6133.0	3630.7
72.5°	354.8	351.9	357.8	344.4	310.3	291.0	569.4	689.6	2394.7	2736.9	1495.8
75°	305.8	304.3	307.3	294.0	255.4	202.7	289.5	316.2	675.5	669.6	302.9
77.5°	198.9	201.2	254.6	248.7	219.7	135.1	149.9	161.8	204.9	153.7	92.0
80°	126.9	125.5	129.2	206.4	197.5	103.2	75.0	78.7	98.7	75.7	44.5
82.5°	77.2	75.7	84.6	96.5	99.5	72.0	46.0	46.8	61.6	49.0	23.8
85°	6.7	8.9	51.2	47.5	34.1	22.3	22.3	23.8	32.7	29.0	13.4
87.5°	0.0	0.0	8.9	13.4	7.4	8.2	8.2	8.9	12.6	12.6	6.7
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: P324919

CATALOG NUMBER: GLEON-SA5B-827-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6	3849.6
2.5°	3852.6	3775.4	3619.5	3469.6	3342.6	3220.2	3080.6	2942.5	2878.0	2852.0	2825.3
5°	3859.3	3700.4	3379.0	3055.4	2719.8	2417.7	2160.1	1895.9	1763.7	1705.8	1679.1
7.5°	3868.2	3626.2	3106.6	2563.2	2022.8	1613.1	1255.3	1025.1	925.7	910.1	871.5
10°	3869.7	3536.4	2790.4	2019.8	1356.2	972.4	748.3	629.5	585.7	578.3	565.6
12.5°	3872.7	3430.2	2439.2	1495.8	904.1	650.3	541.1	501.8	489.9	489.2	489.2
15°	3881.6	3318.9	2074.8	1077.8	649.5	515.2	475.1	459.5	455.0	457.3	456.5
17.5°	3881.6	3187.5	1717.0	803.2	524.8	463.2	440.9	430.5	429.1	431.3	432.0
20°	3853.4	3027.9	1388.9	625.0	465.4	429.8	409.8	400.1	396.4	397.9	398.6
22.5°	3785.8	2831.9	1121.6	517.4	426.1	399.4	377.8	363.0	357.1	357.8	357.8
25°	3680.4	2599.6	877.4	447.6	394.2	366.7	341.5	324.4	320.7	319.9	321.4
27.5°	3545.3	2342.7	698.5	394.2	356.3	330.3	305.1	291.0	288.0	288.8	289.5
30°	3412.4	2076.3	550.8	348.9	314.0	289.5	270.2	263.5	263.5	265.7	266.5
32.5°	3290.7	1820.2	435.7	309.5	276.1	253.9	242.7	242.0	245.7	247.2	247.9
35°	3186.0	1583.4	360.8	279.1	246.4	227.1	223.4	226.4	230.9	233.8	234.6
37.5°	3111.8	1371.8	315.5	253.9	223.4	207.8	207.1	213.0	219.0	225.7	227.1
40°	3080.6	1192.9	284.3	231.6	204.9	193.0	190.8	198.9	210.1	219.7	221.2
42.5°	3054.6	1046.7	257.6	210.1	190.0	173.0	172.2	182.6	196.0	205.6	207.8
45°	3032.4	929.4	233.1	187.1	170.7	148.5	150.7	164.1	174.4	184.8	187.1
47.5°	2986.3	832.9	206.4	162.6	141.0	126.9	131.4	143.3	151.4	167.0	169.2
50°	2903.9	754.2	178.9	132.9	115.1	109.9	116.5	124.7	135.1	148.5	149.9
52.5°	2848.3	694.8	155.1	111.3	95.0	96.5	103.2	106.2	112.1	117.3	115.8
55°	2816.3	662.1	135.8	96.5	80.9	85.4	86.9	83.1	80.2	75.0	72.7
57.5°	2812.6	632.5	121.0	83.9	71.3	73.5	68.3	55.7	45.3	39.3	37.9
60°	2806.7	596.1	109.1	70.5	63.1	60.1	49.0	30.4	21.5	20.0	20.0
62.5°	2742.1	539.7	100.2	59.4	53.4	45.3	28.2	14.1	11.9	12.6	12.6
65°	2536.5	461.0	91.3	48.3	42.3	32.7	14.1	8.2	4.5	5.2	5.2
67.5°	2156.4	367.4	81.7	37.1	31.9	20.8	8.2	3.7	0.0	0.0	0.0
70°	1443.8	227.9	69.0	26.0	20.8	12.6	5.9	0.7	0.0	0.0	0.0
72.5°	553.8	123.2	55.7	15.6	13.4	8.9	3.7	0.0	0.0	0.0	0.0
75°	124.7	80.9	38.6	11.1	9.7	5.9	1.5	0.0	0.0	0.0	0.0
77.5°	47.5	58.6	22.3	7.4	6.7	3.7	0.0	0.0	0.0	0.0	0.0
80°	23.0	34.9	10.4	4.5	3.7	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	11.9	13.4	4.5	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	6.7	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.2	0.7	0.7	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)