

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: P650729

Luminaire Tested: **GALN-SA2C-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA 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: 9741.3 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

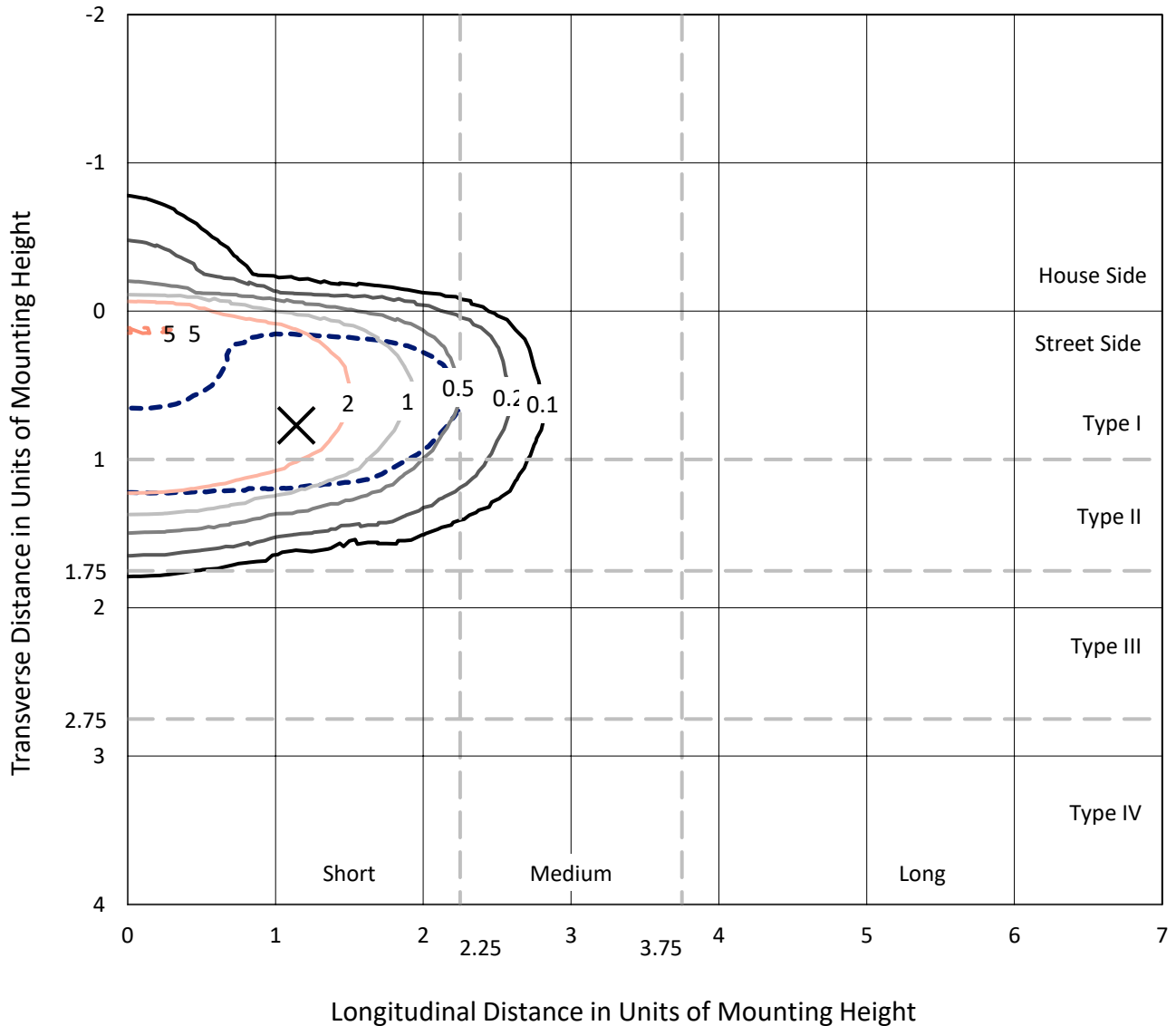
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650729  
 CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

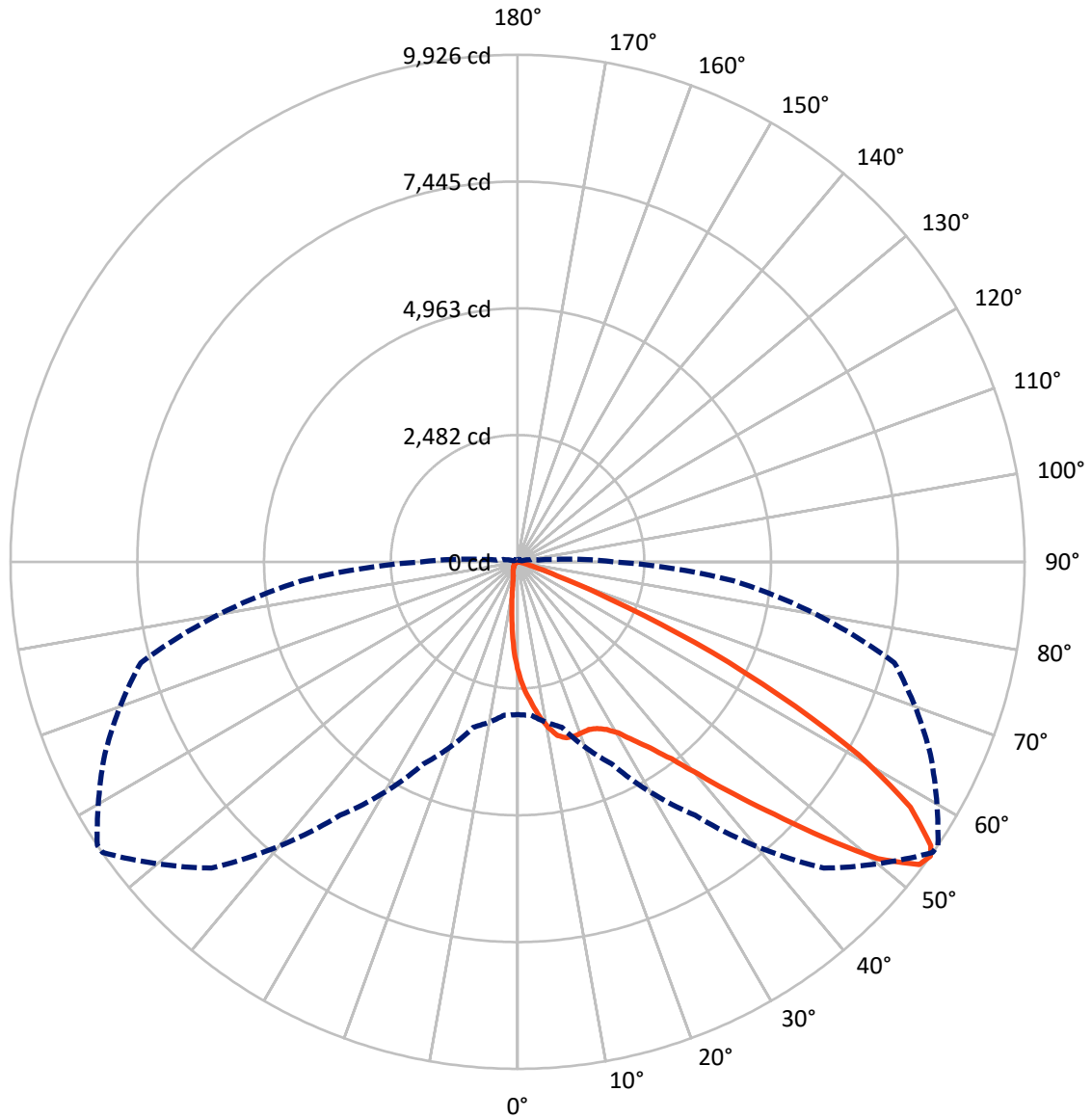
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P650729  
CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P650729  
 CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

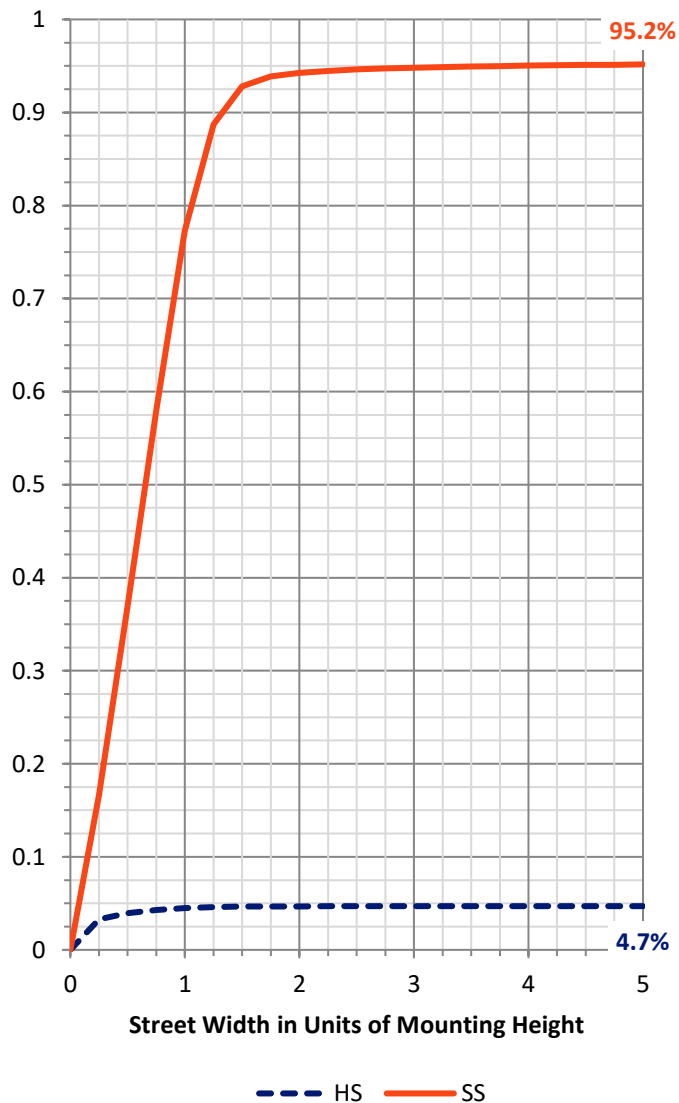
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	460.7	0.0	460.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	9280.7	0.0	9280.7
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	9741.3	0.0	9741.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	2.0
10°-20°	517.0	5.3
20°-30°	895.4	9.2
30°-40°	1545.6	15.9
40°-50°	2630.7	27.0
50°-60°	2603.4	26.7
60°-70°	1188.2	12.2
70°-80°	152.6	1.6
80°-90°	17.2	0.2
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°	9741.3	100.0
0°-180°	9741.3	100.0

**Coefficient of Utilization**



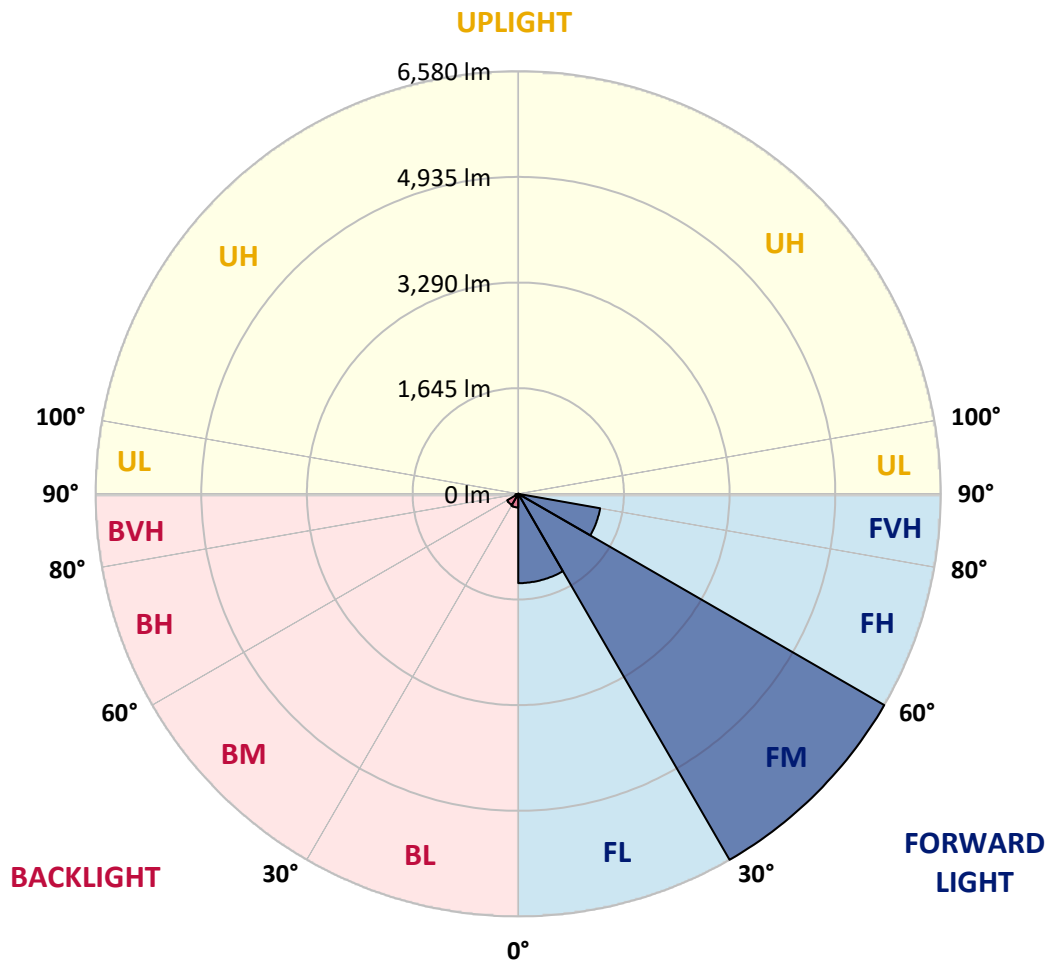
REPORT NUMBER: P650729  
 CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.6	14.3			
FM (30°-60°)	6580.0	67.5			
FH (60°-80°)	1294.7	13.3			G1/1800
FVH (80°-90°)	15.3	0.2			G1/100
BL (0°-30°)	213.0	2.2	B1/500		
BM (30°-60°)	199.6	2.0	B0/220		
BH (60°-80°)	46.1	0.5	B0/110		G0/110
BVH (80°-90°)	1.8	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-G1**

Type II Short





REPORT NUMBER: P650729

CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2750.5	2731.4	2705.2	2684.7	2636.8	2567.7	2494.8	2494.8	2424.5	2326.5	2226.7
5°	3172.4	3159.9	3134.3	3081.8	3027.9	2931.2	2784.6	2759.0	2633.5	2456.1	2269.4
7.5°	3344.0	3349.9	3351.2	3337.3	3311.8	3216.5	3071.2	3053.5	2853.0	2615.1	2325.3
10°	3179.7	3208.6	3236.8	3294.0	3374.8	3397.8	3315.7	3297.3	3100.1	2776.1	2385.7
12.5°	2935.2	2950.9	2966.7	3056.8	3219.1	3405.0	3491.2	3490.5	3323.5	2936.4	2462.6
15°	2821.5	2835.3	2836.6	2876.6	3017.3	3288.1	3566.1	3575.9	3541.8	3134.3	2545.5
17.5°	2845.1	2856.3	2847.1	2857.0	2930.5	3159.3	3557.5	3590.4	3718.6	3324.2	2620.4
20°	2999.6	3021.3	2985.8	2958.1	2980.5	3125.1	3528.7	3574.7	3843.5	3509.6	2688.7
22.5°	3277.0	3288.7	3244.1	3168.5	3129.0	3196.7	3520.8	3566.1	3949.9	3661.4	2728.1
25°	3585.2	3581.2	3531.9	3447.2	3364.3	3341.3	3572.7	3613.4	4038.0	3798.1	2740.0
27.5°	3893.4	3905.2	3822.4	3717.2	3618.0	3558.2	3689.0	3719.2	4137.2	3953.9	2754.4
30°	4251.6	4232.5	4151.0	4030.7	3917.0	3833.6	3876.3	3884.8	4274.0	4160.3	2792.5
32.5°	4717.6	4664.9	4573.6	4363.3	4281.8	4140.5	4151.0	4161.5	4440.2	4364.6	2838.5
35°	5349.8	5347.2	5168.4	4885.1	4686.6	4511.2	4465.2	4473.7	4691.9	4668.2	2940.4
37.5°	6110.9	6121.4	5917.6	5632.4	5267.0	4988.3	4893.7	4895.0	5074.4	5087.5	3095.6
40°	6730.6	6758.2	6636.7	6444.1	6083.3	5647.5	5488.5	5474.0	5612.0	5595.6	3317.0
42.5°	6997.5	7023.1	7068.4	7135.5	6937.0	6577.5	6202.2	6222.0	6264.0	6149.0	3565.4
45°	6866.7	6907.4	7085.5	7499.6	7686.2	7565.3	7117.7	7048.8	6870.6	6750.4	3815.2
47.5°	6321.8	6421.0	6718.8	7408.2	8061.5	8470.3	8150.9	8059.6	7477.9	7189.4	3974.2
50°	5426.0	5431.9	5846.6	6728.0	7867.0	9041.4	9205.8	9137.4	8043.7	7435.9	4054.4
52.5°	3933.5	4063.0	4442.8	5463.5	7024.4	8954.6	9878.0	9849.8	8627.4	7562.0	4170.1
54°	2990.3	3015.3	3353.2	4366.0	6056.3	8478.2	9919.5	9926.1	8917.2	7638.2	4238.5
55°	2451.4	2391.6	2746.5	3719.2	5395.8	8056.9	9784.1	9815.6	9047.3	7677.7	4289.0
57.5°	1162.0	1162.6	1434.1	1961.8	3379.5	6256.1	8956.6	9068.3	9061.8	7745.4	4444.8
60°	588.2	592.1	651.9	905.7	1669.4	4158.9	7405.6	7671.8	8364.5	7755.2	4496.1
62.5°	411.4	406.8	397.0	435.7	702.6	2113.6	5513.4	5744.8	7106.5	7379.9	4333.1
65°	352.3	342.5	314.8	308.9	354.9	841.9	3434.0	3811.2	5426.0	6390.2	3869.1
67.5°	301.0	297.0	272.1	257.0	251.0	366.8	1771.9	1970.4	3708.7	4593.4	2930.5
70°	255.7	253.7	238.6	219.5	203.1	219.5	657.2	814.3	2067.0	2473.1	1382.8
72.5°	207.6	209.7	212.3	188.0	170.9	155.8	280.6	326.6	864.9	884.0	483.7
75°	182.1	180.1	180.1	163.7	142.6	115.6	154.4	166.3	264.8	245.8	112.4
77.5°	128.2	123.5	144.6	134.7	118.9	82.2	88.1	93.4	109.8	94.0	52.6
80°	88.7	88.7	92.7	120.9	107.1	59.8	53.9	57.9	65.1	55.8	30.2
82.5°	50.0	51.3	60.5	64.4	62.4	40.1	35.5	36.2	43.4	38.1	19.1
85°	5.9	9.8	34.8	34.1	25.7	17.7	19.7	20.4	26.9	23.6	11.2
87.5°	0.7	1.3	7.2	9.2	6.6	7.2	7.2	7.2	9.2	10.5	7.9
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: P650729

CATALOG NUMBER: GALN-SA2C-840-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2	2164.2
2.5°	2172.8	2122.9	2003.9	1865.8	1777.8	1634.5	1513.5	1426.2	1404.5	1362.4	1375.0
5°	2170.1	2066.3	1823.8	1567.5	1294.0	1090.4	938.6	818.9	766.3	731.5	707.2
7.5°	2171.5	2009.1	1620.0	1211.9	885.3	685.5	544.8	471.9	423.3	402.8	405.5
10°	2175.4	1944.7	1383.4	897.8	597.4	443.0	356.8	322.0	305.6	303.0	302.3
12.5°	2184.6	1874.4	1157.4	666.4	418.0	322.0	289.2	277.4	272.1	272.1	270.1
15°	2194.5	1796.9	969.4	495.5	322.0	276.7	261.6	255.7	252.4	252.4	251.7
17.5°	2194.5	1707.5	793.9	384.5	277.4	254.3	242.5	234.6	232.0	232.0	231.4
20°	2180.6	1603.6	638.2	309.6	251.7	233.3	221.5	212.9	209.7	208.3	207.6
22.5°	2132.7	1464.9	508.0	266.2	230.7	214.9	199.8	189.9	187.3	186.0	186.6
25°	2047.2	1308.5	402.3	234.0	211.6	192.6	179.4	172.2	169.5	169.5	170.2
27.5°	1959.2	1144.9	318.7	209.7	188.6	171.6	161.1	156.4	155.8	157.8	158.4
30°	1877.7	980.6	258.3	189.9	168.3	153.8	146.6	145.2	145.2	145.9	146.6
32.5°	1787.0	836.6	216.2	172.8	151.8	139.4	135.4	135.4	136.7	136.7	138.0
35°	1729.9	713.1	189.9	156.4	139.4	128.8	126.2	126.8	128.8	131.4	132.8
37.5°	1698.9	614.5	172.8	143.3	127.5	120.3	117.7	118.9	123.5	128.2	128.8
40°	1701.5	540.3	159.0	132.1	118.3	110.4	108.4	112.4	117.0	121.6	122.3
42.5°	1730.4	485.0	145.9	118.9	110.4	99.2	98.6	102.5	104.5	109.1	109.8
45°	1764.7	445.0	132.1	105.1	96.0	86.1	86.8	90.1	92.7	99.9	101.2
47.5°	1775.2	417.3	116.3	89.4	78.9	75.6	76.3	78.2	83.4	90.1	90.7
50°	1787.0	400.2	101.2	75.6	67.0	66.4	67.0	68.4	71.7	74.3	73.6
52.5°	1837.6	399.6	88.7	65.7	57.2	58.5	59.1	58.5	55.8	51.9	50.6
54°	1884.9	401.6	82.8	61.1	52.6	54.6	53.9	50.6	44.1	40.1	38.1
55°	1923.0	403.5	79.6	57.9	50.0	50.6	51.3	44.7	36.2	32.2	30.9
57.5°	1998.0	399.0	71.7	50.6	44.1	41.4	40.8	29.6	19.7	17.1	15.8
60°	1960.5	360.2	65.1	43.4	37.4	33.6	27.6	16.4	9.8	7.2	7.2
62.5°	1813.3	305.6	57.9	35.5	30.9	25.7	14.5	9.2	4.6	2.6	1.9
65°	1622.0	257.0	51.9	28.3	24.3	16.4	7.9	5.9	1.9	0.0	0.0
67.5°	1206.0	190.6	44.1	22.4	18.4	10.5	5.3	3.3	0.7	0.0	0.0
70°	558.7	116.3	37.4	17.1	13.1	7.9	4.0	1.9	0.0	0.0	0.0
72.5°	160.4	72.9	30.9	12.4	9.2	6.6	3.3	1.3	0.7	0.0	0.0
75°	55.8	58.5	23.0	9.2	7.2	4.6	2.6	1.3	0.7	0.0	0.0
77.5°	33.6	47.3	14.5	7.9	5.9	4.0	2.6	1.3	0.7	0.7	0.0
80°	19.1	31.5	9.2	6.6	5.3	3.3	1.9	1.3	0.7	0.7	0.0
82.5°	10.5	15.1	7.2	5.9	4.6	3.3	1.9	1.3	0.7	0.7	0.7
85°	8.6	7.9	5.9	5.3	4.0	2.6	1.9	0.7	0.0	0.0	0.0
87.5°	6.6	5.3	5.3	5.3	4.0	2.6	1.9	0.7	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)