

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: P451150

Luminaire Tested: **GALN-SA2A-730-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451150  
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-SA2A-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA 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: 6862 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

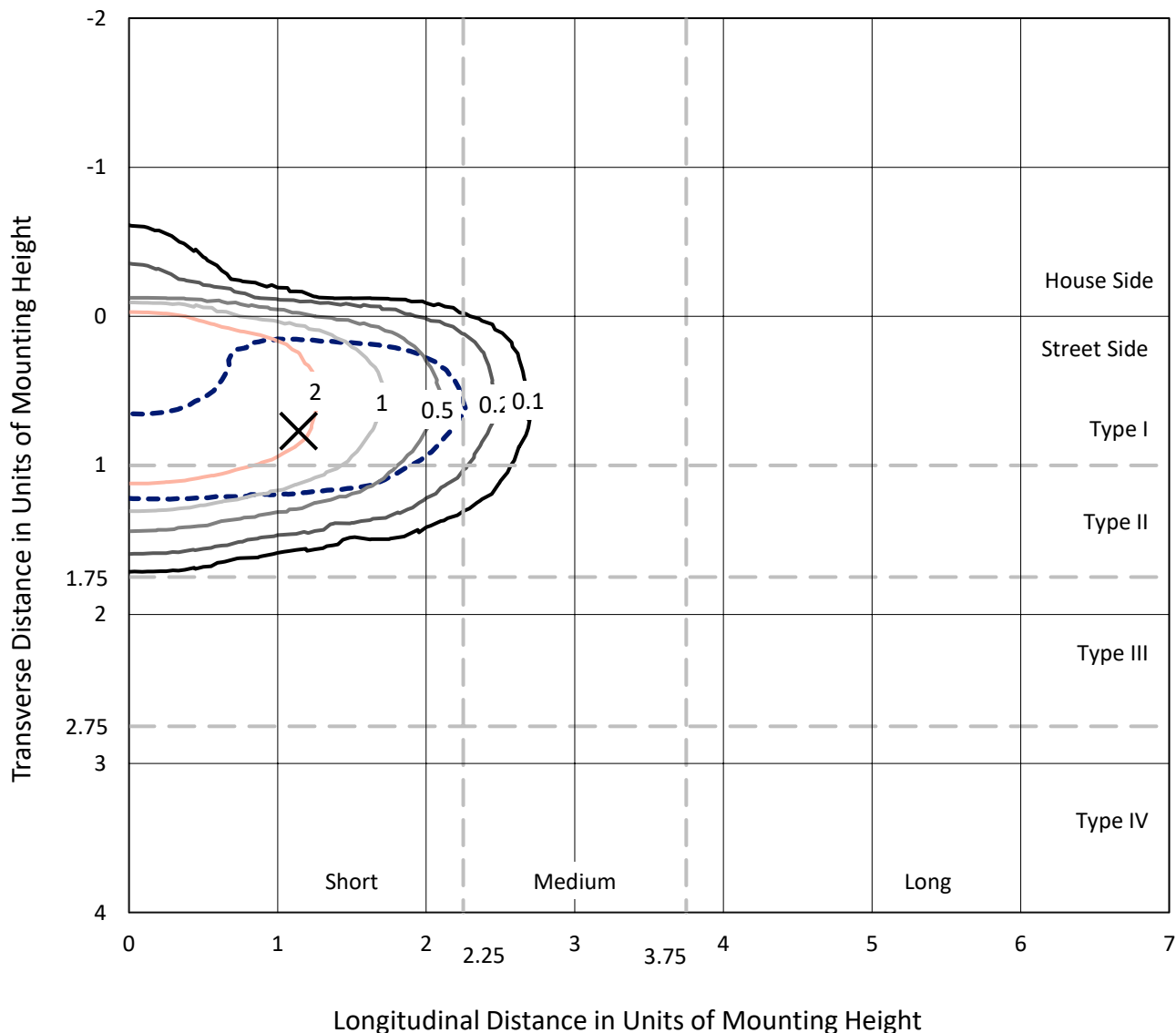
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451150  
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

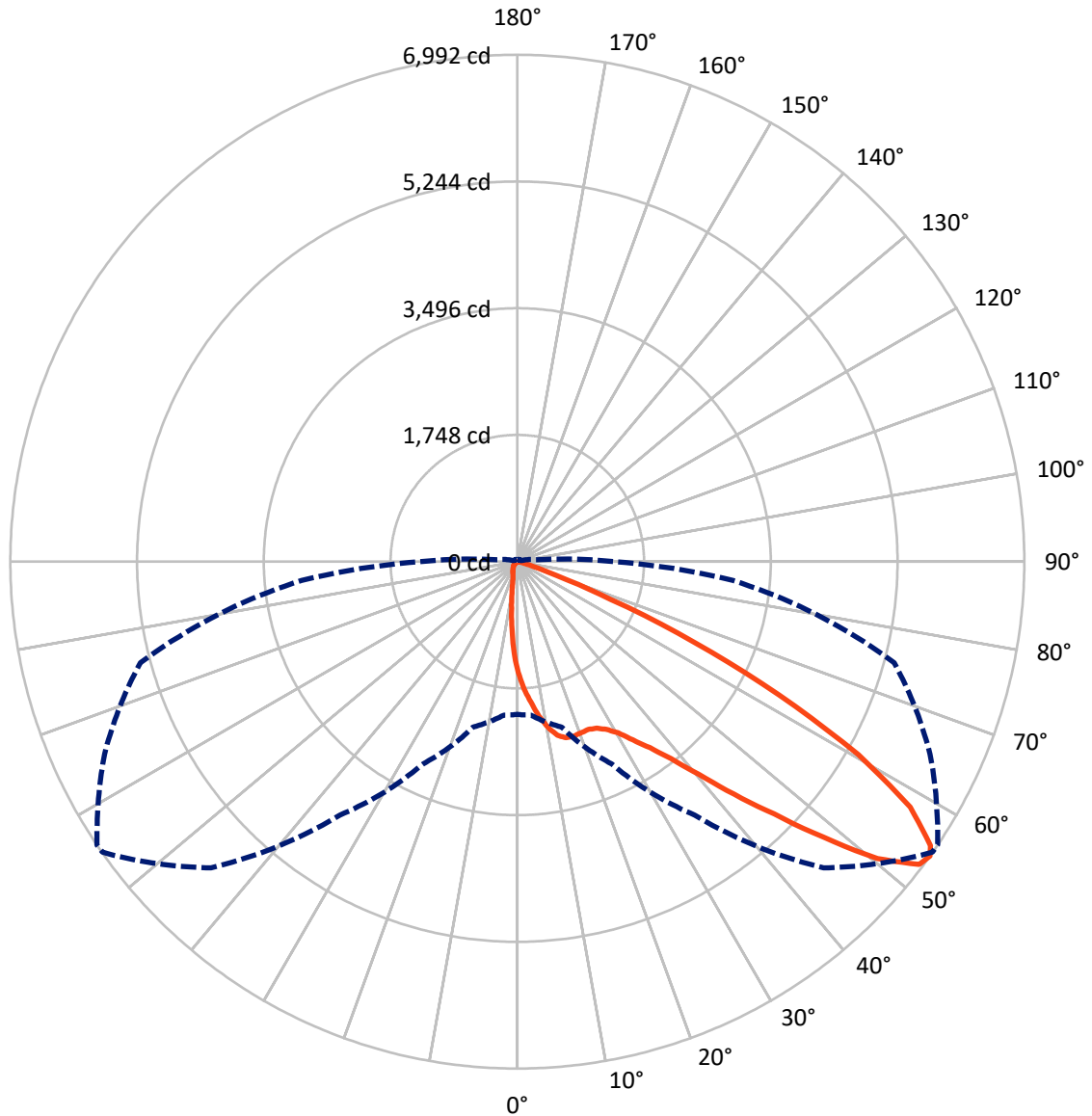
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P451150  
CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P451150  
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

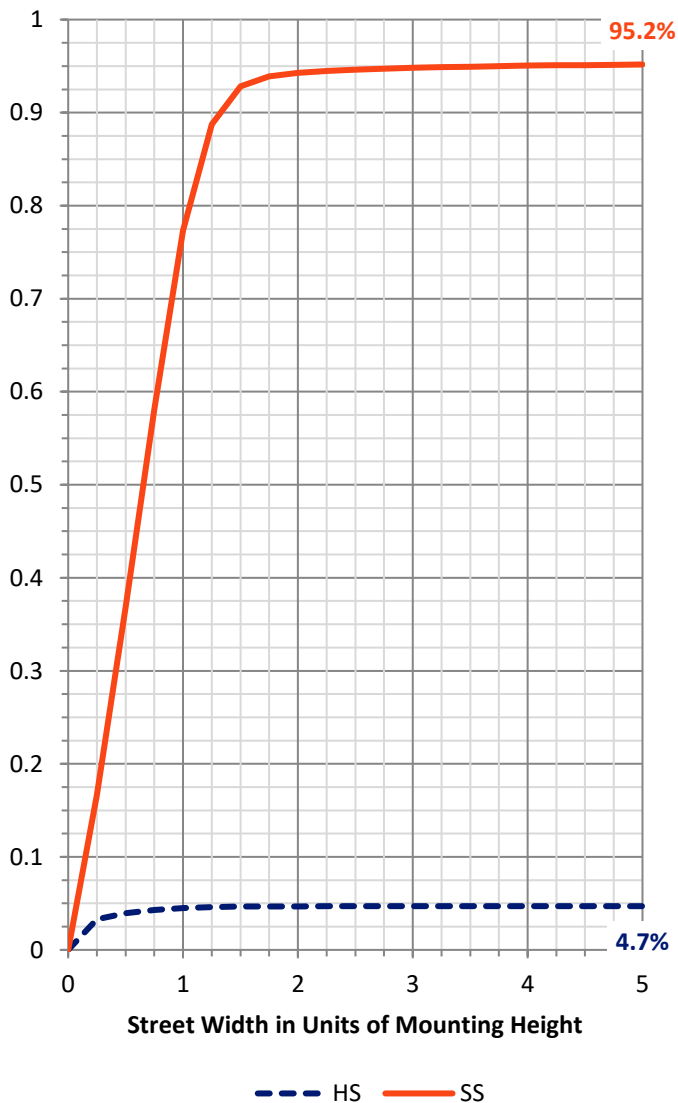
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	324.5	0.0	324.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	6537.5	0.0	6537.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	6862.0	0.0	6862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	2.0
10°-20°	364.2	5.3
20°-30°	630.7	9.2
30°-40°	1088.8	15.9
40°-50°	1853.1	27.0
50°-60°	1833.9	26.7
60°-70°	837.0	12.2
70°-80°	107.5	1.6
80°-90°	12.1	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°	6862.0	100.0
0°-180°	6862.0	100.0

**Coefficient of Utilization**

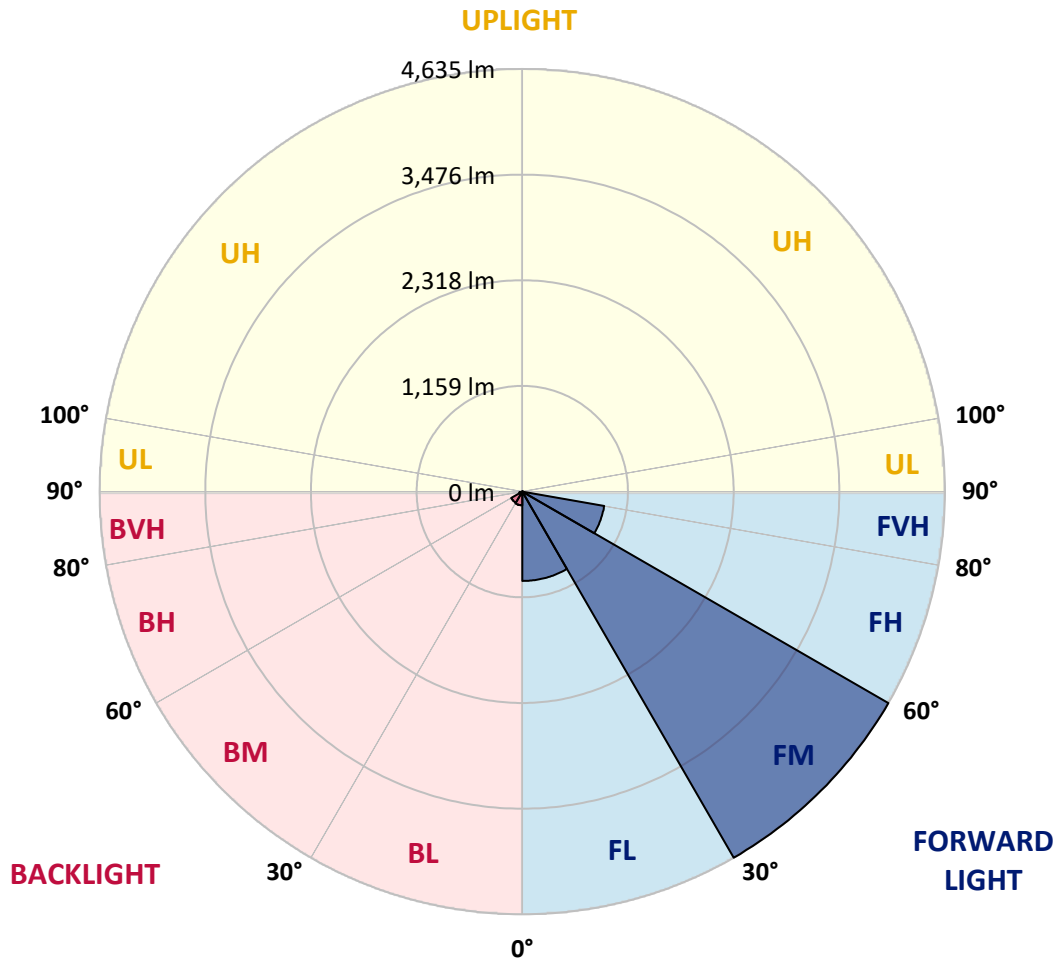


REPORT NUMBER: P451150  
 CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.6	14.3			
FM (30°-60°)	4635.1	67.5			
FH (60°-80°)	912.0	13.3			G1/1800
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	150.1	2.2	B1/500		
BM (30°-60°)	140.6	2.0	B0/220		
BH (60°-80°)	32.5	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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: P451150

CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1937.5	1924.1	1905.6	1891.2	1857.4	1808.8	1757.4	1757.4	1707.9	1638.9	1568.5
5°	2234.7	2225.9	2207.9	2170.8	2132.9	2064.8	1961.6	1943.5	1855.1	1730.1	1598.6
7.5°	2355.6	2359.7	2360.7	2350.9	2332.9	2265.7	2163.4	2150.9	2009.7	1842.1	1638.0
10°	2239.8	2260.2	2280.1	2320.4	2377.3	2393.5	2335.7	2322.7	2183.8	1955.6	1680.6
12.5°	2067.6	2078.7	2089.8	2153.2	2267.6	2398.6	2459.3	2458.8	2341.2	2068.5	1734.7
15°	1987.5	1997.2	1998.2	2026.4	2125.5	2316.2	2512.0	2519.0	2494.9	2207.9	1793.1
17.5°	2004.2	2012.0	2005.6	2012.5	2064.4	2225.5	2506.0	2529.2	2619.4	2341.7	1845.8
20°	2113.0	2128.2	2103.2	2083.8	2099.5	2201.4	2485.7	2518.1	2707.4	2472.2	1894.0
22.5°	2308.3	2316.7	2285.2	2231.9	2204.2	2251.9	2480.1	2512.0	2782.4	2579.2	1921.8
25°	2525.5	2522.7	2488.0	2428.2	2369.9	2353.7	2516.7	2545.4	2844.4	2675.5	1930.1
27.5°	2742.6	2750.9	2692.6	2618.5	2548.6	2506.5	2598.6	2619.9	2914.4	2785.2	1940.3
30°	2994.9	2981.5	2924.1	2839.4	2759.3	2700.5	2730.6	2736.6	3010.7	2930.6	1967.1
32.5°	3323.2	3286.1	3221.8	3073.6	3016.2	2916.7	2924.1	2931.5	3127.8	3074.5	1999.5
35°	3768.5	3766.7	3640.7	3441.2	3301.4	3177.8	3145.4	3151.4	3305.1	3288.4	2071.3
37.5°	4304.6	4312.0	4168.5	3967.6	3710.2	3513.9	3447.2	3448.2	3574.5	3583.8	2180.6
40°	4741.2	4760.7	4675.0	4539.4	4285.2	3978.2	3866.2	3856.0	3953.2	3941.7	2336.6
42.5°	4929.2	4947.2	4979.2	5026.4	4886.6	4633.3	4369.0	4382.9	4412.5	4331.5	2511.6
45°	4837.0	4865.7	4991.2	5282.9	5414.4	5329.2	5013.9	4965.3	4839.8	4755.1	2687.5
47.5°	4453.2	4523.2	4732.9	5218.5	5678.7	5966.7	5741.7	5677.3	5267.6	5064.4	2799.5
50°	3822.2	3826.4	4118.5	4739.4	5541.7	6369.0	6484.7	6436.6	5666.2	5238.0	2856.0
52.5°	2770.8	2862.0	3129.6	3848.6	4948.2	6307.9	6958.3	6938.4	6077.3	5326.9	2937.5
54°	2106.5	2124.1	2362.0	3075.5	4266.2	5972.2	6987.5	6992.1	6281.5	5380.6	2985.7
55°	1726.9	1684.7	1934.7	2619.9	3800.9	5675.5	6892.1	6914.4	6373.2	5408.3	3021.3
57.5°	818.5	819.0	1010.2	1381.9	2380.6	4407.0	6309.3	6388.0	6383.3	5456.0	3131.0
60°	414.4	417.1	459.3	638.0	1175.9	2929.6	5216.7	5404.2	5892.1	5463.0	3167.1
62.5°	289.8	286.6	279.6	306.9	494.9	1488.9	3883.8	4046.8	5006.0	5198.6	3052.3
65°	248.1	241.2	221.8	217.6	250.0	593.1	2419.0	2684.7	3822.2	4501.4	2725.5
67.5°	212.0	209.3	191.7	181.0	176.9	258.3	1248.1	1388.0	2612.5	3235.7	2064.4
70°	180.1	178.7	168.1	154.6	143.1	154.6	463.0	573.6	1456.0	1742.1	974.1
72.5°	146.3	147.7	149.5	132.4	120.4	109.7	197.7	230.1	609.3	622.7	340.7
75°	128.2	126.9	126.9	115.3	100.5	81.5	108.8	117.1	186.6	173.1	79.2
77.5°	90.3	87.0	101.9	94.9	83.8	57.9	62.0	65.7	77.3	66.2	37.0
80°	62.5	62.5	65.3	85.2	75.5	42.1	38.0	40.7	45.8	39.4	21.3
82.5°	35.2	36.1	42.6	45.4	44.0	28.2	25.0	25.5	30.6	26.9	13.4
85°	4.2	6.9	24.5	24.1	18.1	12.5	13.9	14.4	19.0	16.7	7.9
87.5°	0.5	0.9	5.1	6.5	4.6	5.1	5.1	5.1	6.5	7.4	5.6
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: P451150

CATALOG NUMBER: GALN-SA2A-730-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1530.6	1495.4	1411.6	1314.4	1252.3	1151.4	1066.2	1004.6	989.4	959.7	968.5
5°	1528.7	1455.6	1284.7	1104.2	911.6	768.1	661.1	576.9	539.8	515.3	498.1
7.5°	1529.6	1415.3	1141.2	853.7	623.6	482.9	383.8	332.4	298.1	283.8	285.6
10°	1532.4	1369.9	974.5	632.4	420.8	312.0	251.4	226.9	215.3	213.4	213.0
12.5°	1538.9	1320.4	815.3	469.4	294.4	226.9	203.7	195.4	191.7	191.7	190.3
15°	1545.8	1265.7	682.9	349.1	226.9	194.9	184.3	180.1	177.8	177.8	177.3
17.5°	1545.8	1202.8	559.3	270.8	195.4	179.2	170.8	165.3	163.4	163.4	163.0
20°	1536.1	1129.6	449.5	218.1	177.3	164.4	156.0	150.0	147.7	146.8	146.3
22.5°	1502.3	1031.9	357.9	187.5	162.5	151.4	140.7	133.8	131.9	131.0	131.5
25°	1442.1	921.8	283.3	164.8	149.1	135.6	126.4	121.3	119.4	119.4	119.9
27.5°	1380.1	806.5	224.5	147.7	132.9	120.8	113.4	110.2	109.7	111.1	111.6
30°	1322.7	690.7	181.9	133.8	118.5	108.3	103.2	102.3	102.3	102.8	103.2
32.5°	1258.8	589.4	152.3	121.8	106.9	98.1	95.4	95.4	96.3	96.3	97.2
35°	1218.5	502.3	133.8	110.2	98.1	90.7	88.9	89.4	90.7	92.6	93.5
37.5°	1196.8	432.9	121.8	100.9	89.8	84.7	82.9	83.8	87.0	90.3	90.7
40°	1198.6	380.6	112.0	93.1	83.3	77.8	76.4	79.2	82.4	85.6	86.1
42.5°	1219.0	341.7	102.8	83.8	77.8	69.9	69.4	72.2	73.6	76.9	77.3
45°	1243.1	313.4	93.1	74.1	67.6	60.6	61.1	63.4	65.3	70.4	71.3
47.5°	1250.5	294.0	81.9	63.0	55.6	53.2	53.7	55.1	58.8	63.4	63.9
50°	1258.8	281.9	71.3	53.2	47.2	46.8	47.2	48.1	50.5	52.3	51.9
52.5°	1294.4	281.5	62.5	46.3	40.3	41.2	41.7	41.2	39.4	36.6	35.6
54°	1327.8	282.9	58.3	43.1	37.0	38.4	38.0	35.6	31.0	28.2	26.9
55°	1354.6	284.3	56.0	40.7	35.2	35.6	36.1	31.5	25.5	22.7	21.8
57.5°	1407.4	281.0	50.5	35.6	31.0	29.2	28.7	20.8	13.9	12.0	11.1
60°	1381.0	253.7	45.8	30.6	26.4	23.6	19.4	11.6	6.9	5.1	5.1
62.5°	1277.3	215.3	40.7	25.0	21.8	18.1	10.2	6.5	3.2	1.9	1.4
65°	1142.6	181.0	36.6	19.9	17.1	11.6	5.6	4.2	1.4	0.0	0.0
67.5°	849.5	134.3	31.0	15.7	13.0	7.4	3.7	2.3	0.5	0.0	0.0
70°	393.5	81.9	26.4	12.0	9.3	5.6	2.8	1.4	0.0	0.0	0.0
72.5°	113.0	51.4	21.8	8.8	6.5	4.6	2.3	0.9	0.5	0.0	0.0
75°	39.4	41.2	16.2	6.5	5.1	3.2	1.9	0.9	0.5	0.0	0.0
77.5°	23.6	33.3	10.2	5.6	4.2	2.8	1.9	0.9	0.5	0.5	0.0
80°	13.4	22.2	6.5	4.6	3.7	2.3	1.4	0.9	0.5	0.5	0.0
82.5°	7.4	10.6	5.1	4.2	3.2	2.3	1.4	0.9	0.5	0.5	0.5
85°	6.0	5.6	4.2	3.7	2.8	1.9	1.4	0.5	0.0	0.0	0.0
87.5°	4.6	3.7	3.7	3.7	2.8	1.9	1.4	0.5	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)