

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: P454538

Luminaire Tested: **GALN-SA5C-827-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18723 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G4

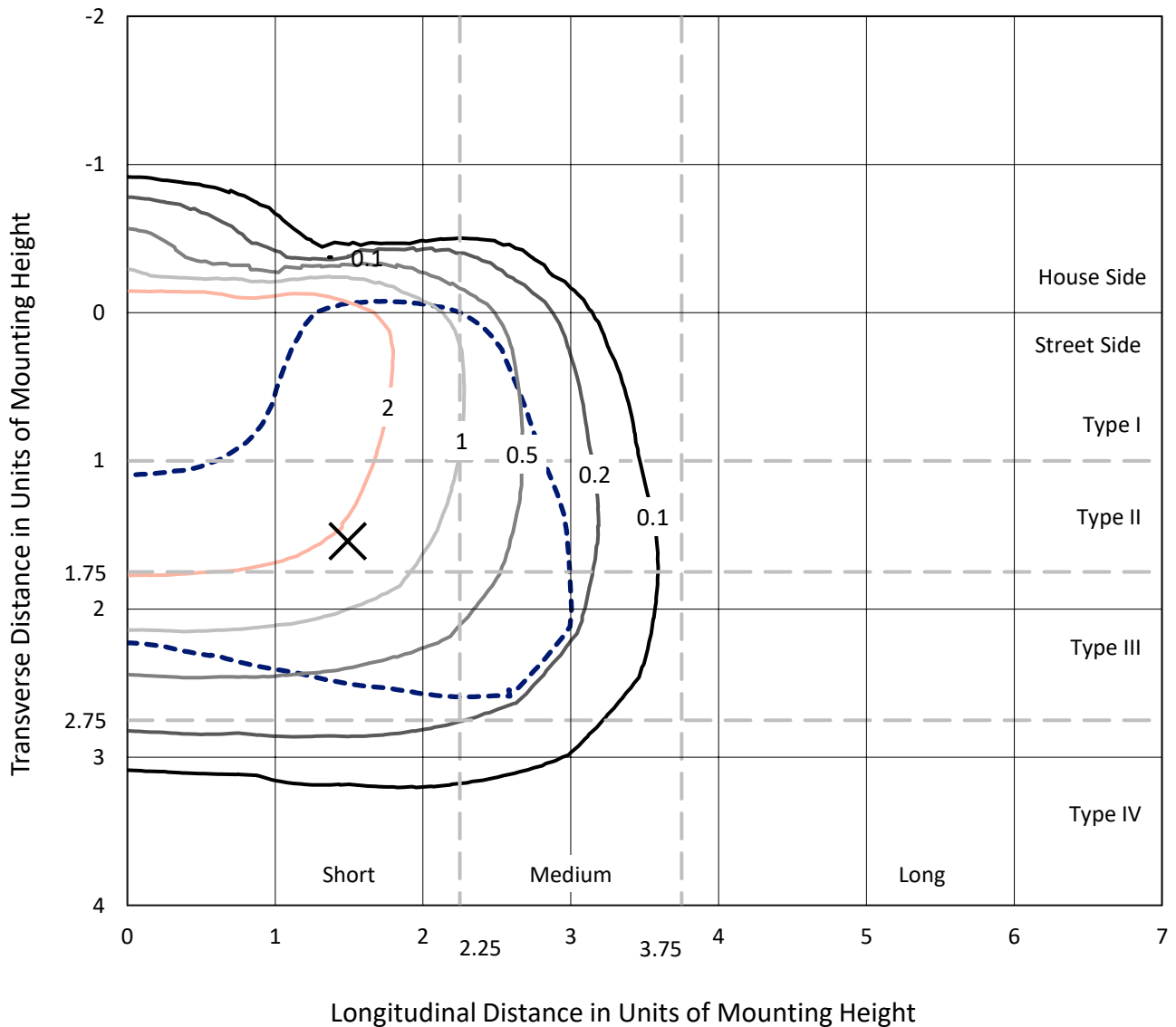
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454538  
 CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

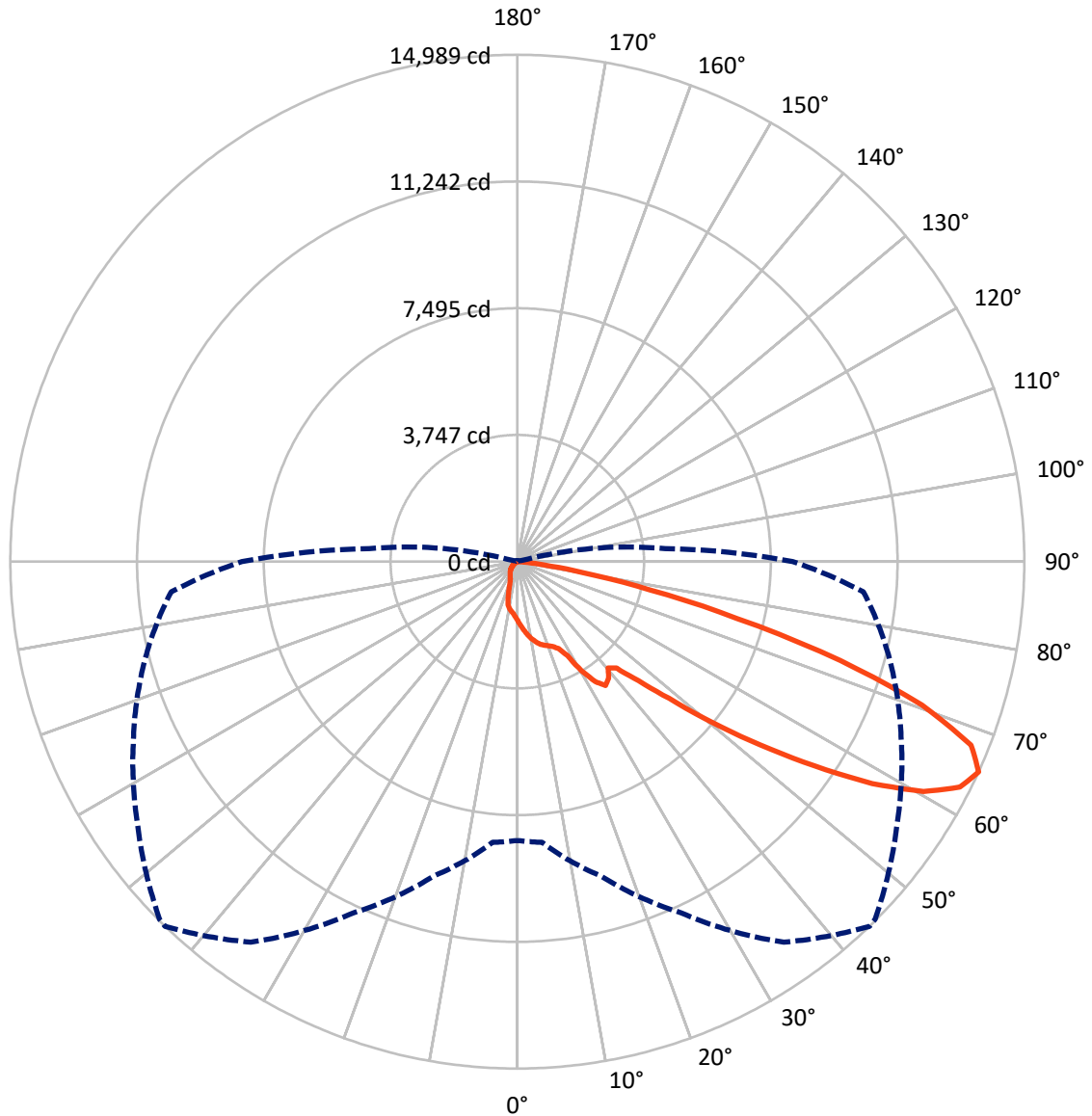
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type III - Short - N/A

REPORT NUMBER: P454538  
CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P454538  
 CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

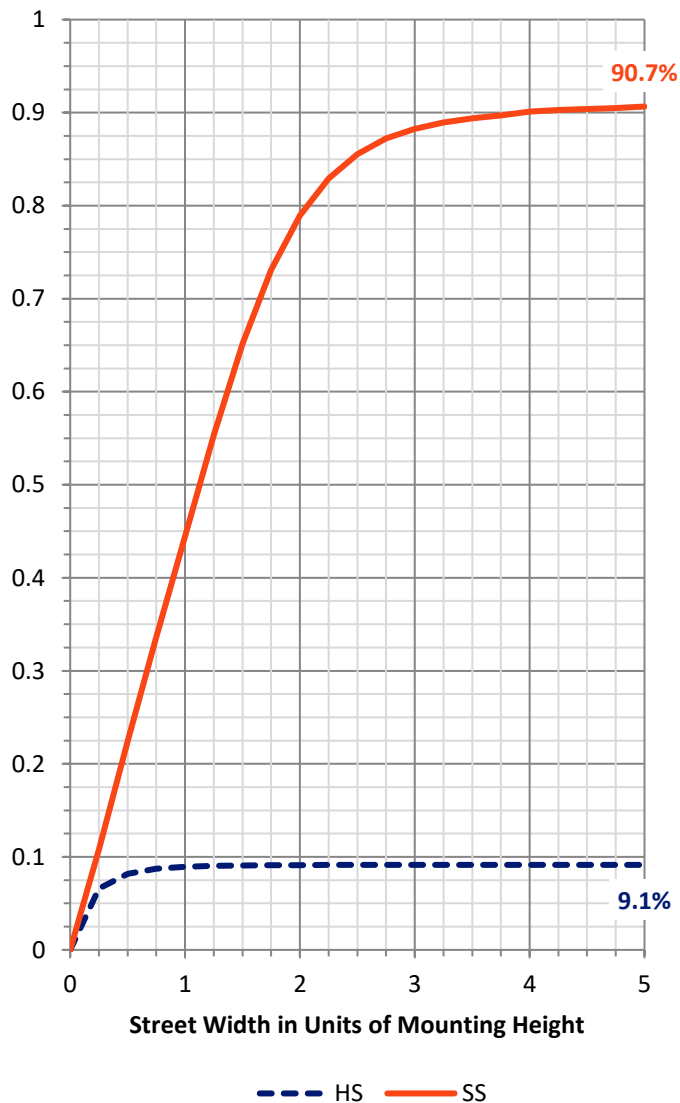
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1725.0	0.0	1725.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	16998.0	0.0	16998.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	18723.0	0.0	18723.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	0.9
10°-20°	521.6	2.8
20°-30°	884.5	4.7
30°-40°	1470.6	7.9
40°-50°	2567.7	13.7
50°-60°	5016.4	26.8
60°-70°	5820.2	31.1
70°-80°	2119.4	11.3
80°-90°	149.3	0.8
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°	18723.0	100.0
0°-180°	18723.0	100.0



REPORT NUMBER: P454538

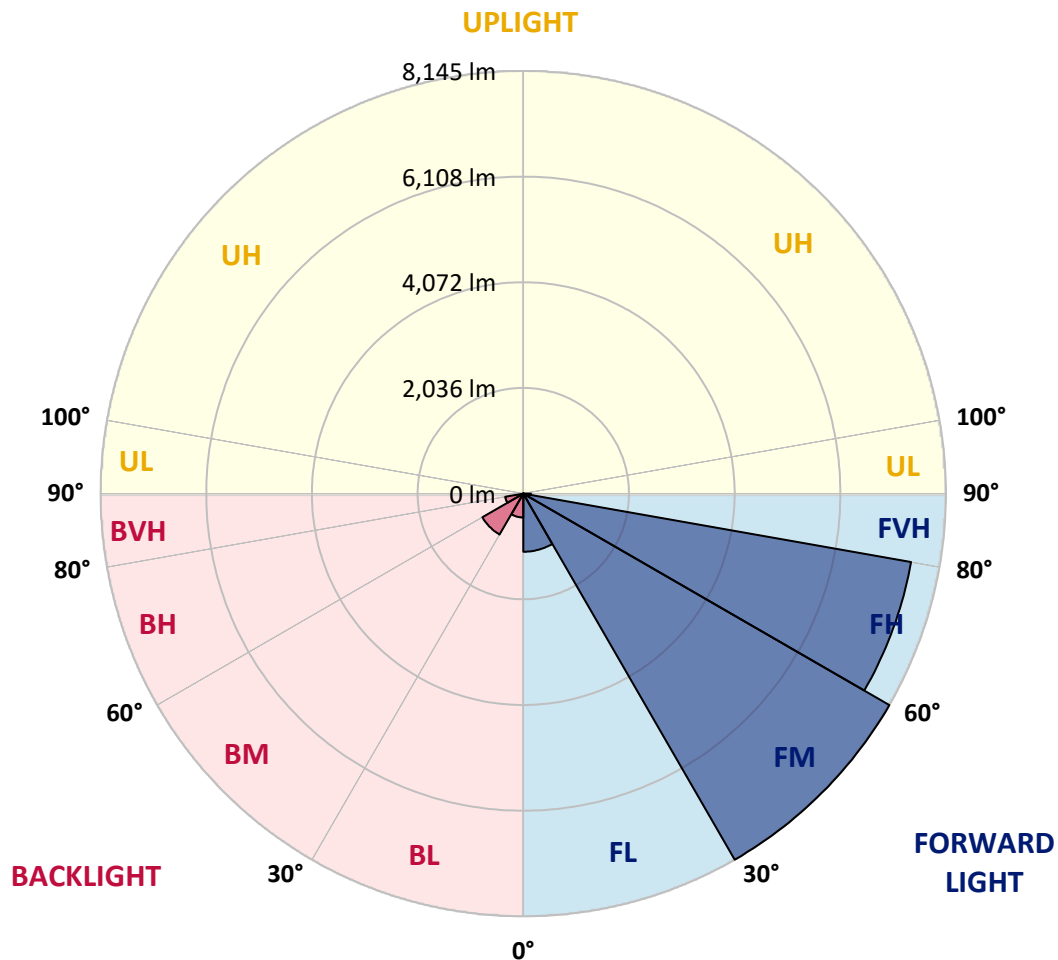
CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.8	6.0			
FM (30°-60°)	8144.5	43.5			
FH (60°-80°)	7586.3	40.5			G4/12000
FVH (80°-90°)	147.3	0.8			G2/225
BL (0°-30°)	459.6	2.5	B1/500		
BM (30°-60°)	910.1	4.9	B1/1000		
BH (60°-80°)	353.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G4**

Type III Short





REPORT NUMBER: P454538

CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6
2.5°	1961.4	1952.9	1948.6	1925.7	1908.5	1887.1	1887.1	1859.9	1828.4	1794.1	1762.6
5°	2180.3	2166.0	2147.4	2127.4	2087.3	2030.1	2030.1	1972.9	1907.1	1848.4	1784.0
7.5°	2390.6	2377.8	2346.3	2307.7	2241.9	2181.8	2177.5	2094.5	2015.8	1927.1	1835.5
10°	2575.2	2565.2	2538.0	2463.6	2394.9	2316.3	2314.8	2221.8	2130.3	2021.5	1908.5
12.5°	2704.0	2705.4	2669.6	2598.1	2509.4	2435.0	2429.3	2337.7	2241.9	2124.5	1985.8
15°	2795.5	2795.5	2758.3	2678.2	2598.1	2532.3	2526.6	2446.4	2347.7	2220.4	2070.2
17.5°	2821.3	2829.9	2789.8	2718.3	2653.9	2596.7	2595.2	2528.0	2449.3	2326.3	2156.0
20°	2811.3	2819.8	2788.4	2732.6	2688.2	2655.3	2651.0	2623.8	2550.9	2435.0	2247.6
22.5°	2789.8	2798.4	2775.5	2742.6	2721.1	2731.1	2724.0	2746.9	2708.3	2568.0	2356.3
25°	2794.1	2802.7	2785.5	2766.9	2785.5	2847.0	2865.6	2964.3	2930.0	2736.9	2473.6
27.5°	2928.6	2945.7	2921.4	2930.0	2995.8	3138.9	3174.7	3344.9	3193.2	2951.5	2656.7
30°	3227.6	3216.1	3170.4	3211.8	3440.8	3744.1	3734.0	3706.9	3469.4	3199.0	2874.2
32.5°	3499.4	3489.4	3486.5	3665.4	4080.3	4227.6	4220.5	3957.2	3716.9	3482.2	3088.8
35°	3609.6	3570.9	3562.4	3995.9	4689.7	4495.2	4450.8	4060.2	4017.3	3791.3	3307.7
37.5°	3941.5	3914.3	3781.3	4050.2	4446.5	4382.1	4347.8	4237.6	4337.8	4064.5	3555.2
40°	4625.3	4549.5	4429.3	4166.1	4101.7	4128.9	4163.2	4465.1	4716.9	4437.9	3885.7
42.5°	5475.2	5458.0	5234.8	4744.1	4262.0	4299.2	4343.5	4940.1	5262.0	5000.2	4425.1
45°	6495.2	6519.6	6197.7	5618.2	4985.9	5017.4	5081.7	5641.1	6000.2	5874.3	5273.4
47.5°	7422.3	7403.7	7295.0	6692.7	6108.9	6038.8	6143.3	6541.0	7021.7	7041.7	6326.4
50°	8355.1	8453.8	8292.1	8056.1	7622.6	7475.2	7436.6	7631.2	8363.7	8267.8	7591.1
52.5°	9695.6	9747.1	9443.8	9383.7	9482.5	9004.6	8966.0	9013.2	9668.5	9339.4	8538.2
55°	10538.3	10508.3	10395.2	10864.5	11255.1	10658.5	10609.8	10419.6	10751.5	10096.2	9449.6
57.5°	10804.4	10847.3	11110.6	11958.9	12883.2	12376.7	12288.0	11747.2	11532.6	10801.5	10287.9
60°	10685.7	10764.3	11332.3	12594.2	13876.0	13800.2	13724.4	12815.9	12093.4	11391.0	10875.9
62.5°	9840.1	9950.3	10858.8	12481.1	14212.3	14685.8	14591.4	13482.6	12466.8	11677.1	10978.9
65°	8246.4	8327.9	9632.7	11455.4	13734.4	14989.1	14954.8	13691.5	12525.5	11415.3	10273.6
67.5°	5878.6	6156.2	7365.1	9654.1	12320.9	14471.2	14529.9	13441.1	11974.7	10283.6	8508.2
70°	3695.4	3884.3	4751.2	6911.6	9877.3	12695.7	12888.9	12295.2	10392.4	8016.0	5695.5
72.5°	1762.6	1902.8	2520.8	4375.0	6971.6	9988.9	10142.0	10093.4	8036.1	5050.3	2938.6
75°	785.4	838.4	1203.2	2233.3	4500.9	6714.1	7110.4	7176.2	5021.6	2470.8	1143.1
77.5°	400.6	402.0	563.7	1081.6	2247.6	4005.9	4084.6	4314.9	2722.6	1088.7	397.7
80°	213.2	227.5	299.0	510.7	1166.0	1972.9	1962.9	2157.4	1207.5	533.6	133.1
82.5°	95.9	105.9	168.8	267.5	569.4	748.2	806.9	882.7	517.9	340.5	58.7
85°	28.6	34.3	83.0	134.5	206.0	216.0	241.8	311.9	293.3	241.8	30.0
87.5°	4.3	4.3	34.3	37.2	30.0	38.6	40.1	44.4	94.4	88.7	15.7
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: P454538

CATALOG NUMBER: GALN-SA5C-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6	1742.6
2.5°	1745.4	1735.4	1699.6	1669.6	1643.8	1628.1	1609.5	1598.1	1592.3	1588.0	1589.5
5°	1752.6	1728.2	1666.7	1618.1	1580.9	1540.8	1513.6	1497.9	1490.8	1479.3	1479.3
7.5°	1792.6	1754.0	1668.2	1593.8	1529.4	1475.0	1423.5	1404.9	1392.0	1389.2	1386.3
10°	1849.9	1801.2	1683.9	1580.9	1489.3	1414.9	1342.0	1277.6	1227.5	1197.5	1193.2
12.5°	1921.4	1851.3	1708.2	1572.3	1455.0	1323.4	1130.2	1000.0	912.8	885.6	889.9
15°	1987.2	1911.4	1732.5	1565.2	1392.0	1097.3	878.4	729.6	685.3	681.0	682.4
17.5°	2065.9	1975.8	1761.2	1555.1	1218.9	838.4	652.4	612.3	620.9	635.2	633.8
20°	2147.4	2044.4	1795.5	1495.0	972.9	630.9	576.6	580.9	593.7	606.6	609.5
22.5°	2234.7	2123.1	1835.5	1350.6	742.5	549.4	546.5	552.2	565.1	579.4	582.3
25°	2354.9	2221.8	1865.6	1161.7	562.3	507.9	513.6	523.6	535.1	550.8	553.7
27.5°	2509.4	2354.9	1881.3	915.6	486.4	470.7	472.1	486.4	500.7	515.0	515.0
30°	2709.7	2513.7	1849.9	692.4	449.2	434.9	429.2	437.8	456.4	470.7	472.1
32.5°	2888.5	2663.9	1766.9	529.3	422.0	402.0	387.7	389.1	396.3	404.9	406.3
35°	3067.4	2809.8	1625.2	444.9	393.4	370.5	349.1	337.6	331.9	327.6	331.9
37.5°	3296.3	2991.5	1436.4	404.9	369.1	340.5	310.5	286.1	266.1	253.2	256.1
40°	3591.0	3243.3	1213.2	379.1	346.2	311.9	271.8	240.4	206.0	194.6	188.8
42.5°	4077.4	3625.3	978.6	357.7	323.3	281.8	231.8	188.8	157.4	145.9	148.8
45°	4845.7	4107.4	754.0	334.8	300.4	248.9	194.6	148.8	123.0	117.3	120.2
47.5°	5864.3	4731.2	580.9	309.0	271.8	213.2	153.1	117.3	101.6	100.1	98.7
50°	6822.9	5312.1	485.0	280.4	237.5	177.4	125.9	98.7	88.7	87.3	87.3
52.5°	7689.8	5728.4	394.9	247.5	200.3	145.9	105.9	87.3	78.7	74.4	74.4
55°	8461.0	6000.2	320.5	207.4	157.4	115.9	91.6	78.7	68.7	62.9	61.5
57.5°	9043.2	6033.1	240.4	166.0	117.3	90.1	78.7	68.7	57.2	50.1	47.2
60°	9292.2	5748.4	177.4	125.9	87.3	71.5	62.9	55.8	42.9	35.8	34.3
62.5°	9041.8	5194.8	131.6	95.9	67.2	52.9	44.4	41.5	30.0	21.5	20.0
65°	8144.8	4395.0	104.4	73.0	50.1	38.6	28.6	27.2	18.6	10.0	8.6
67.5°	6525.3	3442.2	83.0	54.4	35.8	25.8	18.6	17.2	10.0	2.9	2.9
70°	4243.4	2200.4	67.2	40.1	22.9	17.2	11.4	8.6	5.7	1.4	0.0
72.5°	2098.8	1028.6	54.4	31.5	15.7	8.6	4.3	2.9	4.3	0.0	0.0
75°	814.0	366.3	40.1	21.5	8.6	4.3	2.9	0.0	1.4	0.0	0.0
77.5°	270.4	121.6	24.3	11.4	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	100.1	47.2	12.9	7.2	2.9	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	40.1	18.6	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.0	11.4	5.7	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	8.6	5.7	4.3	2.9	1.4	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)