

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: P647073

Luminaire Tested: **GALN-SA7C-835-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30697.5 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

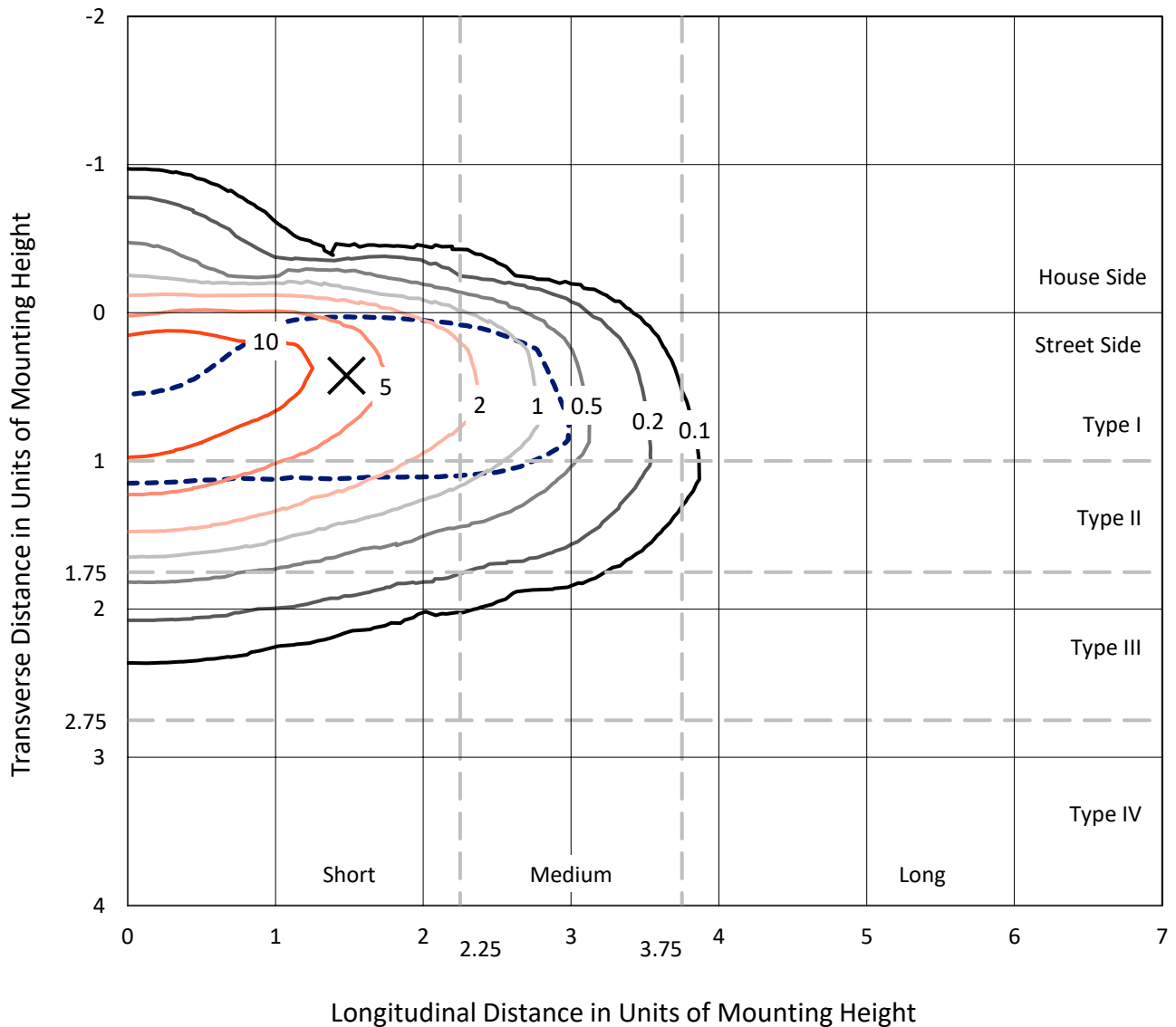
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

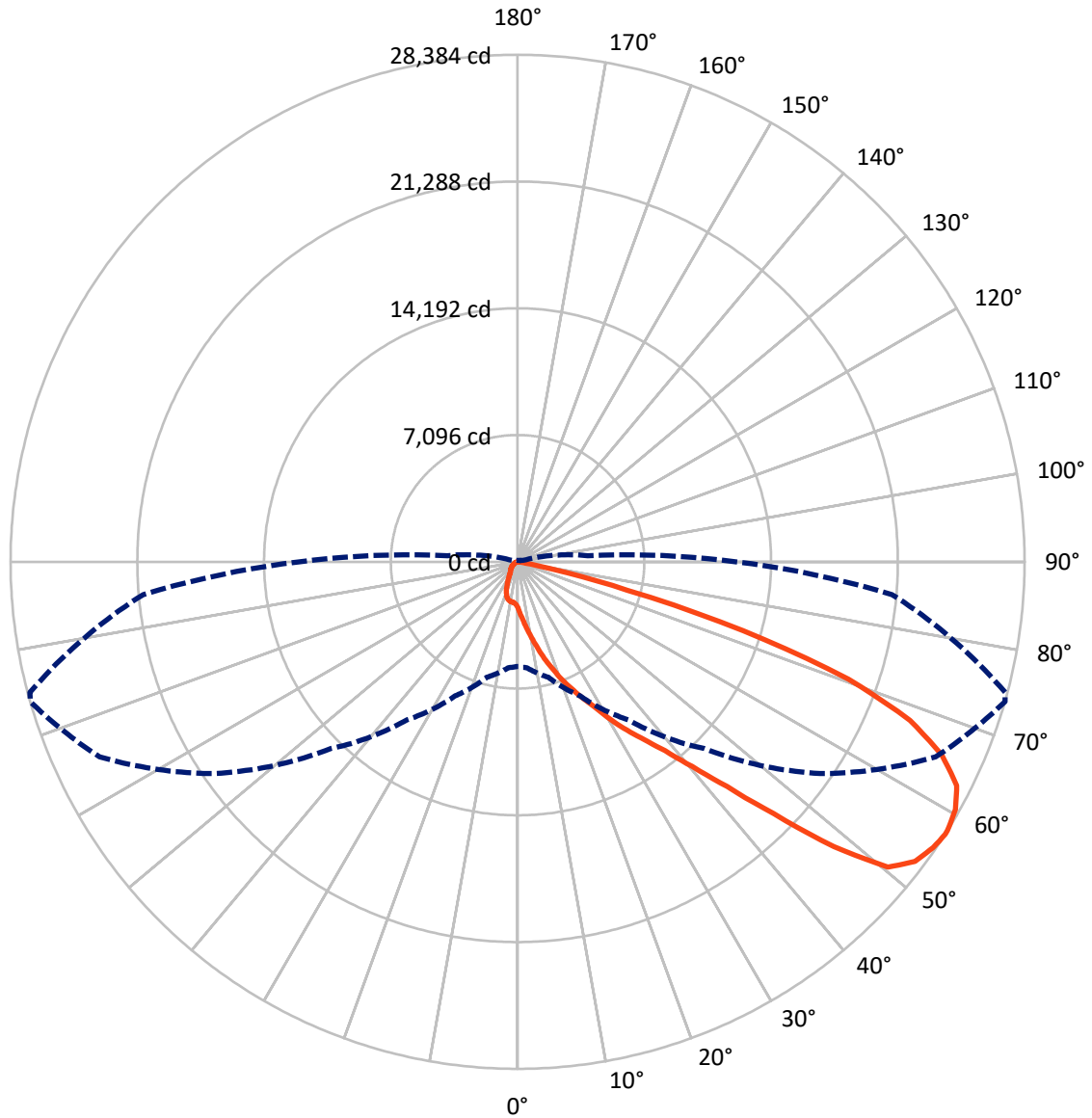
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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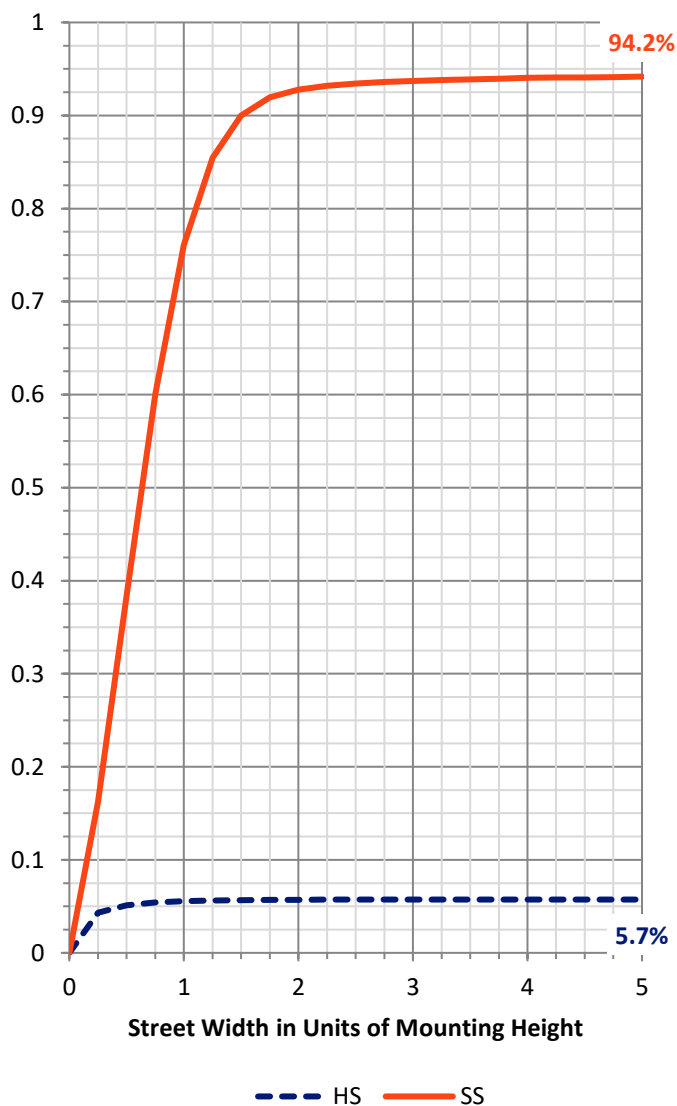
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1770.5	0.0	1770.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	28927.0	0.0	28927.0
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	30697.5	0.0	30697.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.3	1.0
10°-20°	1223.1	4.0
20°-30°	2617.2	8.5
30°-40°	4810.3	15.7
40°-50°	7374.3	24.0
50°-60°	7801.1	25.4
60°-70°	5094.3	16.6
70°-80°	1391.9	4.5
80°-90°	74.9	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°	30697.5	100.0
0°-180°	30697.5	100.0

**Coefficient of Utilization**

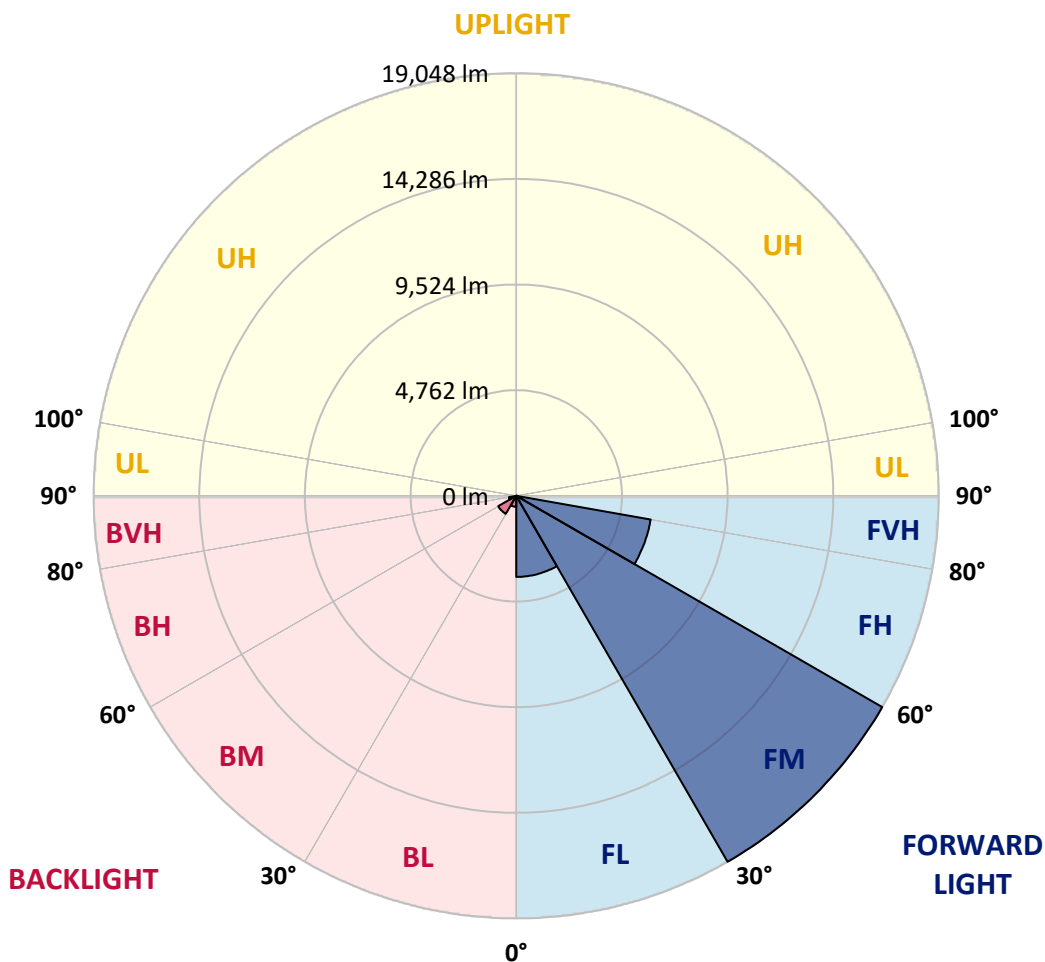


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3656.0	11.9			
FM (30°-60°)	19048.4	62.1			
FH (60°-80°)	6153.8	20.0			G3/7500
FVH (80°-90°)	68.7	0.2			G1/100
BL (0°-30°)	494.6	1.6	B1/500		
BM (30°-60°)	937.4	3.1	B1/1000		
BH (60°-80°)	332.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9
2.5°	3762.0	3728.1	3660.3	3637.0	3537.4	3382.6	3246.9	3064.7	2920.6	2905.7	2732.0
5°	5037.9	4961.6	4929.8	4777.2	4537.7	4313.1	3927.3	3634.8	3297.8	3272.4	2922.7
7.5°	6267.2	6161.2	6129.4	5985.3	5705.5	5351.6	4851.4	4319.4	3785.3	3736.6	3179.1
10°	7157.3	7172.2	7115.0	7019.6	6792.8	6432.5	5815.7	5088.8	4327.9	4266.4	3467.4
12.5°	7795.3	7793.2	7803.8	7801.7	7680.8	7407.4	6758.9	5921.7	4925.5	4804.8	3798.0
15°	8210.7	8217.0	8248.8	8359.1	8371.8	8202.2	7661.7	6718.6	5618.7	5468.2	4156.2
17.5°	8630.4	8674.9	8725.8	8829.6	8922.8	8855.0	8473.5	7549.5	6246.0	6133.6	4539.8
20°	9323.4	9384.9	9355.2	9418.8	9467.5	9473.9	9179.3	8316.6	7006.8	6818.2	4978.5
22.5°	10431.8	10429.7	10353.5	10239.0	10143.6	10139.4	9872.3	9105.1	7697.8	7515.5	5419.4
25°	11832.9	11839.2	11690.8	11364.4	11127.1	10836.6	10529.4	9796.0	8437.5	8212.8	5883.5
27.5°	13439.3	13399.1	13174.4	12725.1	12254.6	11758.6	11315.7	10599.3	9221.7	9035.2	6415.5
30°	14882.7	14867.8	14605.1	14056.1	13437.2	12939.2	12296.9	11606.0	10236.9	10008.0	7011.1
32.5°	16226.4	16247.6	15883.1	15315.1	14717.3	14143.0	13464.8	12568.2	11233.0	10908.8	7659.6
35°	17275.6	17296.7	16919.5	16446.8	15832.2	15355.3	14708.9	13594.1	12216.4	11943.0	8405.7
37.5°	17835.1	17862.6	17644.3	17288.2	16904.7	16665.1	16063.2	14914.5	13411.8	13246.5	9287.4
40°	17941.0	17972.8	17877.5	17782.1	17760.9	17932.6	17756.6	16470.2	15069.2	14810.6	10601.4
42.5°	17623.1	17665.5	17707.9	17919.8	18352.2	18981.6	19594.2	18581.1	17203.4	16855.9	12208.0
45°	16788.1	16783.8	16951.2	17500.2	18468.8	19812.5	21514.4	21224.1	20111.4	19698.0	14477.9
47.5°	15359.6	15338.3	15700.8	16482.9	17991.9	19965.1	23080.6	24432.9	23822.5	23441.0	16917.3
50°	13182.9	13286.7	13856.9	14948.4	16807.2	19503.0	23563.9	26537.4	26868.1	26463.3	18888.4
52.5°	10633.2	10629.0	11523.4	13004.8	15052.2	18485.7	23226.9	26919.0	27857.9	27548.4	19859.2
55°	7869.5	7924.6	8855.0	10349.2	12773.9	16629.1	22127.0	26526.9	28235.1	28016.8	20499.2
57°	5853.9	5951.3	6697.4	8278.5	10790.1	14791.6	20662.4	25825.4	28383.5	28264.8	21031.1
57.5°	5463.9	5468.2	6195.1	7632.1	10209.3	14085.8	20242.7	25532.8	28379.3	28313.6	21118.1
60°	3363.5	3469.6	3971.8	5158.7	7473.1	10993.6	17430.3	23852.1	28158.9	28254.2	21489.0
62.5°	2013.5	2058.0	2384.4	3109.2	4817.5	8024.2	14263.8	21700.9	27584.5	27874.8	21463.5
65°	1295.0	1305.6	1454.0	1882.1	3011.7	5423.6	10991.4	18858.7	26098.7	26632.8	20624.2
67.5°	1000.4	1017.4	1076.7	1235.7	1746.4	3378.4	7774.1	15825.8	23695.3	24384.1	18589.6
70°	888.1	896.5	917.8	968.6	1155.1	1907.5	4836.6	12362.7	19649.3	19844.3	14547.8
72.5°	724.8	748.2	813.9	830.8	915.6	1191.1	2691.7	8297.6	13202.0	13250.7	8138.7
75°	561.6	565.9	663.4	712.1	771.5	820.2	1201.7	4183.8	6341.4	6002.2	3136.8
77.5°	419.6	438.7	483.3	544.7	629.5	587.1	538.3	1576.9	1968.9	1932.9	911.3
80°	269.2	279.8	337.0	409.0	489.6	383.6	303.1	462.0	432.4	445.1	218.3
82.5°	135.6	137.7	216.2	332.8	311.6	192.9	190.7	188.6	161.1	158.9	101.7
85°	14.8	31.8	139.8	190.7	139.8	63.6	89.0	86.9	84.8	86.9	59.4
87.5°	2.1	2.1	23.3	27.6	19.1	21.2	25.4	27.6	33.9	31.8	25.4
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°	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9	2570.9
2.5°	2647.2	2562.4	2405.5	2255.1	2142.8	2070.7	1977.5	1943.6	1894.8	1888.4	1865.1
5°	2761.6	2600.6	2327.2	2111.0	1937.1	1805.8	1691.3	1595.9	1519.6	1502.7	1511.2
7.5°	2924.8	2685.3	2303.8	2009.3	1767.6	1543.0	1360.7	1248.3	1167.8	1138.2	1142.4
10°	3109.2	2797.7	2299.6	1901.1	1532.3	1256.8	1057.6	958.0	911.3	894.4	875.3
12.5°	3327.5	2926.9	2289.0	1733.7	1273.8	1002.5	860.5	801.2	756.6	743.9	743.9
15°	3573.4	3064.7	2238.1	1526.0	1034.3	828.7	733.4	686.7	671.9	659.1	659.1
17.5°	3829.8	3200.4	2132.2	1269.6	858.4	710.0	650.7	623.1	601.9	587.1	587.1
20°	4122.3	3333.9	1962.6	1042.8	724.8	633.7	587.1	555.3	538.3	525.6	521.4
22.5°	4399.9	3442.0	1746.4	856.3	631.6	570.1	527.7	493.8	476.8	470.5	470.5
25°	4688.2	3507.7	1485.7	707.9	576.5	517.2	470.5	442.9	428.1	423.9	421.8
27.5°	4968.0	3545.8	1256.8	618.9	525.6	468.4	423.9	402.7	387.8	383.6	385.7
30°	5307.1	3552.2	1034.3	555.3	481.1	421.8	381.5	362.5	353.9	349.7	347.6
32.5°	5650.4	3543.7	869.0	517.2	438.7	381.5	347.6	332.8	326.4	320.0	320.0
35°	6036.1	3499.2	739.7	479.0	398.5	347.6	317.9	305.2	296.8	290.3	288.2
37.5°	6515.2	3475.9	665.5	436.6	362.5	315.8	288.2	275.5	269.2	260.7	258.5
40°	7269.7	3579.7	642.2	398.5	326.4	286.1	260.7	245.9	237.4	228.9	226.8
42.5°	8210.7	3762.0	604.0	360.3	294.6	258.5	233.1	216.2	201.3	190.7	186.5
45°	9429.4	4001.5	544.7	320.0	267.1	228.9	205.6	184.4	165.3	156.8	154.7
47.5°	10707.4	4232.5	491.7	288.2	237.4	203.5	178.1	154.7	137.7	131.4	129.3
50°	11491.6	4279.2	457.8	252.2	207.7	175.9	150.5	129.3	118.7	112.4	112.4
52.5°	11849.8	4204.9	411.2	220.4	180.2	154.7	129.3	112.4	105.9	101.7	99.6
55°	12099.9	4090.5	349.7	190.7	154.7	131.4	114.5	101.7	93.3	89.0	86.9
57°	12246.1	3935.8	303.1	167.4	133.5	114.5	101.7	91.1	82.7	74.2	74.2
57.5°	12252.5	3876.5	290.3	165.3	127.2	110.2	99.6	89.0	78.5	69.9	67.8
60°	12063.8	3469.6	233.1	139.8	101.7	93.3	82.7	69.9	55.1	46.6	44.5
62.5°	11457.6	2952.4	192.9	118.7	82.7	72.0	59.4	53.0	38.1	27.6	27.6
65°	10540.0	2395.0	165.3	95.4	67.8	53.0	40.2	38.1	23.3	12.7	10.6
67.5°	9213.2	1865.1	139.8	78.5	57.2	38.1	27.6	25.4	12.7	4.2	0.0
70°	7019.6	1271.7	116.6	63.6	42.4	27.6	19.1	14.8	8.5	2.1	0.0
72.5°	4046.0	699.4	97.5	48.8	31.8	21.2	14.8	8.5	8.5	0.0	0.0
75°	1445.4	301.0	74.2	36.0	25.4	17.0	10.6	4.2	6.3	2.1	0.0
77.5°	459.9	161.1	48.8	27.6	21.2	12.7	8.5	4.2	4.2	2.1	0.0
80°	135.6	84.8	29.7	23.3	14.8	10.6	6.3	2.1	4.2	2.1	0.0
82.5°	74.2	42.4	23.3	17.0	14.8	8.5	6.3	2.1	2.1	2.1	0.0
85°	38.1	25.4	19.1	17.0	14.8	8.5	6.3	2.1	0.0	2.1	2.1
87.5°	21.2	19.1	19.1	17.0	14.8	10.6	6.3	2.1	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)