

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: P648555

Luminaire Tested: **GALN-SA7B-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23198.7 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

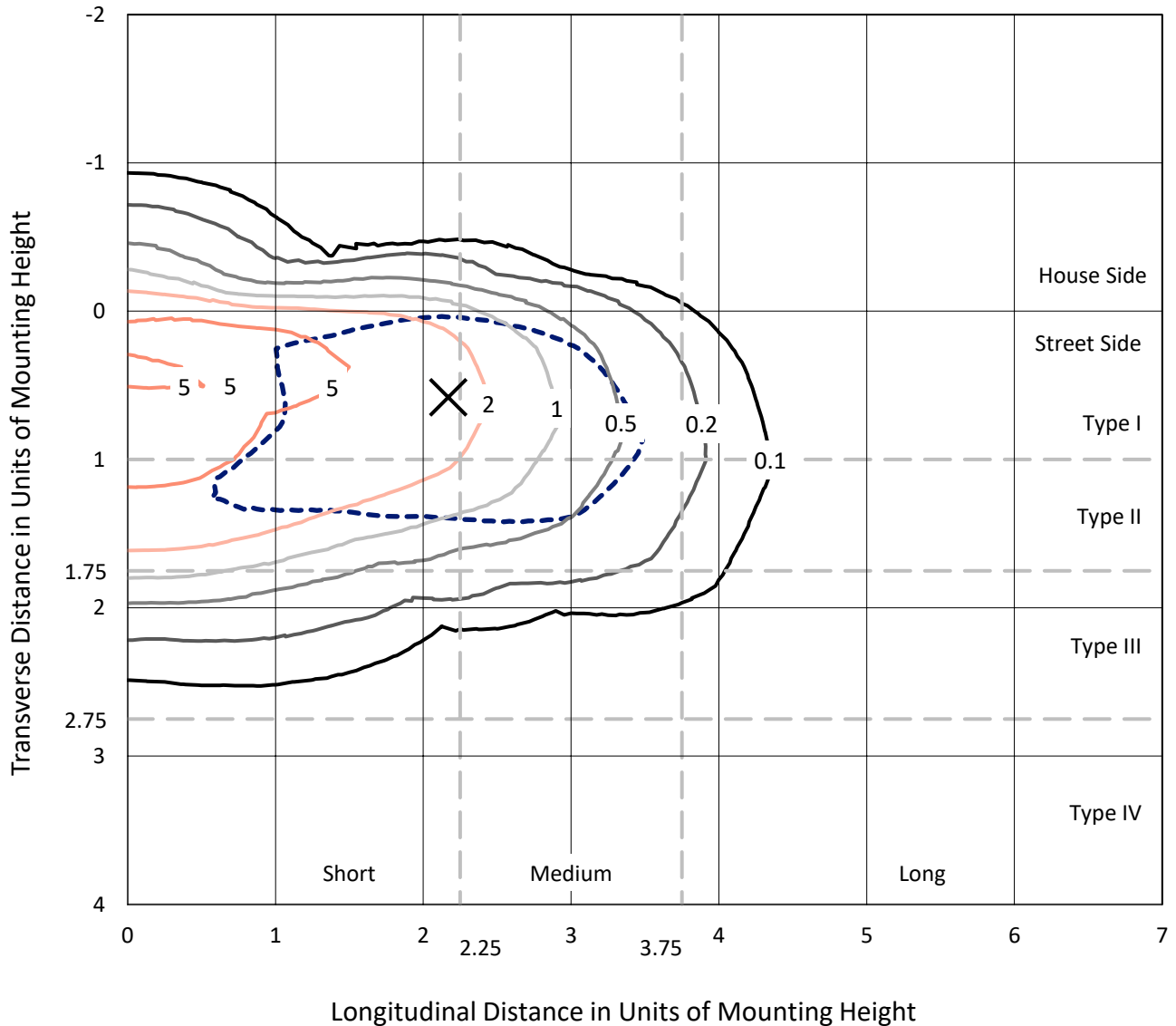
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

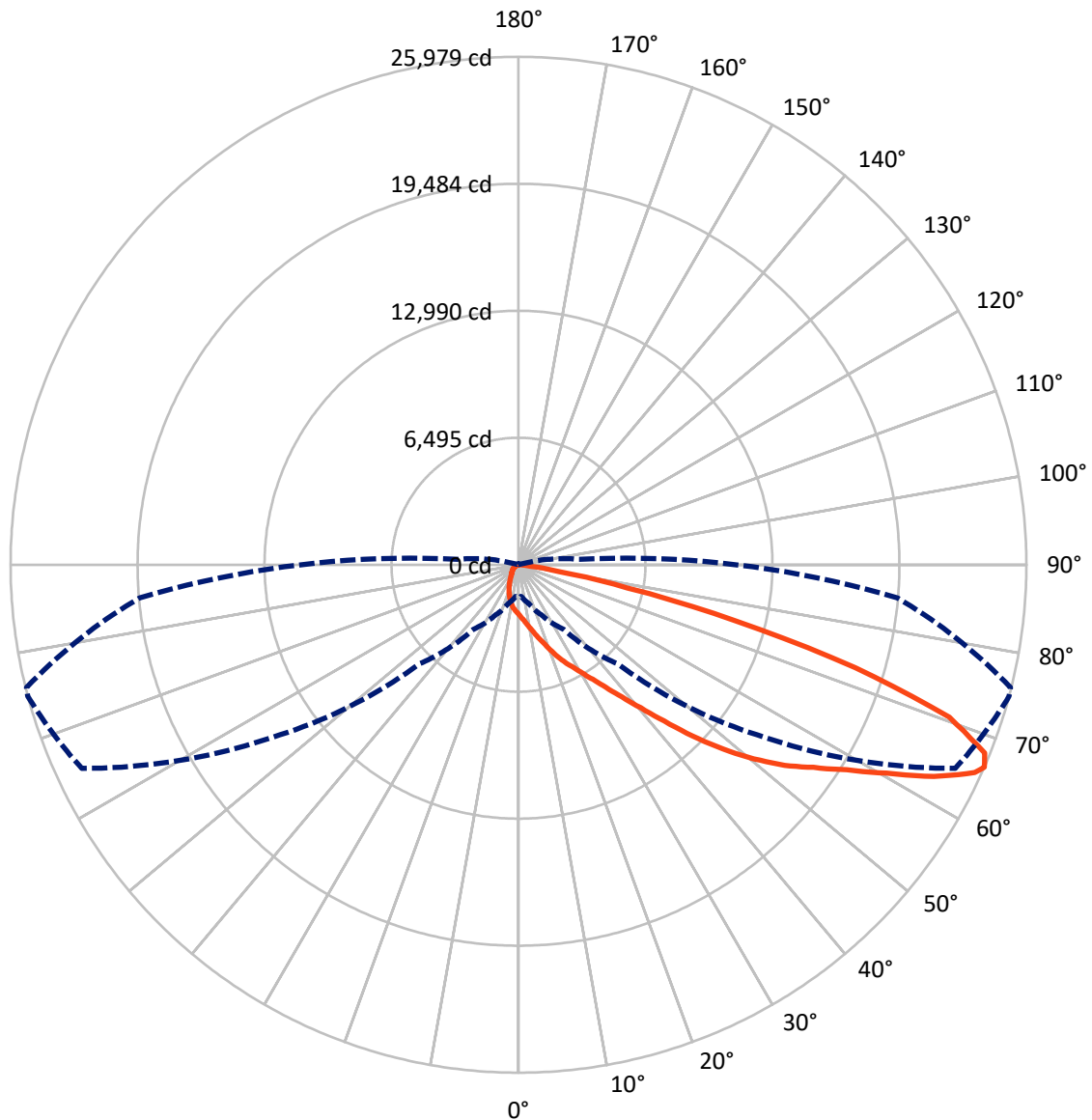
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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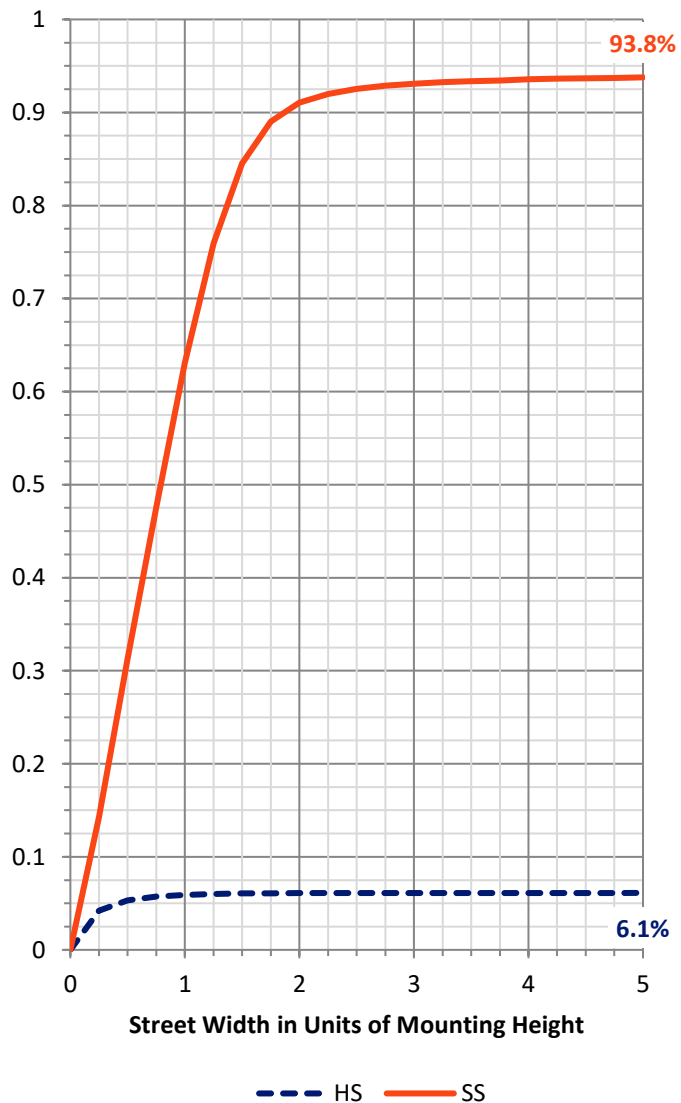
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1432.2	0.0	1432.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	21766.5	0.0	21766.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	23198.7	0.0	23198.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.7	1.1
10°-20°	720.2	3.1
20°-30°	1243.6	5.4
30°-40°	2243.1	9.7
40°-50°	4052.3	17.5
50°-60°	6317.5	27.2
60°-70°	6001.4	25.9
70°-80°	2249.2	9.7
80°-90°	126.9	0.5
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°	23198.7	100.0
0°-180°	23198.7	100.0

**Coefficient of Utilization**

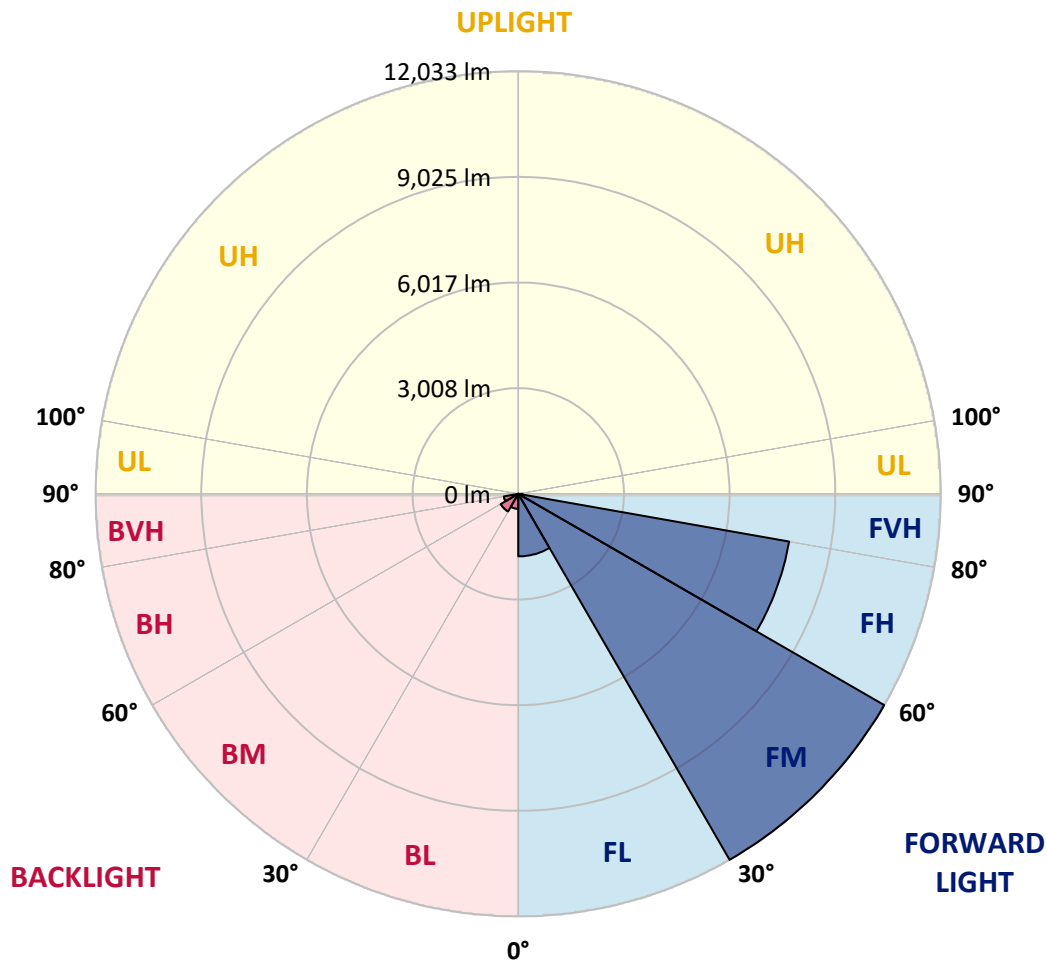


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.7	7.7			
FM (30°-60°)	12033.2	51.9			
FH (60°-80°)	7832.3	33.8			G4/12000
FVH (80°-90°)	120.4	0.5			G2/225
BL (0°-30°)	427.7	1.8	B1/500		
BM (30°-60°)	579.7	2.5	B1/1000		
BH (60°-80°)	418.2	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0
2.5°	3031.0	2993.3	3005.3	2988.2	2948.7	2890.4	2838.9	2765.2	2691.4	2679.3	2597.1
5°	3430.7	3420.4	3406.7	3357.0	3329.5	3240.3	3134.0	3007.0	2854.3	2826.9	2677.7
7.5°	3703.4	3698.3	3705.2	3679.5	3655.4	3574.8	3461.6	3288.4	3051.6	3036.2	2787.5
10°	3792.6	3806.4	3832.1	3873.3	3911.0	3885.2	3799.5	3583.4	3307.2	3262.6	2912.7
12.5°	3741.2	3756.6	3818.4	3928.2	4050.0	4120.3	4086.0	3928.2	3578.2	3542.2	3053.3
15°	3609.1	3628.0	3715.5	3885.2	4103.2	4302.1	4387.9	4274.6	3893.9	3835.5	3223.1
17.5°	3413.6	3441.0	3566.3	3791.0	4089.4	4432.5	4674.4	4636.6	4230.1	4175.2	3408.4
20°	3266.0	3286.6	3393.0	3650.3	4031.1	4504.5	4947.1	5053.4	4645.1	4550.9	3626.2
22.5°	3363.8	3370.7	3406.7	3561.1	3926.4	4523.4	5187.2	5487.4	5086.1	5002.0	3852.7
25°	3842.4	3773.7	3737.7	3703.4	3904.1	4506.2	5405.0	5940.3	5525.2	5436.0	4077.4
27.5°	4597.1	4566.3	4384.4	4140.9	4094.5	4528.6	5549.2	6369.1	5938.6	5842.5	4296.9
30°	5418.8	5365.7	5254.2	4897.4	4538.8	4686.3	5653.8	6785.9	6427.4	6300.5	4497.6
32.5°	6173.6	6207.9	6041.5	5674.4	5259.3	5022.6	5789.3	7240.5	6988.4	6830.6	4731.0
35°	7053.6	7122.2	6866.6	6515.0	6029.5	5629.8	6053.5	7753.4	7700.3	7501.2	5091.1
37.5°	7947.2	7988.4	7832.3	7338.3	6900.9	6401.7	6551.0	8386.4	8576.7	8407.0	5521.7
40°	8698.6	8755.2	8640.2	8201.1	7734.6	7295.4	7273.1	9075.9	9619.7	9444.8	6163.3
42.5°	9273.2	9316.1	9319.5	9009.0	8588.8	8389.8	8194.3	9955.9	10926.8	10724.4	6907.7
45°	9998.8	10060.5	10024.5	9813.6	9499.7	9463.7	9362.4	11019.5	12491.2	12235.6	7873.5
47.5°	11120.6	11161.8	11072.6	10823.9	10504.8	10561.4	10501.4	12211.6	14086.5	13866.9	8873.5
50°	11899.4	11968.0	12095.0	12194.4	11962.9	11753.6	11575.2	13324.9	15601.1	15403.9	9895.9
52.5°	11890.9	12004.0	12405.5	12906.3	13412.4	13348.9	12836.0	14554.8	17047.2	16803.6	10856.5
55°	11089.8	11309.3	11899.4	12788.0	14189.4	14887.6	14654.3	15978.5	18296.0	18131.3	11969.7
57.5°	9436.2	9570.0	10389.9	11631.9	13755.4	15611.5	16760.7	17908.3	19793.5	19716.3	13698.8
60°	6346.8	6406.8	7461.8	8997.1	11710.7	14889.3	18304.6	20242.9	21637.5	21599.8	15717.8
62.5°	3636.6	3662.2	4427.3	5722.4	8333.2	12618.1	18435.0	23123.0	23848.6	23869.1	18054.1
65°	1957.2	1971.0	2588.4	3358.7	5070.6	8993.6	16577.2	24701.1	25636.0	25675.4	19501.9
66°	1689.6	1624.4	2060.2	2863.0	4034.5	7158.2	15402.2	24644.5	25979.1	25936.2	19450.4
67.5°	1284.8	1343.2	1645.0	2200.8	2989.9	5089.4	12715.9	23548.4	25718.3	25584.5	18659.6
70°	919.4	943.4	1171.6	1569.5	2036.1	2792.6	8125.7	19558.5	23375.1	23195.0	16256.4
72.5°	593.5	619.3	830.2	1135.6	1471.8	1525.0	4549.2	14131.1	18021.5	17995.8	12242.5
75°	423.7	447.7	548.9	813.1	1106.4	943.4	2190.5	9523.6	11456.9	11379.7	7573.3
77.5°	307.0	319.1	367.1	531.7	790.8	675.9	1015.5	5086.1	5703.5	5972.9	3346.6
80°	176.6	187.0	255.6	324.2	535.2	461.4	485.5	2041.3	2104.7	2003.5	1046.4
82.5°	87.5	99.5	152.7	221.3	334.5	310.5	223.0	614.1	648.4	631.3	264.2
85°	20.6	25.8	85.7	145.8	162.9	139.0	108.1	180.1	223.0	217.8	101.2
87.5°	1.7	3.4	30.9	25.8	27.5	46.4	37.7	46.4	72.0	66.9	36.0
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°	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0
2.5°	2559.3	2526.7	2432.4	2339.8	2262.6	2181.9	2108.1	2065.3	2048.2	2029.3	2037.8
5°	2595.3	2516.4	2326.1	2161.3	2000.1	1862.9	1753.1	1682.7	1648.4	1643.3	1634.7
7.5°	2643.3	2507.9	2212.8	1955.5	1744.5	1591.8	1466.6	1365.4	1334.5	1307.1	1284.8
10°	2701.7	2492.4	2072.1	1739.4	1514.6	1322.6	1157.9	1037.8	976.0	958.9	970.9
12.5°	2763.4	2463.2	1924.6	1540.4	1281.4	1036.1	883.4	823.4	806.3	799.4	801.1
15°	2825.2	2427.2	1770.3	1348.2	1020.6	826.8	756.5	741.0	734.1	730.8	727.3
17.5°	2881.8	2368.9	1597.0	1161.3	826.8	706.7	681.0	667.3	653.6	648.4	639.8
20°	2948.7	2302.0	1440.9	952.0	699.8	639.8	608.9	583.3	562.7	548.9	547.2
22.5°	3012.2	2216.2	1277.9	789.0	638.1	574.6	524.9	497.4	473.4	456.3	461.4
25°	3046.5	2111.6	1132.1	687.9	581.5	509.5	454.5	420.2	394.6	385.9	384.2
27.5°	3046.5	1982.9	989.8	629.5	530.0	451.2	394.6	361.9	344.8	332.8	334.5
30°	3022.5	1840.6	857.7	584.9	485.5	399.6	346.5	317.3	303.6	295.0	293.3
32.5°	3003.6	1705.1	744.5	542.1	439.1	355.1	308.7	286.5	272.7	264.2	264.2
35°	3032.7	1588.4	657.0	499.2	396.3	320.8	279.6	259.0	245.3	238.4	236.7
37.5°	3109.9	1482.1	590.1	452.9	356.8	291.6	259.0	235.0	221.3	212.7	209.3
40°	3300.3	1422.0	540.3	410.0	319.1	267.6	235.0	212.7	195.5	187.0	185.3
42.5°	3605.6	1423.7	492.3	370.5	289.9	247.0	214.4	188.7	169.8	161.2	159.5
45°	4065.4	1489.0	454.5	332.8	264.2	224.7	192.1	164.7	147.5	139.0	139.0
47.5°	4616.0	1615.9	422.0	300.2	240.1	204.1	169.8	142.3	125.2	118.4	118.4
50°	5213.0	1780.5	389.4	265.9	219.6	181.8	145.8	123.5	109.8	104.6	104.6
52.5°	5821.9	1979.5	356.8	238.4	197.2	157.8	125.2	109.8	97.8	94.4	92.6
55°	6621.3	2233.4	322.5	209.3	173.3	135.5	111.5	96.1	82.4	77.2	75.5
57.5°	7851.1	2615.9	284.8	183.5	142.3	113.2	96.1	80.6	65.1	56.6	54.9
60°	9334.9	3082.5	245.3	161.2	114.9	92.6	77.2	61.8	48.0	37.7	36.0
62.5°	10724.4	3379.3	207.6	135.5	90.9	70.3	54.9	46.4	34.3	24.0	22.3
65°	11338.5	3279.8	171.6	109.8	72.0	49.7	36.0	32.6	20.6	10.3	8.6
66°	11134.3	3132.2	157.8	99.5	65.1	42.9	30.9	27.5	15.4	5.2	5.2
67.5°	10532.3	2784.0	137.3	85.7	56.6	34.3	24.0	20.6	8.6	1.7	0.0
70°	9024.5	2252.3	108.1	63.5	41.2	24.0	13.7	10.3	5.2	0.0	0.0
72.5°	6931.7	1677.7	85.7	48.0	29.1	13.7	6.9	3.4	5.2	0.0	0.0
75°	4247.2	958.9	66.9	36.0	18.9	8.6	5.2	0.0	5.2	1.7	0.0
77.5°	1885.2	430.6	44.6	24.0	13.7	6.9	3.4	0.0	3.4	1.7	0.0
80°	476.8	140.6	25.8	17.1	10.3	5.2	1.7	0.0	3.4	3.4	1.7
82.5°	130.4	51.4	18.9	13.7	8.6	5.2	1.7	0.0	3.4	3.4	3.4
85°	51.4	24.0	17.1	13.7	10.3	5.2	1.7	0.0	3.4	3.4	3.4
87.5°	24.0	17.1	17.1	15.4	12.0	5.2	1.7	0.0	3.4	1.7	3.4
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)