

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: P651394

Luminaire Tested: **GALN-SA5D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19016.7 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

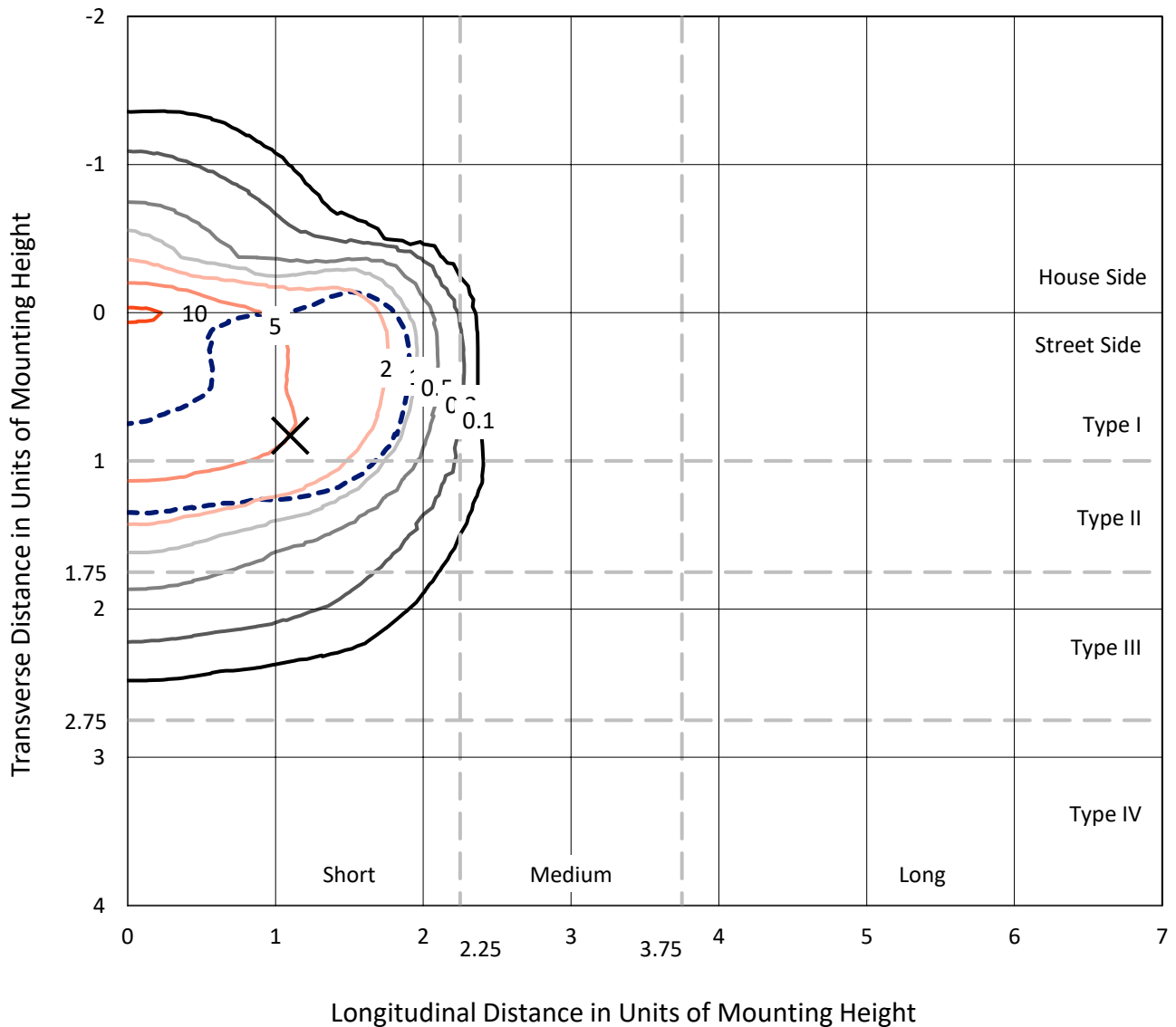
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

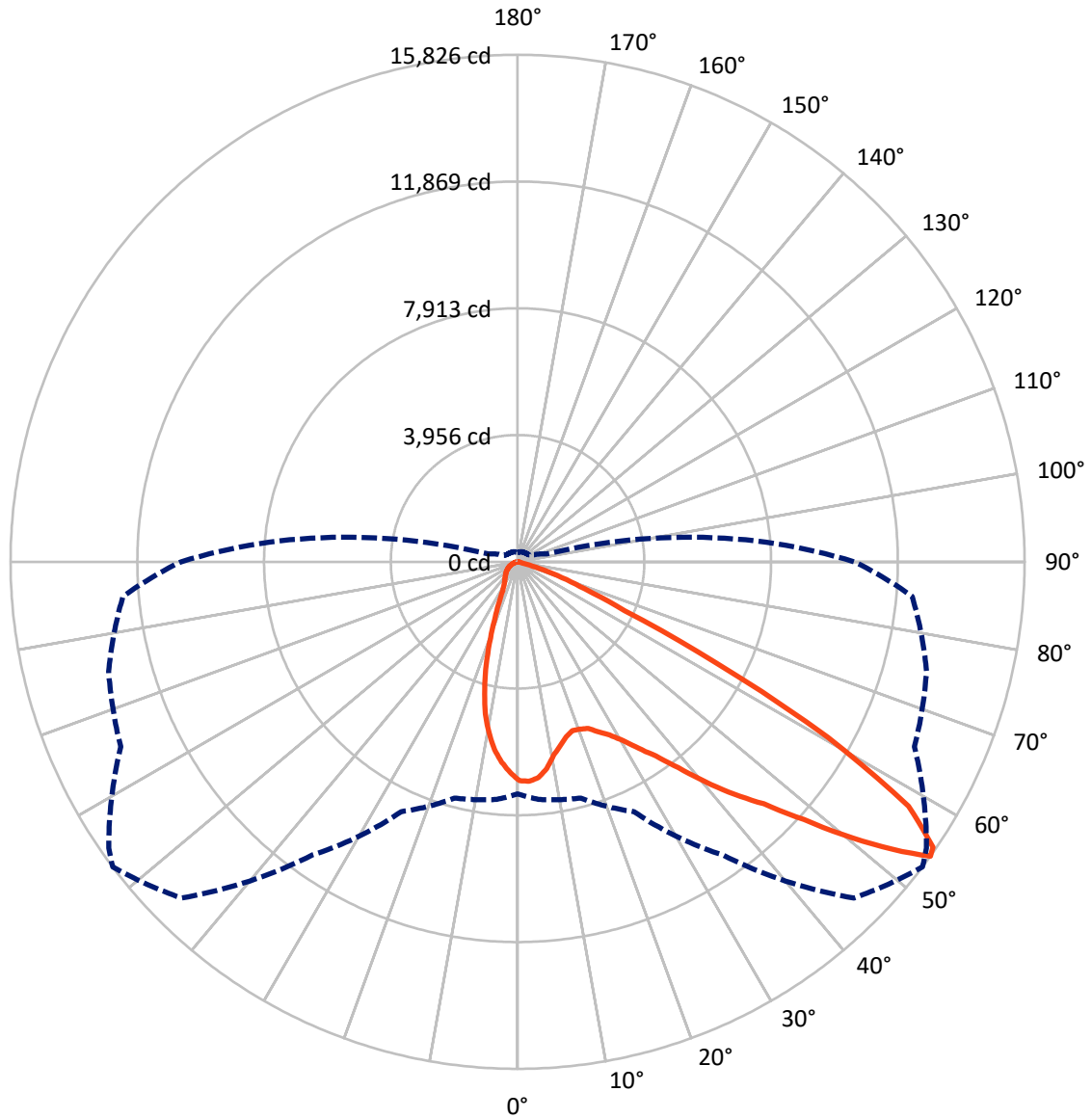
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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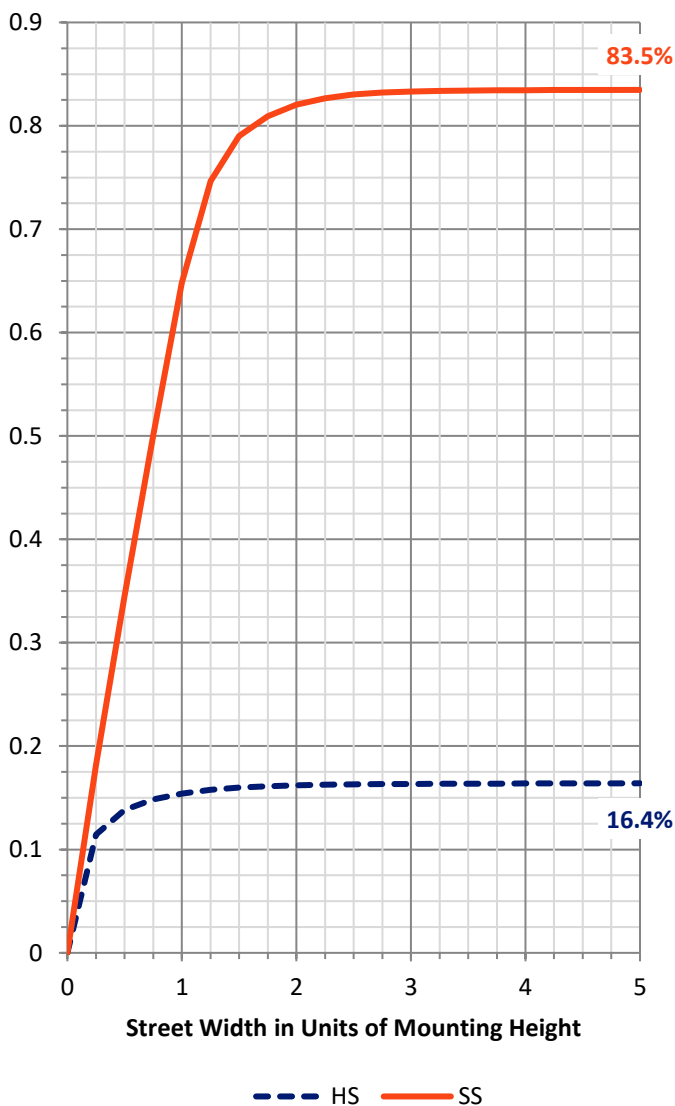
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3146.3	0.0	3146.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15870.3	0.0	15870.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	19016.7	0.0	19016.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.0	3.1
10°-20°	1343.6	7.1
20°-30°	1909.6	10.0
30°-40°	2946.9	15.5
40°-50°	4620.5	24.3
50°-60°	5367.4	28.2
60°-70°	2028.1	10.7
70°-80°	192.9	1.0
80°-90°	21.7	0.1
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°	19016.7	100.0
0°-180°	19016.7	100.0

**Coefficient of Utilization**

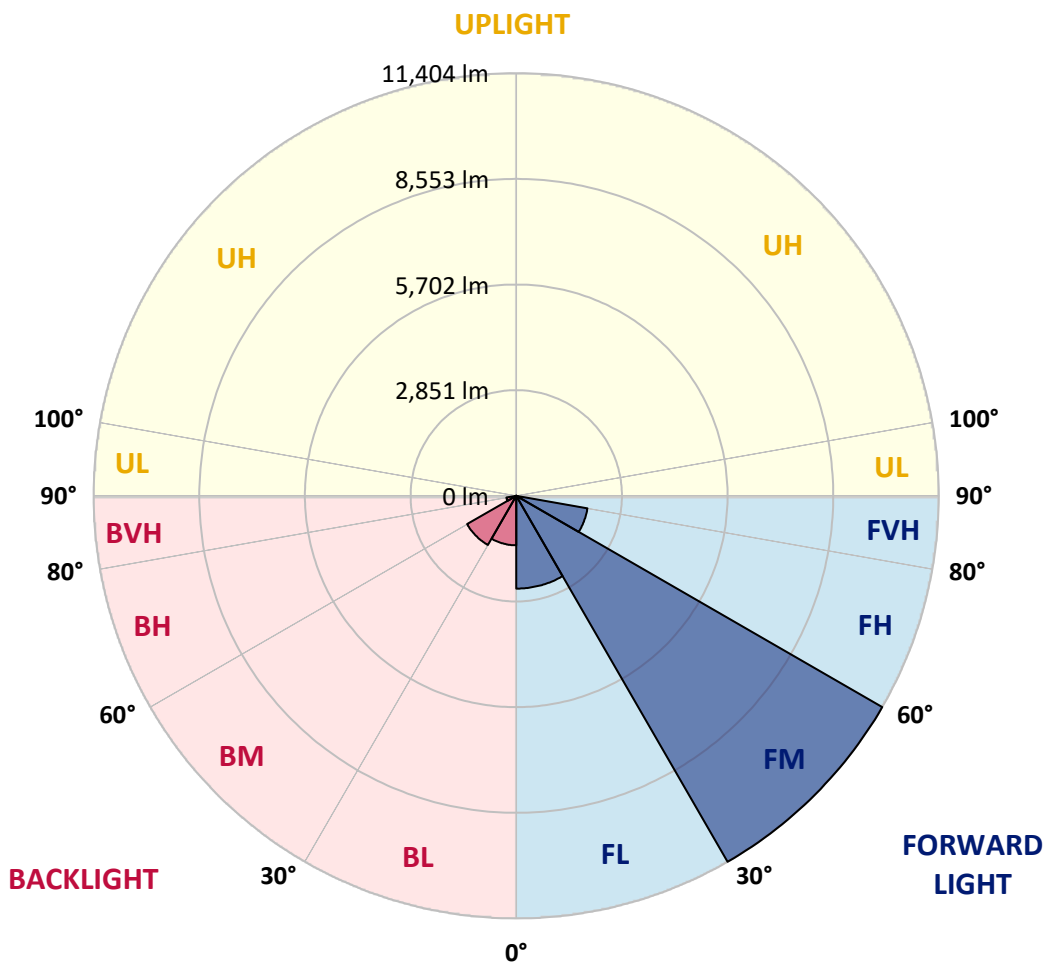


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2504.0	13.2			
FM (30°-60°)	11403.7	60.0			
FH (60°-80°)	1951.4	10.3			G2/5000
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	1335.2	7.0	B3/2500		
BM (30°-60°)	1531.1	8.1	B2/2500		
BH (60°-80°)	269.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4
2.5°	6795.0	6734.8	6795.0	6802.1	6844.6	6883.6	6858.8	6915.5	6883.6	6848.2	6837.6
5°	6245.9	6327.4	6331.0	6458.5	6430.1	6664.0	6766.7	6738.3	6911.9	6901.3	6876.5
7.5°	5753.4	5721.6	5764.1	5912.9	6100.7	6369.9	6518.7	6515.1	6763.2	6940.3	6922.6
10°	5296.4	5292.9	5381.5	5498.4	5657.8	5941.2	6146.7	6249.5	6635.7	6904.9	6943.9
12.5°	4988.2	4974.1	5069.7	5165.3	5416.9	5636.6	5898.7	5948.3	6391.2	6780.9	6844.6
15°	4786.3	4818.2	4825.2	5009.5	5169.0	5459.4	5664.9	5767.7	6277.8	6681.7	6926.1
17.5°	4750.9	4793.4	4796.9	4949.3	5119.3	5363.7	5544.5	5682.6	6182.1	6731.3	6929.7
20°	4821.7	4796.9	4818.2	4913.8	5080.3	5314.2	5576.3	5622.4	6150.2	6756.1	6968.6
22.5°	5023.6	5016.6	4963.4	5041.4	5158.3	5402.8	5650.8	5721.6	6242.4	6883.6	7000.6
25°	5246.8	5285.9	5236.2	5225.6	5307.0	5548.0	5877.5	5969.6	6550.6	7113.9	7099.7
27.5°	5664.9	5626.0	5626.0	5576.3	5555.1	5672.0	6121.9	6274.3	6894.3	7411.5	7213.1
30°	6065.2	6107.8	6075.9	6093.5	5951.8	5941.2	6469.1	6656.9	7503.6	7864.9	7454.0
32.5°	6699.4	6642.7	6695.9	6649.8	6462.0	6270.7	6940.3	7135.1	8240.5	8385.8	7815.3
35°	7227.3	7202.5	7429.2	7422.1	7117.5	6929.7	7439.8	7730.3	8754.2	9009.3	8240.5
37.5°	7978.3	7932.3	8190.9	8314.9	8042.1	7762.3	8155.5	8492.0	9232.5	9508.9	8676.3
40°	8750.7	8867.6	9214.8	9420.2	9129.7	8757.8	9030.6	9133.3	9551.3	9834.7	8973.9
42.5°	9728.4	9898.5	10252.8	10429.9	10405.1	10001.3	9919.8	9916.2	9781.6	9742.6	9193.5
45°	10667.3	10603.5	11149.1	11535.3	11847.1	11730.1	10777.2	10670.9	10146.5	9880.8	9250.2
47.5°	11078.2	11057.0	11429.0	12116.3	13179.1	13324.4	12024.2	11613.2	10762.9	10461.8	9558.4
50°	10546.8	10656.6	11025.1	11786.8	13416.5	14525.4	13554.6	13002.0	11482.2	11170.4	10288.2
52.5°	8810.9	8885.2	9236.0	10203.2	12608.8	15234.0	15021.4	14702.5	12803.6	12286.3	11560.0
54°	7245.0	7443.4	7634.7	8605.4	11170.4	14840.7	15825.6	15581.1	13664.5	13214.5	12360.8
55°	6309.7	6426.6	6564.8	7531.9	10174.8	14174.6	15733.5	15754.7	14242.0	13505.0	12899.3
57.5°	4609.2	4690.7	4548.9	4977.6	6986.4	11510.5	14390.8	14964.7	15021.4	13940.8	13228.8
60°	3521.5	3556.9	3397.6	3464.8	4343.4	7900.4	11131.4	11822.3	13551.1	12183.7	11205.8
62.5°	2731.5	2738.5	2735.0	2851.9	2993.6	4648.1	6961.5	7574.5	9342.3	8651.5	7609.9
65°	2012.3	1980.4	2037.1	2391.4	2554.4	2922.8	3666.8	4113.2	5076.8	4286.7	3064.5
67.5°	1303.7	1314.4	1371.1	1778.5	2189.5	2242.6	2256.7	2221.3	2224.9	1225.8	768.8
70°	783.0	800.6	783.0	1006.2	1565.9	1608.4	1470.2	1434.8	1119.5	290.5	286.9
72.5°	464.1	439.3	393.3	432.2	651.9	779.4	701.5	697.9	439.3	170.1	170.1
75°	194.9	177.1	145.2	131.1	173.6	166.5	166.5	148.8	116.9	113.4	106.3
77.5°	38.9	38.9	28.3	31.9	42.6	49.6	60.2	60.2	70.9	70.9	67.3
80°	0.0	3.5	10.6	21.3	31.9	46.1	53.2	53.2	60.2	60.2	49.6
82.5°	0.0	3.5	10.6	21.3	28.3	42.6	53.2	53.2	60.2	63.7	53.2
85°	0.0	3.5	10.6	17.7	28.3	35.4	35.4	31.9	24.8	21.3	14.2
87.5°	0.0	0.0	3.5	7.1	3.5	7.1	7.1	7.1	7.1	7.1	7.1
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°	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4	6830.4
2.5°	6862.4	6858.8	6773.8	6635.7	6603.7	6486.8	6472.7	6401.8	6440.8	6309.7	6295.5
5°	6805.7	6763.2	6660.4	6571.8	6313.2	6129.0	5983.7	5806.6	5703.8	5721.6	5654.3
7.5°	6887.2	6777.4	6596.6	6288.4	5973.1	5650.8	5477.1	5115.8	4984.7	4789.8	4761.5
10°	6802.1	6720.7	6440.8	5930.6	5494.8	5030.8	4623.3	4223.0	3918.3	3787.2	3758.8
12.5°	6795.0	6653.3	6185.7	5618.8	4988.2	4322.2	3730.5	3231.0	2929.9	2759.8	2720.9
15°	6685.2	6515.1	5898.7	5137.0	4265.5	3436.5	2791.7	2309.9	2079.6	1980.4	2008.7
17.5°	6695.9	6440.8	5611.7	4626.8	3553.4	2522.5	1906.0	1658.0	1597.8	1622.6	1622.6
20°	6685.2	6274.3	5264.6	4038.7	2720.9	1750.1	1399.4	1310.9	1349.8	1427.8	1410.0
22.5°	6628.5	6196.3	4945.8	3418.7	2001.7	1296.7	1123.1	1126.6	1186.8	1282.5	1303.7
25°	6671.1	6022.7	4541.8	2791.7	1459.6	1034.5	974.3	999.0	1062.9	1133.7	1147.9
27.5°	6639.2	5898.7	4120.2	2168.2	1066.4	889.3	885.7	914.0	942.3	995.5	995.5
30°	6674.6	5785.3	3705.8	1611.9	878.6	814.8	800.6	821.9	850.3	860.9	857.3
32.5°	6805.7	5700.3	3227.5	1204.6	775.9	743.9	743.9	743.9	740.4	754.6	758.2
35°	7092.7	5714.5	2805.9	931.7	708.5	683.7	673.1	658.9	651.9	658.9	662.5
37.5°	7404.4	5707.4	2370.1	793.6	658.9	637.7	612.9	591.6	588.1	595.2	584.6
40°	7542.6	5774.7	1966.3	712.1	612.9	588.1	549.1	531.4	535.0	542.0	535.0
42.5°	7730.3	5796.0	1704.0	648.3	570.4	531.4	506.6	485.3	481.8	492.4	488.9
45°	7726.8	5675.5	1427.8	612.9	531.4	488.9	457.0	439.3	439.3	446.4	449.9
47.5°	7953.5	5657.8	1225.8	581.0	503.1	460.5	421.6	407.4	403.8	403.8	396.8
50°	8481.4	5905.8	1069.9	545.6	467.7	428.7	396.8	379.0	364.9	357.8	354.3
52.5°	9512.4	6678.1	949.5	503.1	428.7	396.8	368.4	354.3	336.6	318.8	315.3
54°	10511.4	7475.2	942.3	467.7	396.8	375.5	350.7	343.6	322.4	297.6	290.5
55°	10961.3	7939.4	967.2	439.3	375.5	361.4	340.1	333.0	311.8	283.4	279.9
57.5°	11333.3	8120.0	953.0	364.9	340.1	336.6	318.8	308.2	283.4	244.5	237.3
60°	9122.7	6139.6	683.7	322.4	311.8	304.7	290.5	283.4	251.5	209.0	205.5
62.5°	5764.1	3532.1	435.7	283.4	272.8	262.1	244.5	237.3	209.0	166.5	155.9
65°	2455.1	1463.2	294.0	251.5	233.8	216.1	201.9	191.3	166.5	124.0	120.4
67.5°	637.7	520.7	244.5	219.7	194.9	170.1	159.5	141.7	113.4	85.0	81.5
70°	286.9	262.1	205.5	184.3	155.9	131.1	116.9	99.2	74.4	56.7	53.2
72.5°	170.1	166.5	155.9	138.2	116.9	99.2	85.0	67.3	49.6	31.9	31.9
75°	106.3	102.8	106.3	95.6	81.5	74.4	63.7	46.1	28.3	14.2	14.2
77.5°	63.7	63.7	63.7	60.2	56.7	56.7	46.1	28.3	14.2	3.5	3.5
80°	49.6	49.6	53.2	49.6	49.6	49.6	38.9	21.3	7.1	0.0	0.0
82.5°	49.6	53.2	60.2	56.7	49.6	42.6	35.4	21.3	7.1	0.0	0.0
85°	14.2	10.6	17.7	24.8	35.4	31.9	24.8	17.7	7.1	0.0	0.0
87.5°	7.1	7.1	7.1	7.1	3.5	3.5	3.5	3.5	3.5	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)