

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: P530285

Luminaire Tested: **GALN-SA5C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530285  
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-SA5C-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA 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: 18715 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

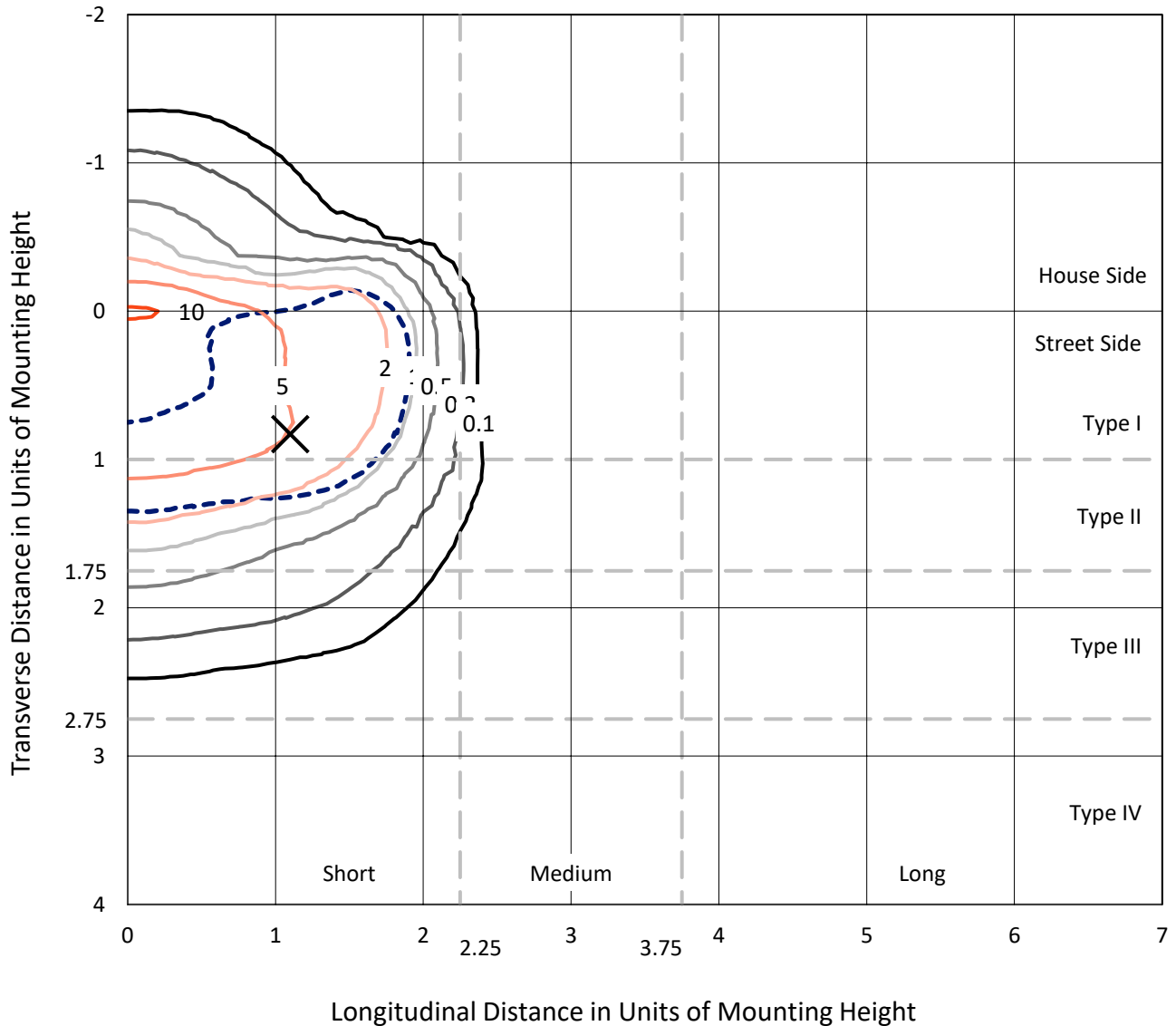
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

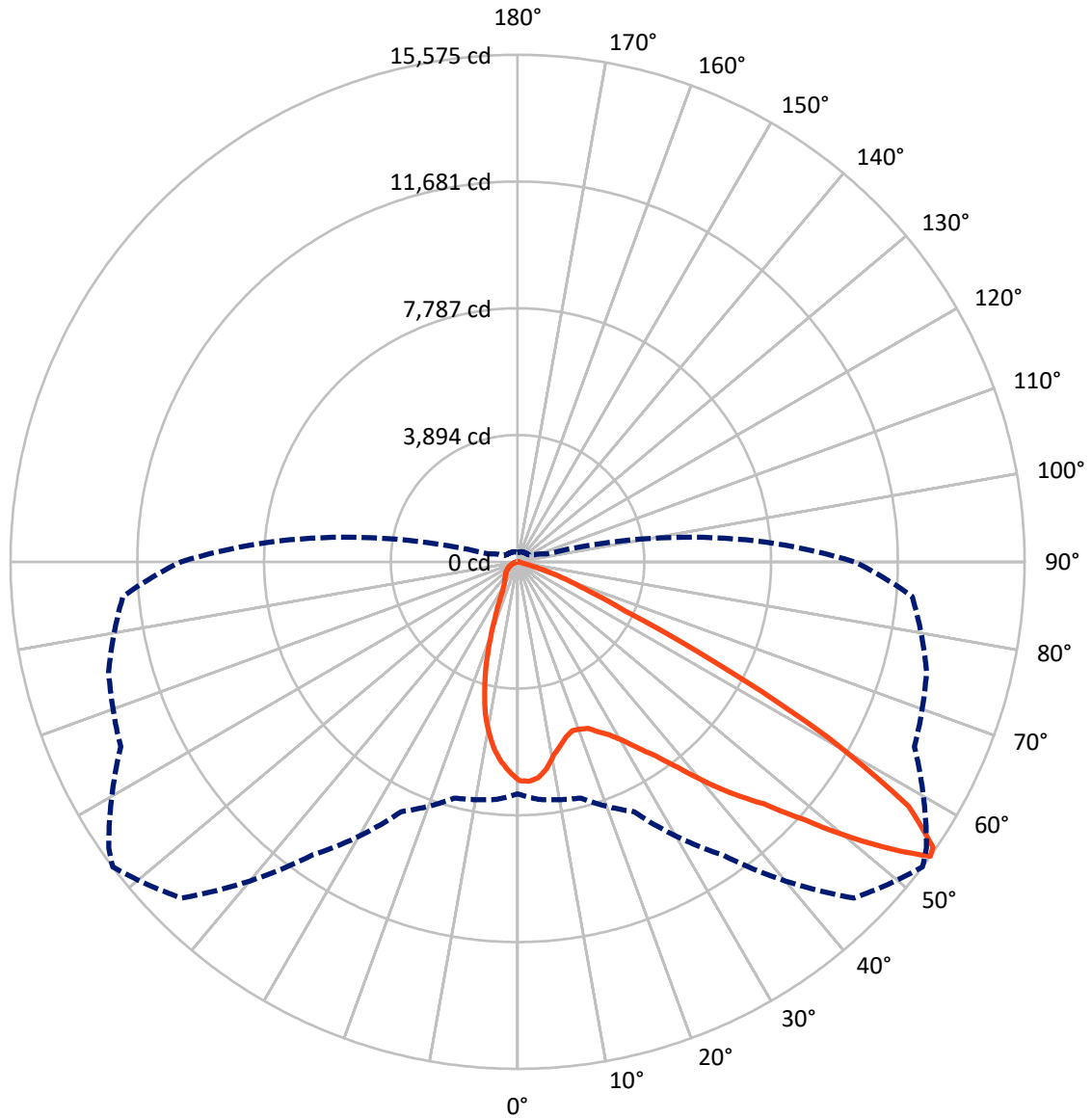
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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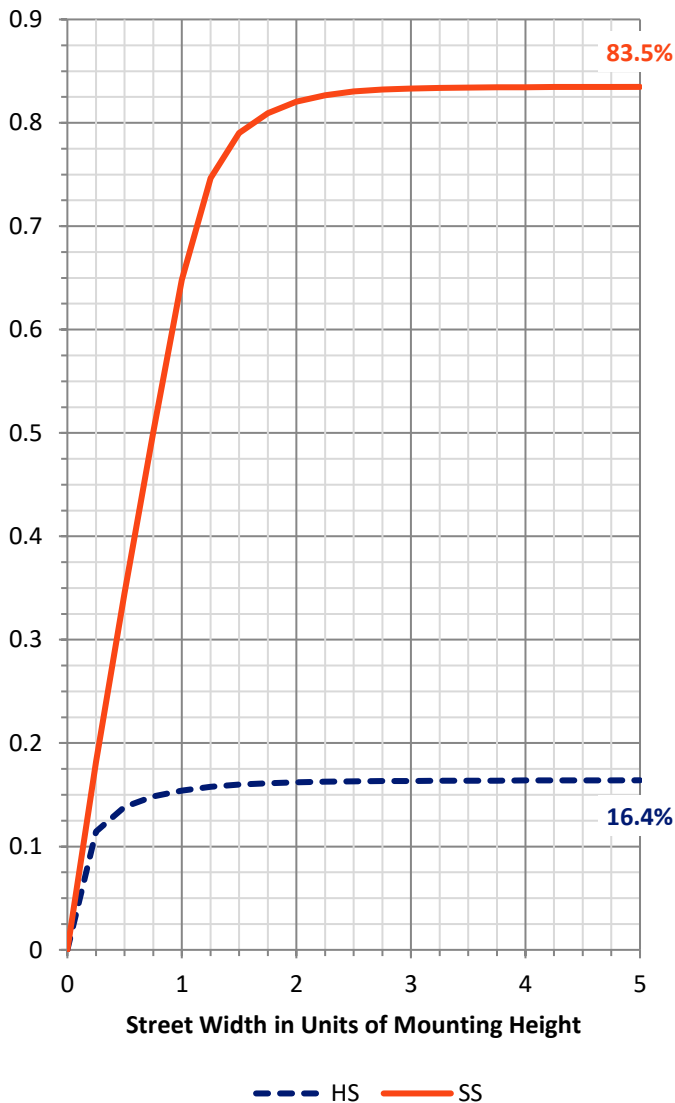
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3096.5	0.0	3096.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15618.6	0.0	15618.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18715.0	0.0	18715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.7	3.1
10°-20°	1322.3	7.1
20°-30°	1879.3	10.0
30°-40°	2900.2	15.5
40°-50°	4547.2	24.3
50°-60°	5282.2	28.2
60°-70°	1995.9	10.7
70°-80°	189.8	1.0
80°-90°	21.4	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°	18715.0	100.0
0°-180°	18715.0	100.0

**Coefficient of Utilization**

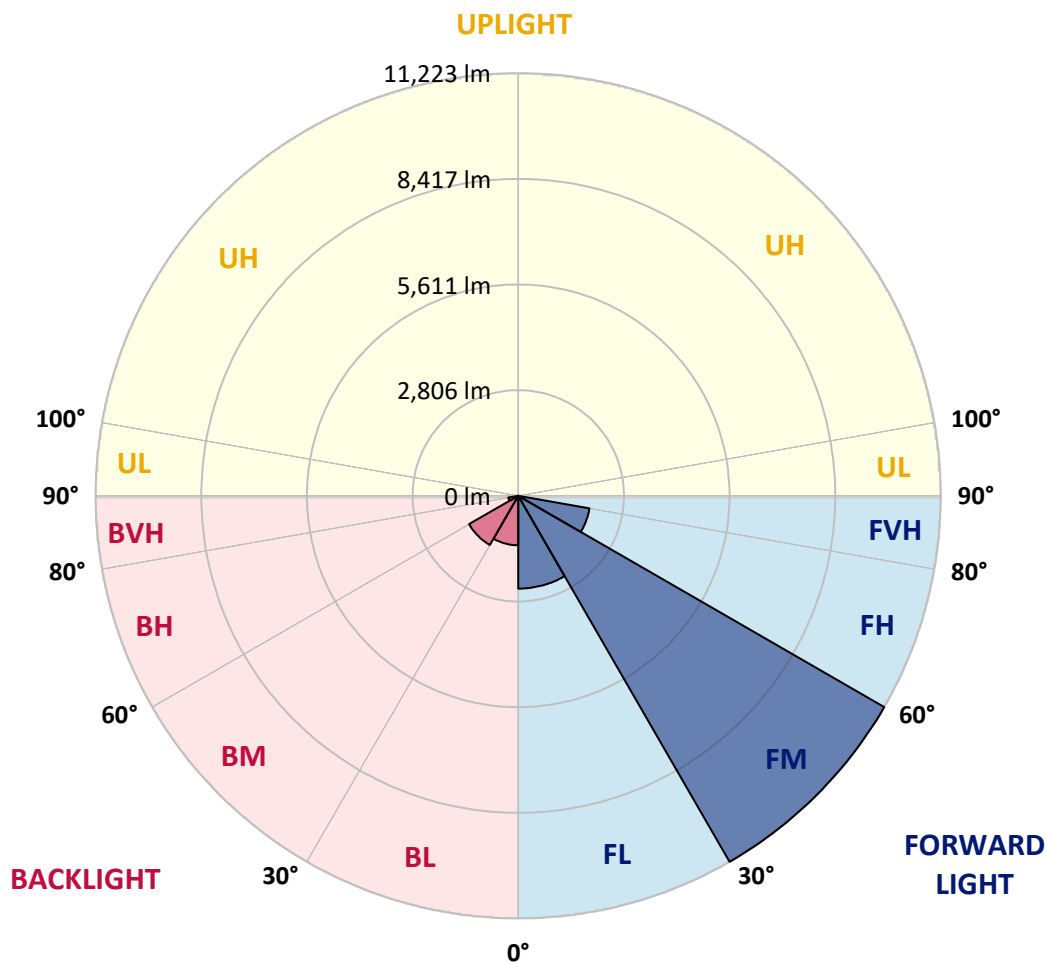


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2464.3	13.2			
FM (30°-60°)	11222.8	60.0			
FH (60°-80°)	1920.4	10.3			G2/5000
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1314.0	7.0	B3/2500		
BM (30°-60°)	1506.8	8.1	B2/2500		
BH (60°-80°)	265.3	1.4	B1/500		G1/500
BVH (80°-90°)	10.3	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°	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1
2.5°	6687.2	6628.0	6687.2	6694.2	6736.1	6774.4	6750.0	6805.8	6774.4	6739.5	6729.1
5°	6146.8	6227.0	6230.5	6356.0	6328.1	6558.2	6659.4	6631.5	6802.3	6791.8	6767.4
7.5°	5662.2	5630.8	5672.7	5819.1	6003.9	6268.9	6415.3	6411.8	6655.9	6830.2	6812.8
10°	5212.4	5208.9	5296.1	5411.2	5568.1	5847.0	6049.2	6150.3	6530.4	6795.3	6833.7
12.5°	4909.1	4895.1	4989.3	5083.4	5331.0	5547.1	5805.1	5854.0	6289.8	6673.3	6736.1
15°	4710.4	4741.7	4748.7	4930.0	5086.9	5372.8	5575.0	5676.1	6178.2	6575.7	6816.2
17.5°	4675.5	4717.3	4720.8	4870.7	5038.1	5278.7	5456.5	5592.5	6084.1	6624.5	6819.7
20°	4745.2	4720.8	4741.7	4835.9	4999.7	5229.9	5487.9	5533.2	6052.7	6648.9	6858.1
22.5°	4944.0	4937.0	4884.7	4961.4	5076.5	5317.0	5561.1	5630.8	6143.3	6774.4	6889.5
25°	5163.6	5202.0	5153.2	5142.7	5222.9	5460.0	5784.2	5874.9	6446.7	7001.0	6987.1
27.5°	5575.0	5536.7	5536.7	5487.9	5466.9	5582.0	6024.8	6174.7	6784.9	7293.9	7098.7
30°	5969.0	6010.9	5979.5	5996.9	5857.4	5847.0	6366.5	6551.3	7384.6	7740.2	7335.7
32.5°	6593.1	6537.3	6589.6	6544.3	6359.5	6171.2	6830.2	7022.0	8109.8	8252.7	7691.4
35°	7112.6	7088.2	7311.3	7304.4	7004.5	6819.7	7321.8	7607.7	8615.3	8866.4	8109.8
37.5°	7851.8	7806.4	8061.0	8183.0	7914.5	7639.1	8026.1	8357.3	9086.0	9358.0	8538.6
40°	8611.8	8726.9	9068.6	9270.8	8984.9	8618.8	8887.3	8988.4	9399.8	9678.7	8831.5
42.5°	9574.1	9741.5	10090.1	10264.5	10240.1	9842.6	9762.4	9758.9	9626.4	9588.1	9047.7
45°	10498.1	10435.3	10972.2	11352.3	11659.1	11544.0	10606.2	10501.6	9985.5	9724.1	9103.4
47.5°	10902.5	10881.6	11247.7	11924.1	12970.1	13113.0	11833.4	11429.0	10592.2	10295.8	9406.8
50°	10379.5	10487.6	10850.2	11599.8	13203.7	14294.9	13339.6	12795.7	11300.0	10993.2	10125.0
52.5°	8671.1	8744.3	9089.5	10041.3	12408.7	14992.3	14783.1	14469.3	12600.5	12091.4	11376.7
54°	7130.0	7325.3	7513.6	8468.9	10993.2	14605.3	15574.5	15333.9	13447.7	13004.9	12164.7
55°	6209.6	6324.6	6460.6	7412.5	10013.4	13949.8	15483.9	15504.8	14016.0	13290.8	12694.6
57.5°	4536.0	4616.2	4476.8	4898.6	6875.5	11327.9	14162.5	14727.3	14783.1	13719.7	13018.9
60°	3465.7	3500.5	3343.6	3409.9	4274.5	7775.1	10954.8	11634.7	13336.1	11990.3	11028.0
62.5°	2688.1	2695.1	2691.6	2806.7	2946.2	4574.4	6851.1	7454.3	9194.1	8514.2	7489.2
65°	1980.4	1949.0	2004.8	2353.4	2513.8	2876.4	3608.6	4047.9	4996.3	4218.8	3015.9
67.5°	1283.1	1293.5	1349.3	1750.3	2154.7	2207.0	2220.9	2186.1	2189.6	1206.4	756.6
70°	770.5	788.0	770.5	990.2	1541.1	1582.9	1446.9	1412.1	1101.8	285.9	282.4
72.5°	456.7	432.3	387.0	425.4	641.5	767.0	690.3	686.9	432.3	167.4	167.4
75°	191.8	174.3	142.9	129.0	170.8	163.9	163.9	146.4	115.1	111.6	104.6
77.5°	38.4	38.4	27.9	31.4	41.8	48.8	59.3	59.3	69.7	69.7	66.2
80°	0.0	3.5	10.5	20.9	31.4	45.3	52.3	52.3	59.3	59.3	48.8
82.5°	0.0	3.5	10.5	20.9	27.9	41.8	52.3	52.3	59.3	62.8	52.3
85°	0.0	3.5	10.5	17.4	27.9	34.9	34.9	31.4	24.4	20.9	13.9
87.5°	0.0	0.0	3.5	7.0	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1	6722.1
2.5°	6753.5	6750.0	6666.3	6530.4	6499.0	6383.9	6370.0	6300.2	6338.6	6209.6	6195.6
5°	6697.7	6655.9	6554.8	6467.6	6213.1	6031.8	5888.8	5714.5	5613.4	5630.8	5564.6
7.5°	6777.9	6669.8	6492.0	6188.7	5878.4	5561.1	5390.2	5034.6	4905.6	4713.8	4686.0
10°	6694.2	6614.0	6338.6	5836.5	5407.7	4950.9	4550.0	4156.0	3856.1	3727.1	3699.3
12.5°	6687.2	6547.8	6087.6	5529.7	4909.1	4253.6	3671.4	3179.8	2883.4	2716.0	2677.7
15°	6579.2	6411.8	5805.1	5055.5	4197.8	3382.0	2747.4	2273.2	2046.6	1949.0	1976.9
17.5°	6589.6	6338.6	5522.7	4553.5	3497.0	2482.4	1875.8	1631.7	1572.4	1596.9	1596.9
20°	6579.2	6174.7	5181.0	3974.7	2677.7	1722.4	1377.2	1290.0	1328.4	1405.1	1387.7
22.5°	6523.4	6098.0	4867.3	3364.5	1969.9	1276.1	1105.2	1108.7	1168.0	1262.1	1283.1
25°	6565.2	5927.2	4469.8	2747.4	1436.5	1018.1	958.8	983.2	1046.0	1115.7	1129.6
27.5°	6533.8	5805.1	4054.9	2133.8	1049.5	875.1	871.6	899.5	927.4	979.7	979.7
30°	6568.7	5693.6	3647.0	1586.4	864.7	801.9	788.0	808.9	836.8	847.2	843.8
32.5°	6697.7	5609.9	3176.3	1185.4	763.6	732.2	732.2	732.2	728.7	742.6	746.1
35°	6980.1	5623.8	2761.4	917.0	697.3	672.9	662.4	648.5	641.5	648.5	652.0
37.5°	7286.9	5616.9	2332.5	781.0	648.5	627.6	603.2	582.3	578.8	585.7	575.3
40°	7422.9	5683.1	1935.0	700.8	603.2	578.8	540.4	523.0	526.5	533.4	526.5
42.5°	7607.7	5704.0	1677.0	638.0	561.3	523.0	498.6	477.7	474.2	484.6	481.1
45°	7604.2	5585.5	1405.1	603.2	523.0	481.1	449.8	432.3	432.3	439.3	442.8
47.5°	7827.4	5568.1	1206.4	571.8	495.1	453.3	414.9	401.0	397.5	397.5	390.5
50°	8346.9	5812.1	1052.9	536.9	460.2	421.9	390.5	373.1	359.1	352.1	348.7
52.5°	9361.4	6572.2	934.4	495.1	421.9	390.5	362.6	348.7	331.2	313.8	310.3
54°	10344.7	7356.7	927.4	460.2	390.5	369.6	345.2	338.2	317.3	292.9	285.9
55°	10787.5	7813.4	951.8	432.3	369.6	355.6	334.7	327.7	306.8	278.9	275.4
57.5°	11153.5	7991.2	937.9	359.1	334.7	331.2	313.8	303.3	278.9	240.6	233.6
60°	8977.9	6042.2	672.9	317.3	306.8	299.8	285.9	278.9	247.5	205.7	202.2
62.5°	5672.7	3476.1	428.8	278.9	268.5	258.0	240.6	233.6	205.7	163.9	153.4
65°	2416.2	1440.0	289.4	247.5	230.1	212.7	198.7	188.3	163.9	122.0	118.5
67.5°	627.6	512.5	240.6	216.2	191.8	167.4	156.9	139.5	111.6	83.7	80.2
70°	282.4	258.0	202.2	181.3	153.4	129.0	115.1	97.6	73.2	55.8	52.3
72.5°	167.4	163.9	153.4	136.0	115.1	97.6	83.7	66.2	48.8	31.4	31.4
75°	104.6	101.1	104.6	94.1	80.2	73.2	62.8	45.3	27.9	13.9	13.9
77.5°	62.8	62.8	62.8	59.3	55.8	55.8	45.3	27.9	13.9	3.5	3.5
80°	48.8	48.8	52.3	48.8	48.8	48.8	38.4	20.9	7.0	0.0	0.0
82.5°	48.8	52.3	59.3	55.8	48.8	41.8	34.9	20.9	7.0	0.0	0.0
85°	13.9	10.5	17.4	24.4	34.9	31.4	24.4	17.4	7.0	0.0	0.0
87.5°	7.0	7.0	7.0	7.0	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)