

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: P522822

Luminaire Tested: **GALN-SA6D-730-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41808 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

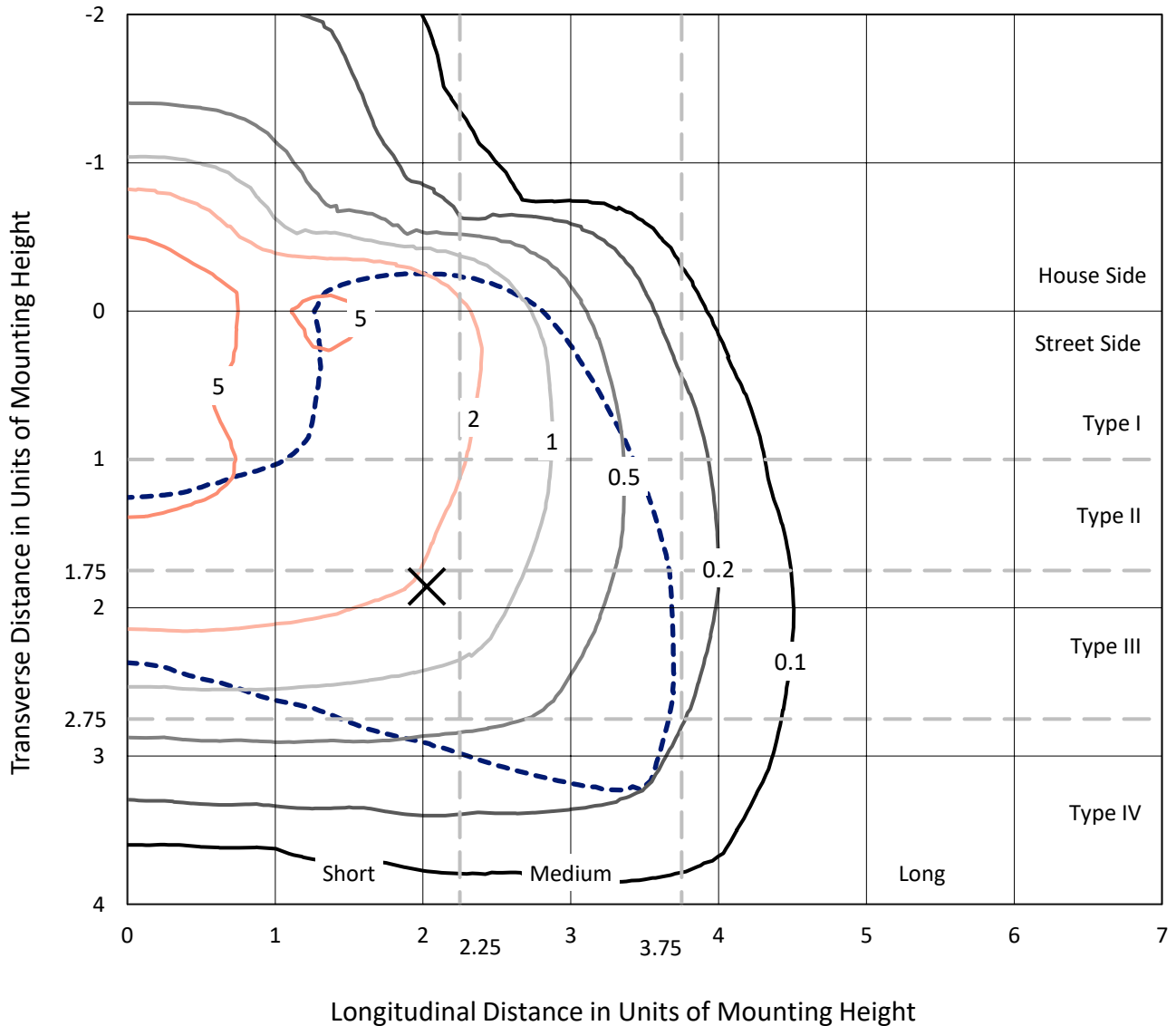
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

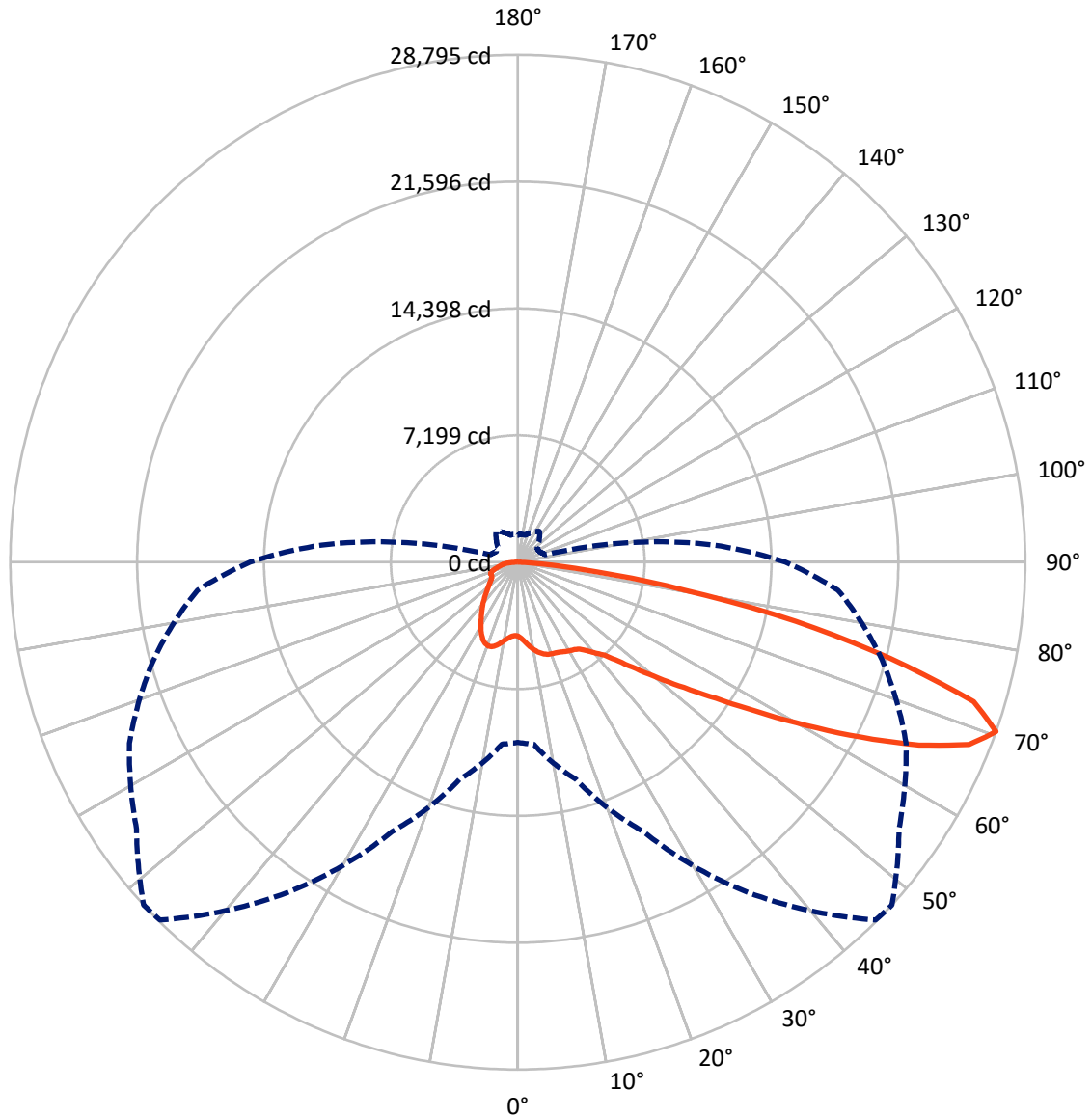
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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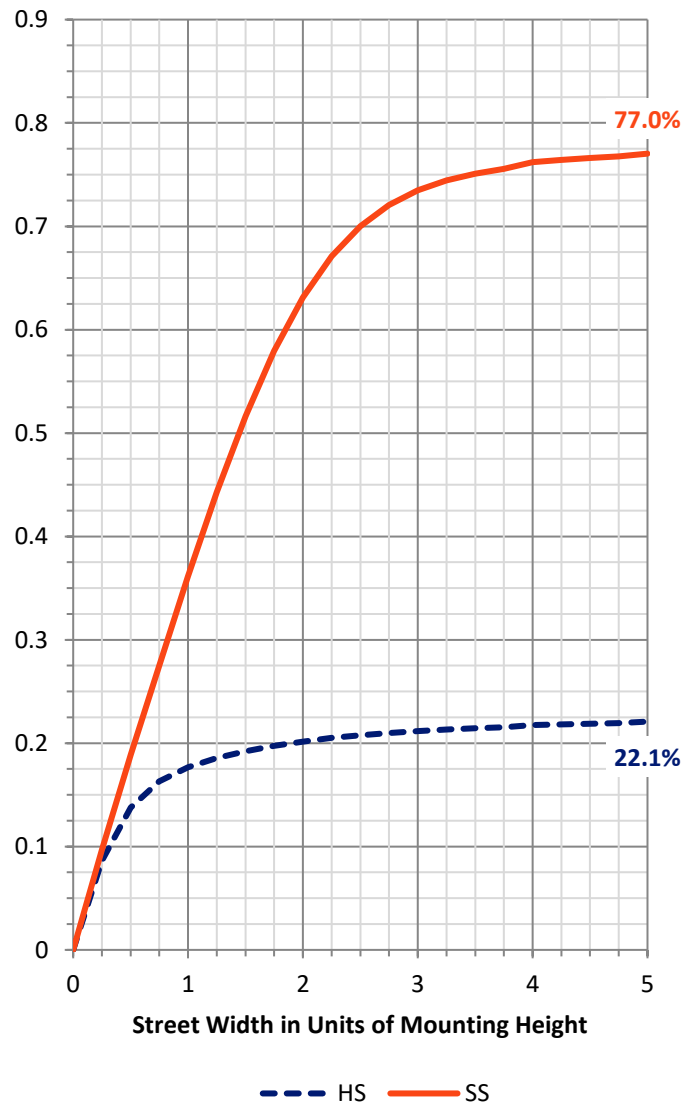
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9466.1	0.0	9466.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	32341.9	0.0	32341.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	41808.0	0.0	41808.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.6	1.0
10°-20°	1446.3	3.5
20°-30°	2405.2	5.8
30°-40°	3409.0	8.2
40°-50°	5032.4	12.0
50°-60°	8716.3	20.8
60°-70°	12312.0	29.4
70°-80°	7077.6	16.9
80°-90°	976.5	2.3
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°	41808.0	100.0
0°-180°	41808.0	100.0



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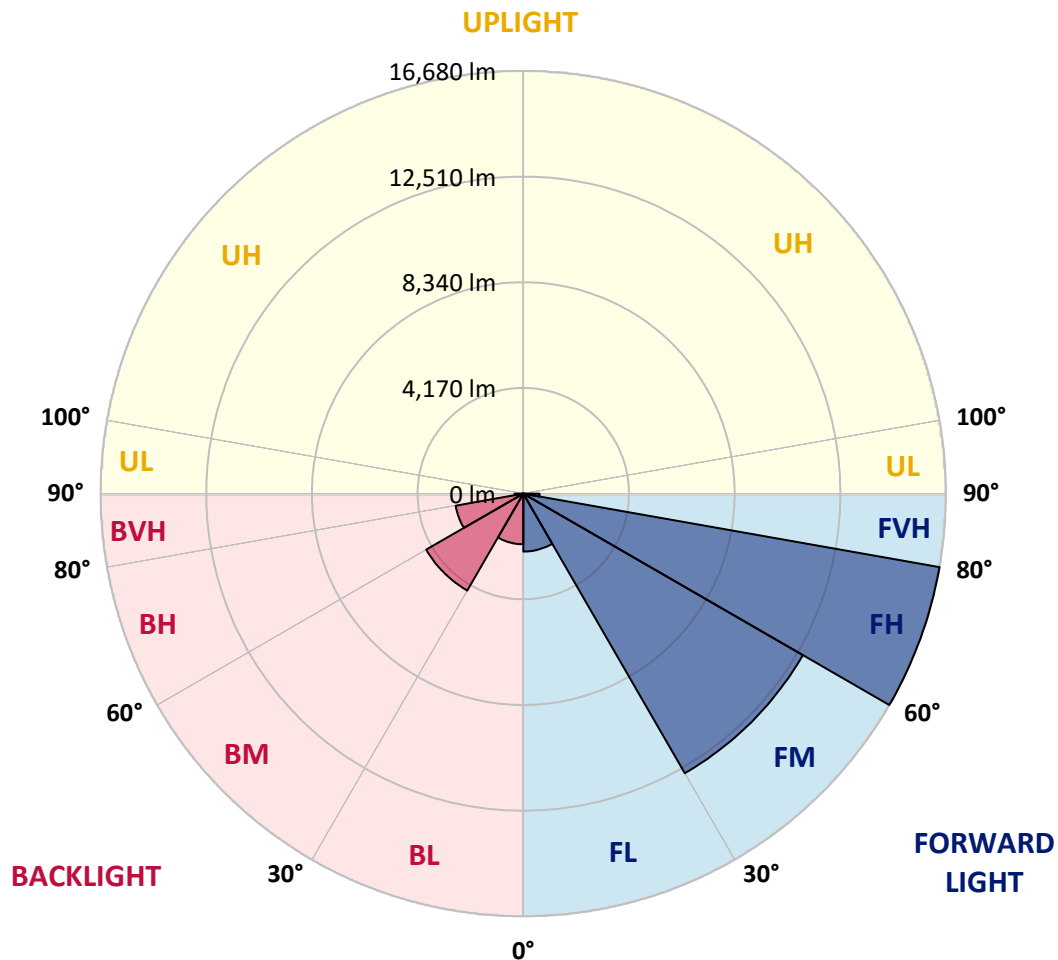
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2286.2	5.5			
FM	(30°-60°)	12738.1	30.5			
FH	(60°-80°)	16679.7	39.9			G5
FVH	(80°-90°)	637.9	1.5			G4/750
BL	(0°-30°)	1997.9	4.8	B3/2500		
BM	(30°-60°)	4419.6	10.6	B3/5000		
BH	(60°-80°)	2710.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	338.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0
2.5°	4467.7	4452.1	4449.8	4416.3	4398.4	4364.8	4351.4	4320.1	4282.0	4244.0	4208.2
5°	4819.0	4819.0	4803.3	4756.3	4682.5	4606.4	4572.9	4512.5	4405.1	4317.8	4244.0
7.5°	5179.2	5183.6	5152.3	5083.0	4977.8	4854.8	4823.4	4734.0	4581.8	4454.3	4344.7
10°	5490.1	5490.1	5447.6	5353.7	5221.7	5087.4	5056.1	4955.4	4785.4	4626.6	4483.4
12.5°	5727.3	5727.3	5671.3	5548.3	5405.1	5284.3	5248.5	5152.3	4993.5	4816.7	4635.5
15°	5881.6	5870.5	5807.8	5669.1	5530.4	5425.3	5400.6	5320.1	5174.7	4995.7	4792.1
17.5°	5888.4	5883.9	5823.5	5707.1	5586.3	5514.7	5499.1	5445.4	5331.3	5161.3	4946.5
20°	5758.6	5767.5	5727.3	5644.5	5586.3	5555.0	5548.3	5530.4	5449.9	5291.0	5076.2
22.5°	5619.9	5635.6	5597.5	5552.8	5548.3	5579.6	5584.1	5588.6	5537.1	5382.7	5185.9
25°	5586.3	5597.5	5559.5	5519.2	5543.8	5626.6	5644.5	5662.4	5622.1	5492.4	5315.6
27.5°	5756.4	5747.4	5673.6	5586.3	5602.0	5713.9	5738.5	5758.6	5738.5	5626.6	5476.7
30°	6237.4	6208.3	6060.6	5805.6	5725.0	5803.3	5828.0	5883.9	5883.9	5801.1	5651.2
32.5°	7042.8	6986.8	6716.1	6215.0	5935.3	5888.4	5913.0	6004.7	6051.7	5986.8	5823.5
35°	8020.4	7962.3	7575.2	6901.8	6320.1	6058.4	6051.7	6154.6	6279.9	6134.5	5921.9
37.5°	9002.6	8942.2	8476.8	7720.6	6881.7	6416.3	6376.1	6411.9	6465.6	6199.3	6058.4
40°	9984.7	9913.1	9505.9	8635.7	7568.5	6890.6	6785.5	6624.4	6602.0	6411.9	6322.4
42.5°	10957.9	10893.0	10687.2	9662.5	8391.8	7353.7	7192.7	6915.2	7000.3	6886.2	6807.9
45°	11940.0	11944.5	11725.3	10814.7	9385.1	8208.4	7991.3	7557.3	7758.7	7716.2	7760.9
47.5°	12810.3	12799.1	12720.8	11933.3	10617.8	9309.1	9029.4	8526.0	8870.6	9027.2	9369.5
50°	13653.7	13647.0	13651.5	13201.8	12049.7	10617.8	10309.1	9781.1	10557.4	11101.1	11714.1
52.5°	14861.8	14899.9	14629.2	14510.6	13790.2	12163.8	11823.7	11277.8	12550.8	13407.6	14604.6
55°	16074.4	16043.1	15830.6	15953.6	15611.3	13993.8	13638.1	13204.1	14770.1	15707.5	17506.2
57.5°	16788.1	16799.3	17016.3	17618.1	17859.7	16275.8	15953.6	15618.0	17264.6	17929.1	20088.0
60°	17430.2	17481.6	18105.8	19242.3	19897.8	19079.0	18792.6	18466.0	19553.3	19817.3	22329.7
62.5°	17631.5	17790.4	18879.9	20580.2	21884.5	22242.4	21886.7	21166.3	21732.3	21629.4	23848.7
65°	16627.0	16844.0	18797.1	21081.3	23658.6	25244.8	25018.8	23680.9	23589.2	22969.5	24097.1
67.5°	13982.6	14199.6	16707.5	20029.8	24392.4	27844.4	27618.5	25515.5	24716.8	23094.8	22217.8
70°	10230.8	10367.3	12765.6	16864.1	22918.1	28716.9	28795.2	26410.4	24314.1	21392.3	18242.3
72.5°	5895.1	6197.1	7877.2	11864.0	18723.3	26511.0	27054.7	24549.0	21768.1	17846.3	12754.4
75°	2534.8	2541.5	3642.2	6543.9	12680.5	21309.5	21835.2	20349.7	17094.6	12340.5	6810.1
77.5°	1205.9	1228.2	1601.8	2921.8	6980.1	14723.1	16141.5	14376.4	10933.3	5928.6	2572.8
80°	783.0	798.7	979.9	1449.7	3422.9	8537.2	9526.1	8293.4	4823.4	2118.6	1109.7
82.5°	474.3	478.8	655.5	885.9	1883.7	3865.9	4557.2	3599.7	2058.2	1268.5	653.3
85°	288.6	290.8	398.2	548.1	1143.2	1335.6	1371.4	1360.2	1208.1	830.0	349.0
87.5°	138.7	143.2	205.8	259.5	449.7	413.9	391.5	454.2	570.5	447.4	149.9
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°	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0	4197.0
2.5°	4192.5	4185.8	4170.2	4163.5	4159.0	4161.2	4159.0	4159.0	4161.2	4161.2	4161.2
5°	4212.7	4201.5	4176.9	4176.9	4190.3	4221.6	4250.7	4273.1	4297.7	4295.5	4295.5
7.5°	4299.9	4279.8	4250.7	4259.7	4293.2	4342.4	4393.9	4443.1	4492.3	4496.8	4494.6
10°	4427.5	4407.3	4376.0	4387.2	4440.9	4514.7	4579.6	4651.2	4704.9	4720.5	4716.1
12.5°	4572.9	4532.6	4505.8	4537.1	4622.1	4720.5	4783.2	4836.9	4874.9	4897.3	4888.3
15°	4720.5	4682.5	4651.2	4716.1	4819.0	4910.7	4942.0	4951.0	4957.7	4980.0	4975.6
17.5°	4863.7	4812.3	4801.1	4886.1	4984.5	5024.8	5006.9	4968.9	4939.8	4957.7	4955.4
20°	4991.2	4951.0	4946.5	5031.5	5069.5	5031.5	4955.4	4888.3	4836.9	4841.3	4839.1
22.5°	5112.0	5080.7	5085.2	5121.0	5060.6	4930.8	4805.5	4713.8	4657.9	4669.1	4675.8
25°	5246.3	5215.0	5226.1	5168.0	4968.9	4742.9	4561.7	4483.4	4461.0	4483.4	4499.0
27.5°	5420.8	5400.6	5393.9	5170.2	4805.5	4465.5	4259.7	4230.6	4250.7	4299.9	4324.5
30°	5608.7	5608.7	5572.9	5132.2	4581.8	4132.1	3953.2	3957.6	4027.0	4096.3	4121.0
32.5°	5789.9	5828.0	5716.1	5029.3	4293.2	3807.7	3671.3	3675.7	3736.2	3821.2	3843.5
35°	5939.8	6049.4	5839.1	4841.3	3953.2	3534.8	3431.9	3371.5	3373.7	3438.6	3456.5
37.5°	6145.6	6349.2	5910.7	4561.7	3590.7	3302.1	3185.8	3080.6	3011.3	2984.4	2984.4
40°	6503.6	6803.4	5928.6	4147.8	3248.4	3080.6	2915.1	2789.8	2655.6	2534.8	2512.4
42.5°	7109.9	7488.0	5892.8	3671.3	2939.7	2836.8	2675.7	2521.3	2335.7	2165.6	2152.2
45°	8183.7	8378.4	5796.6	3176.8	2664.5	2601.9	2445.3	2277.5	2080.6	1928.5	1917.3
47.5°	9904.2	9629.0	5669.1	2738.4	2414.0	2396.1	2275.3	2080.6	1883.7	1778.6	1767.4
50°	12416.6	11597.7	5651.2	2420.7	2212.6	2221.6	2123.1	1944.1	1771.9	1684.6	1671.2
52.5°	15441.3	13975.9	5769.8	2196.9	2035.9	2069.4	2020.2	1854.7	1702.5	1628.7	1615.3
55°	18376.5	16114.7	5841.4	2022.4	1870.3	1933.0	1939.7	1801.0	1662.3	1588.4	1579.5
57.5°	20759.1	17725.5	5523.7	1863.6	1727.1	1823.3	1872.6	1769.6	1642.1	1586.2	1577.2
60°	22416.9	18486.1	4619.9	1722.7	1622.0	1736.1	1847.9	1771.9	1691.3	1698.0	1702.5
62.5°	22944.9	18148.3	3465.5	1617.5	1550.4	1707.0	1888.2	1863.6	1780.8	1832.3	1841.2
65°	22070.2	16752.3	2512.4	1534.7	1487.7	1727.1	2009.0	1930.7	1749.5	1787.5	1787.5
67.5°	19141.6	14432.3	1955.3	1458.7	1416.2	1765.2	2129.8	1924.0	1675.7	1720.4	1680.2
70°	15184.0	11163.7	1628.7	1373.7	1340.1	1709.2	2141.0	1854.7	1588.4	1597.4	1521.3
72.5°	10076.4	7340.3	1400.5	1293.1	1223.8	1537.0	2049.3	1765.2	1503.4	1452.0	1375.9
75°	4937.5	3660.1	1221.5	1192.4	1071.6	1337.9	1924.0	1680.2	1411.7	1331.1	1288.6
77.5°	1912.8	1557.1	1042.5	1064.9	932.9	1179.0	1758.5	1559.3	1290.9	1181.3	1147.7
80°	928.4	883.7	854.6	888.2	767.4	1004.5	1606.3	1454.2	1179.0	1058.2	1009.0
82.5°	577.2	545.9	655.5	691.3	590.6	917.3	1523.5	1364.7	1038.1	877.0	836.7
85°	293.1	313.2	438.5	472.1	422.8	729.3	1255.1	1024.6	749.5	621.9	626.4
87.5°	111.9	149.9	230.4	248.3	226.0	384.8	691.3	597.3	481.0	326.6	302.0
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)