

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: P528882

Luminaire Tested: **GALN-SA4A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528882  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13965 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

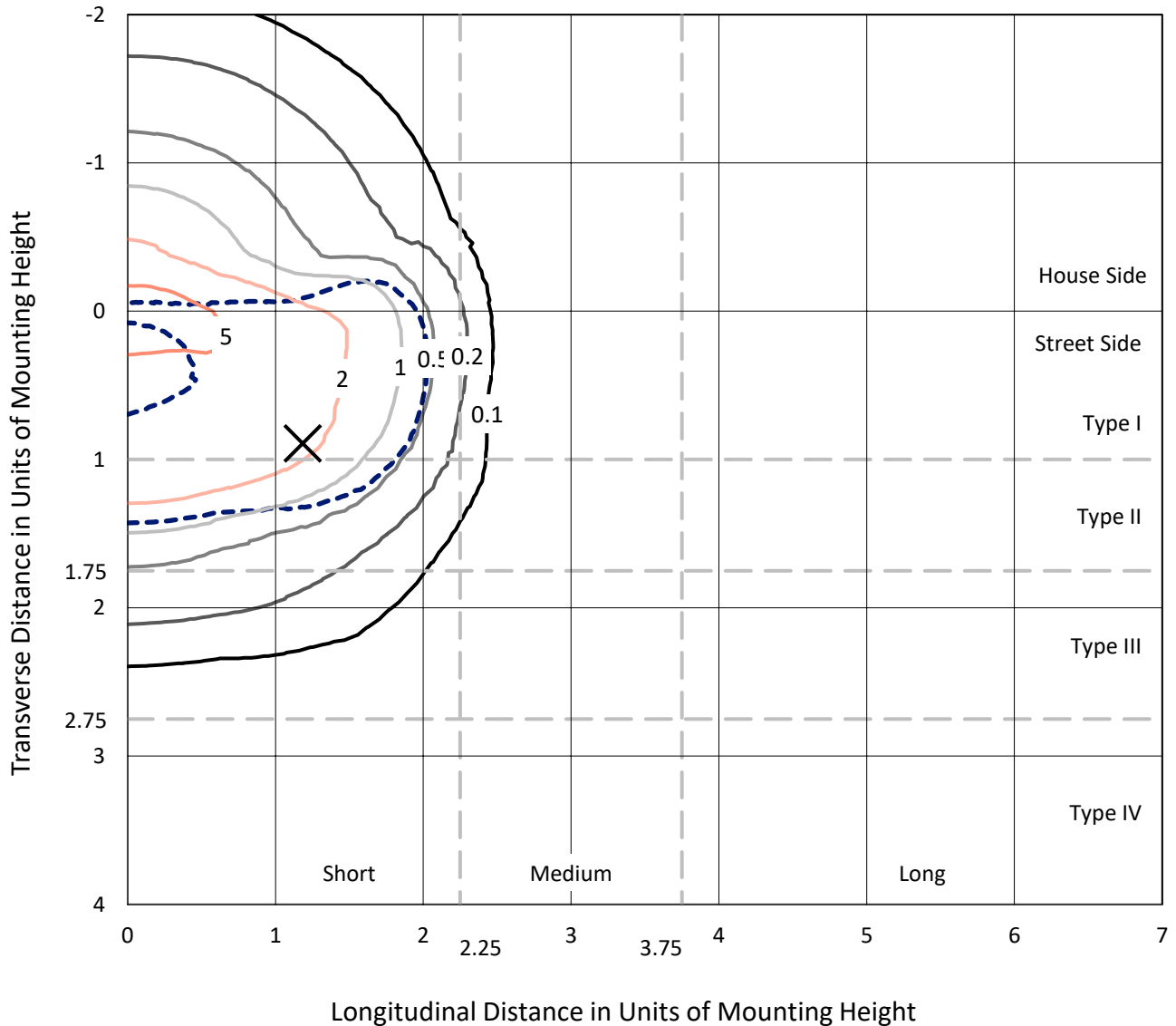
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

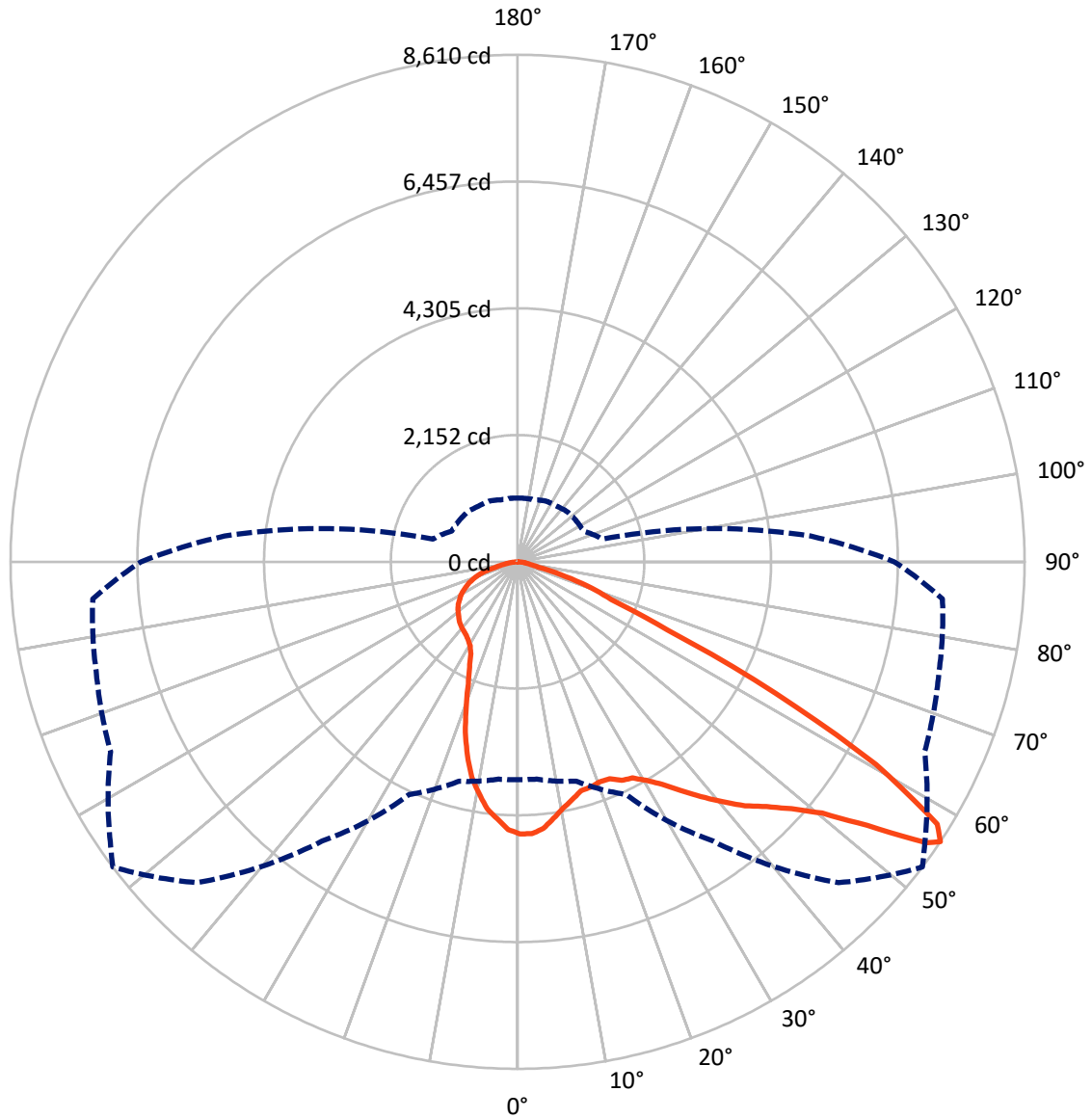
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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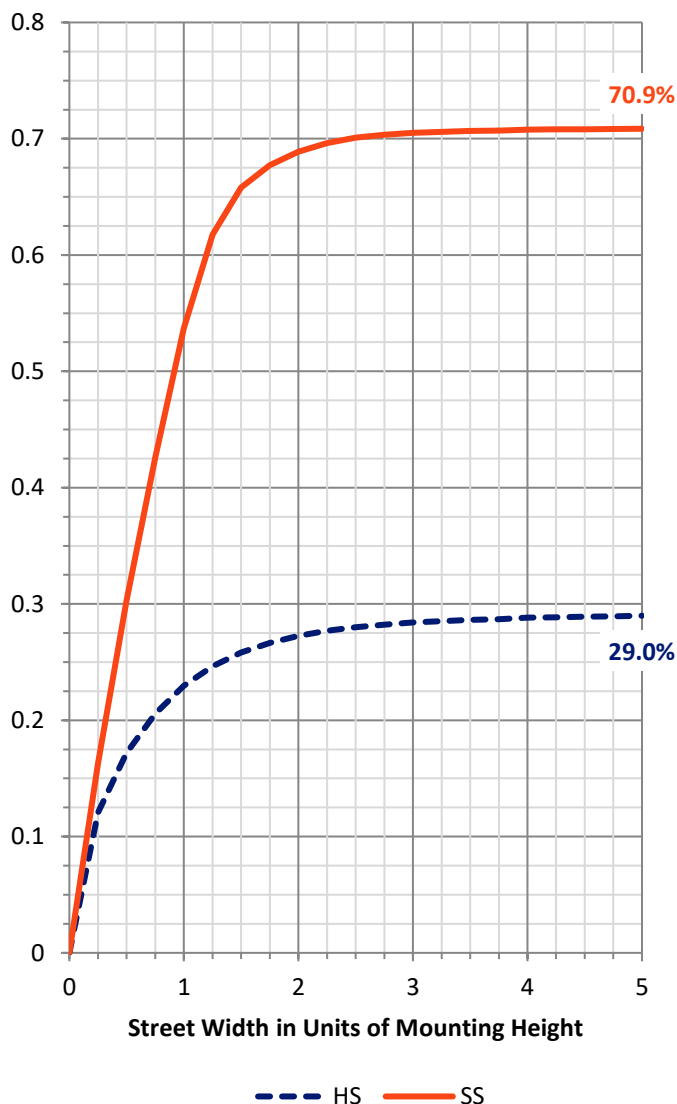
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4075.3	0.0	4075.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	9889.7	0.0	9889.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	13965.0	0.0	13965.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.0	2.9
10°-20°	1021.5	7.3
20°-30°	1506.4	10.8
30°-40°	2152.3	15.4
40°-50°	2962.3	21.2
50°-60°	3500.7	25.1
60°-70°	1865.6	13.4
70°-80°	473.3	3.4
80°-90°	73.8	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°	13965.0	100.0
0°-180°	13965.0	100.0

**Coefficient of Utilization**

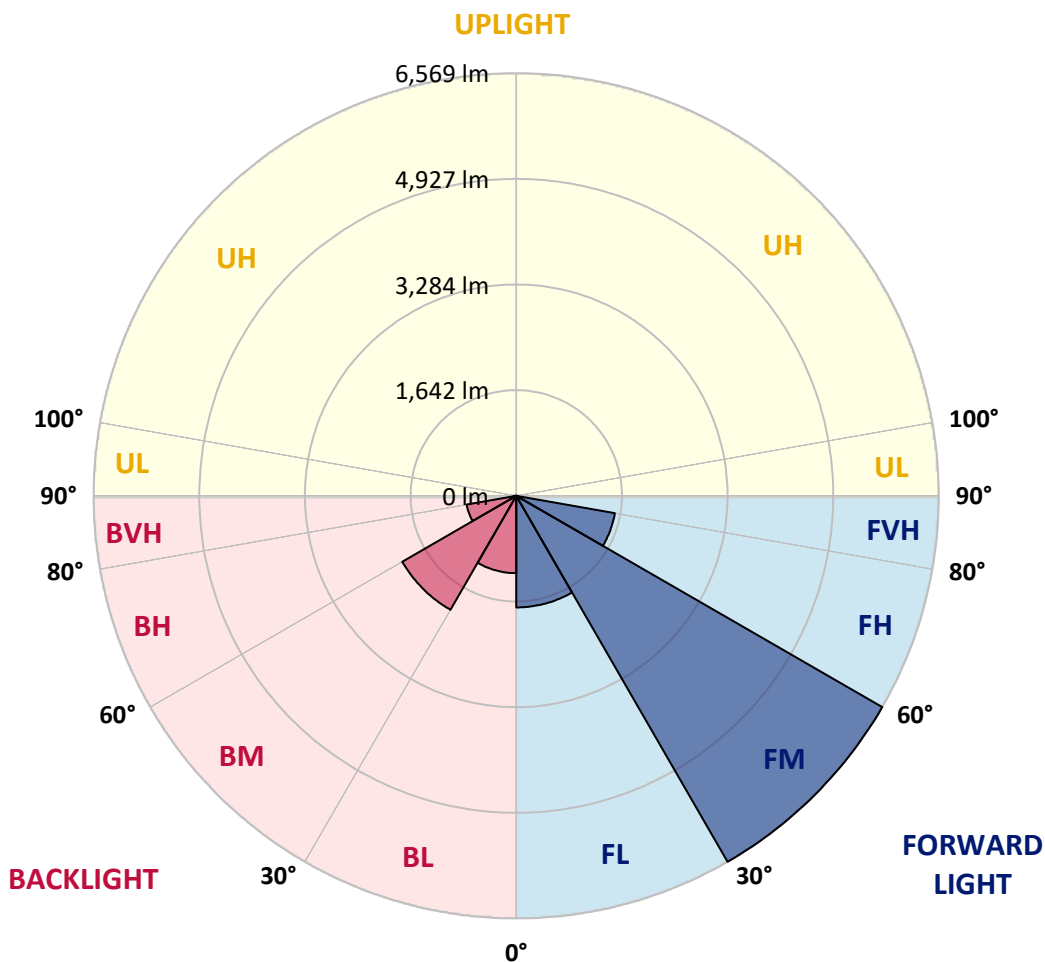


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.9	12.4			
FM (30°-60°)	6568.9	47.0			
FH (60°-80°)	1556.2	11.1			G1/1800
FVH (80°-90°)	29.7	0.2			G1/100
BL (0°-30°)	1202.0	8.6	B3/2500		
BM (30°-60°)	2046.5	14.7	B2/2500		
BH (60°-80°)	782.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	44.1	0.3			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°	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2
2.5°	4562.8	4523.4	4546.7	4537.8	4611.2	4632.7	4622.0	4630.9	4672.1	4652.4	4611.2
5°	4263.7	4319.2	4330.0	4356.8	4399.8	4484.0	4550.3	4568.2	4587.9	4679.3	4670.3
7.5°	3991.4	4029.0	4009.3	4088.1	4181.3	4317.4	4398.0	4412.4	4593.3	4643.5	4681.1
10°	3819.4	3781.8	3871.3	3892.8	3998.5	4154.4	4251.1	4310.2	4475.1	4673.9	4697.2
12.5°	3660.0	3647.4	3701.2	3762.1	3880.3	4041.5	4140.1	4163.4	4417.7	4627.3	4736.6
15°	3541.7	3527.4	3581.1	3625.9	3763.9	3907.2	4032.6	4098.9	4355.0	4600.5	4702.6
17.5°	3448.6	3446.8	3477.2	3557.8	3699.4	3819.4	4021.8	4025.4	4322.8	4641.7	4731.2
20°	3443.2	3441.4	3446.8	3536.3	3665.3	3812.2	3987.8	4020.0	4322.8	4613.0	4733.0
22.5°	3488.0	3459.3	3491.6	3548.9	3642.0	3824.8	4000.3	4072.0	4426.7	4754.5	4813.6
25°	3559.6	3566.8	3584.7	3604.4	3658.2	3853.4	4111.4	4170.5	4548.5	4876.4	4924.7
27.5°	3690.4	3686.8	3694.0	3704.7	3751.3	3880.3	4156.2	4308.5	4802.9	5093.1	5044.7
30°	3882.1	3869.6	3898.2	3935.8	3892.8	3966.3	4304.9	4419.5	5039.4	5311.7	5179.1
32.5°	4055.9	4102.4	4156.2	4172.3	4120.4	4134.7	4501.9	4618.4	5236.4	5580.4	5343.9
35°	4272.6	4310.2	4381.9	4432.1	4423.1	4380.1	4770.7	4924.7	5521.3	5777.5	5517.7
37.5°	4484.0	4528.8	4647.0	4795.7	4713.3	4693.6	5057.3	5184.5	5609.1	5883.2	5644.9
40°	4824.4	4822.6	5026.8	5103.9	5177.3	5143.3	5354.7	5397.7	5655.6	5859.9	5648.5
42.5°	5223.9	5198.8	5406.6	5526.7	5621.6	5625.2	5664.6	5650.3	5677.1	5741.6	5610.8
45°	5603.7	5657.4	5867.0	6082.0	6177.0	6187.7	5926.1	5899.3	5714.8	5707.6	5539.2
47.5°	6067.7	6080.2	6252.2	6535.2	6755.6	6680.4	6264.7	6205.6	5879.6	5935.1	5659.2
50°	6094.5	6187.7	6341.8	6675.0	7352.1	7332.4	6703.6	6592.6	6144.7	6257.6	5994.2
52.5°	5532.0	5510.5	5693.3	6237.9	7307.4	7980.9	7431.0	7165.8	6714.4	6628.4	6537.0
55°	4215.3	4265.5	4426.7	4976.7	6345.3	7989.9	8421.6	8204.9	7323.5	7176.6	7070.9
56°	3697.6	3704.7	3857.0	4358.6	5790.0	7705.1	8609.8	8434.2	7626.2	7402.3	7241.1
57.5°	3065.2	3024.0	3102.8	3376.9	4887.1	7103.1	8403.7	8575.7	7980.9	7645.9	7422.0
60°	2413.1	2404.1	2371.9	2422.1	3088.5	5351.1	6995.6	7382.6	7945.1	7416.6	7108.5
62.5°	1970.6	1925.8	1990.3	2062.0	2146.2	3319.6	4915.8	5143.3	6307.7	5920.8	5340.3
65°	1528.1	1506.6	1587.2	1820.1	1870.3	2108.5	2800.1	2975.6	3724.4	3658.2	3221.0
67.5°	1051.6	1055.2	1125.0	1479.7	1734.1	1712.6	1714.4	1805.8	1943.7	1443.9	1257.6
70°	666.4	664.6	702.3	953.1	1395.5	1409.9	1338.2	1311.3	1243.3	752.4	797.2
72.5°	428.2	415.6	435.3	526.7	722.0	834.8	859.9	876.0	720.2	591.2	641.3
75°	241.8	229.3	222.1	245.4	284.8	329.6	361.9	372.6	417.4	447.9	474.7
77.5°	73.4	66.3	80.6	107.5	141.5	189.9	231.1	238.3	281.3	317.1	344.0
80°	32.2	35.8	50.2	71.7	100.3	134.4	163.0	173.8	202.4	229.3	236.5
82.5°	19.7	21.5	34.0	48.4	69.9	94.9	116.4	120.0	148.7	170.2	175.6
85°	7.2	9.0	17.9	28.7	44.8	60.9	60.9	66.3	60.9	60.9	66.3
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	7.2	7.2	9.0	10.7	12.5
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°	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2	4620.2
2.5°	4632.7	4623.8	4609.4	4557.5	4552.1	4536.0	4446.4	4432.1	4446.4	4403.4	4407.0
5°	4623.8	4650.6	4543.1	4491.2	4394.4	4324.6	4244.0	4202.8	4129.3	4082.7	4134.7
7.5°	4663.2	4652.4	4518.1	4405.2	4260.1	4082.7	3941.2	3860.6	3731.6	3695.8	3722.7
10°	4648.8	4591.5	4433.9	4285.2	4011.1	3855.2	3625.9	3403.8	3282.0	3219.3	3210.3
12.5°	4629.1	4613.0	4349.7	4093.5	3805.1	3477.2	3154.8	2945.2	2746.3	2660.3	2672.9
15°	4652.4	4516.3	4192.0	3867.8	3484.4	3054.4	2706.9	2436.4	2298.4	2242.9	2242.9
17.5°	4641.7	4469.7	4116.8	3615.2	3129.7	2620.9	2239.3	2076.3	2019.0	2019.0	2035.1
20°	4647.0	4500.1	3964.5	3362.6	2710.5	2207.1	1929.4	1870.3	1895.4	1904.3	1913.3
22.5°	4677.5	4399.8	3815.8	3084.9	2321.7	1888.2	1752.0	1753.8	1798.6	1847.0	1838.0
25°	4715.1	4360.4	3634.9	2809.0	2024.3	1732.3	1689.3	1684.0	1718.0	1743.1	1746.7
27.5°	4682.9	4292.3	3450.3	2465.0	1780.7	1628.4	1619.5	1623.1	1633.8	1684.0	1667.8
30°	4788.6	4312.0	3219.3	2176.6	1646.4	1594.4	1583.6	1578.3	1594.4	1608.7	1596.2
32.5°	4919.3	4242.2	3047.3	1898.9	1580.1	1569.3	1547.8	1540.7	1549.6	1535.3	1542.4
35°	4976.7	4229.6	2823.3	1700.1	1528.1	1519.2	1506.6	1504.8	1506.6	1494.1	1483.3
37.5°	5008.9	4288.8	2567.2	1608.7	1495.9	1504.8	1476.2	1472.6	1440.3	1447.5	1452.9
40°	5064.5	4197.4	2359.4	1520.9	1476.2	1458.2	1433.2	1427.8	1406.3	1393.8	1406.3
42.5°	4983.8	4170.5	2155.1	1483.3	1447.5	1427.8	1409.9	1379.4	1372.3	1361.5	1354.3
45°	4919.3	4016.5	1972.4	1436.7	1413.5	1402.7	1368.7	1336.4	1309.6	1320.3	1304.2
47.5°	4967.7	3962.7	1791.5	1397.3	1366.9	1354.3	1320.3	1295.2	1268.4	1255.8	1252.2
50°	5161.2	4063.0	1639.2	1368.7	1327.5	1320.3	1275.5	1246.9	1221.8	1212.8	1216.4
52.5°	5623.4	4337.1	1535.3	1309.6	1289.9	1257.6	1232.5	1196.7	1180.6	1151.9	1169.8
55°	6209.2	4783.2	1508.4	1254.0	1243.3	1214.6	1180.6	1153.7	1123.2	1100.0	1094.6
56°	6397.3	4996.4	1486.9	1232.5	1214.6	1198.5	1153.7	1137.6	1089.2	1083.8	1080.2
57.5°	6549.6	5184.5	1490.5	1191.3	1173.4	1159.1	1132.2	1092.8	1060.5	1040.8	1049.8
60°	6205.6	4853.1	1422.4	1128.6	1125.0	1098.2	1060.5	1042.6	1003.2	979.9	974.6
62.5°	4613.0	3294.5	1153.7	1048.0	1046.2	1017.5	974.6	954.8	947.7	915.4	915.4
65°	2656.7	2065.6	997.8	981.7	967.4	938.7	895.7	879.6	861.7	850.9	842.0
67.5°	1134.0	1071.3	906.5	904.7	888.6	852.7	809.7	784.7	761.4	739.9	750.6
70°	822.3	834.8	818.7	809.7	790.0	745.2	707.6	677.2	641.3	627.0	637.8
72.5°	652.1	679.0	702.3	704.0	680.8	628.8	587.6	546.4	507.0	487.3	496.2
75°	494.4	512.4	535.6	541.0	507.0	471.2	431.7	388.7	358.3	335.0	338.6
77.5°	356.5	352.9	374.4	370.8	354.7	329.6	293.8	254.4	220.3	198.9	200.6
80°	243.6	249.0	261.6	259.8	240.1	223.9	197.1	164.8	139.7	121.8	118.2
82.5°	170.2	179.1	189.9	180.9	164.8	148.7	129.0	105.7	86.0	71.7	68.1
85°	60.9	69.9	80.6	86.0	91.4	87.8	73.4	59.1	43.0	35.8	34.0
87.5°	12.5	14.3	16.1	16.1	16.1	14.3	12.5	12.5	10.7	5.4	5.4
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)