

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: P530534

Luminaire Tested: **GALN-SA5D-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30799 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

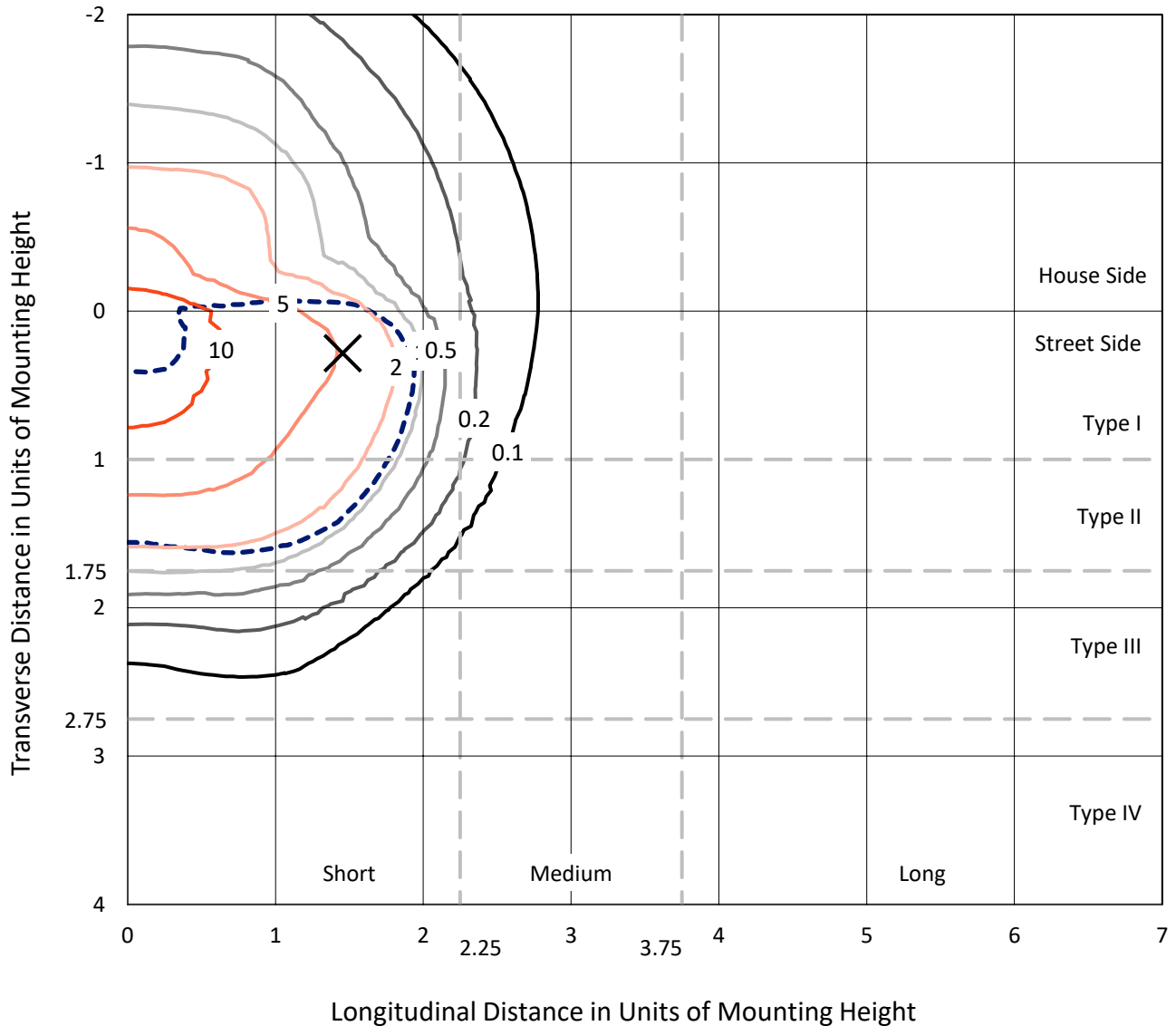
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

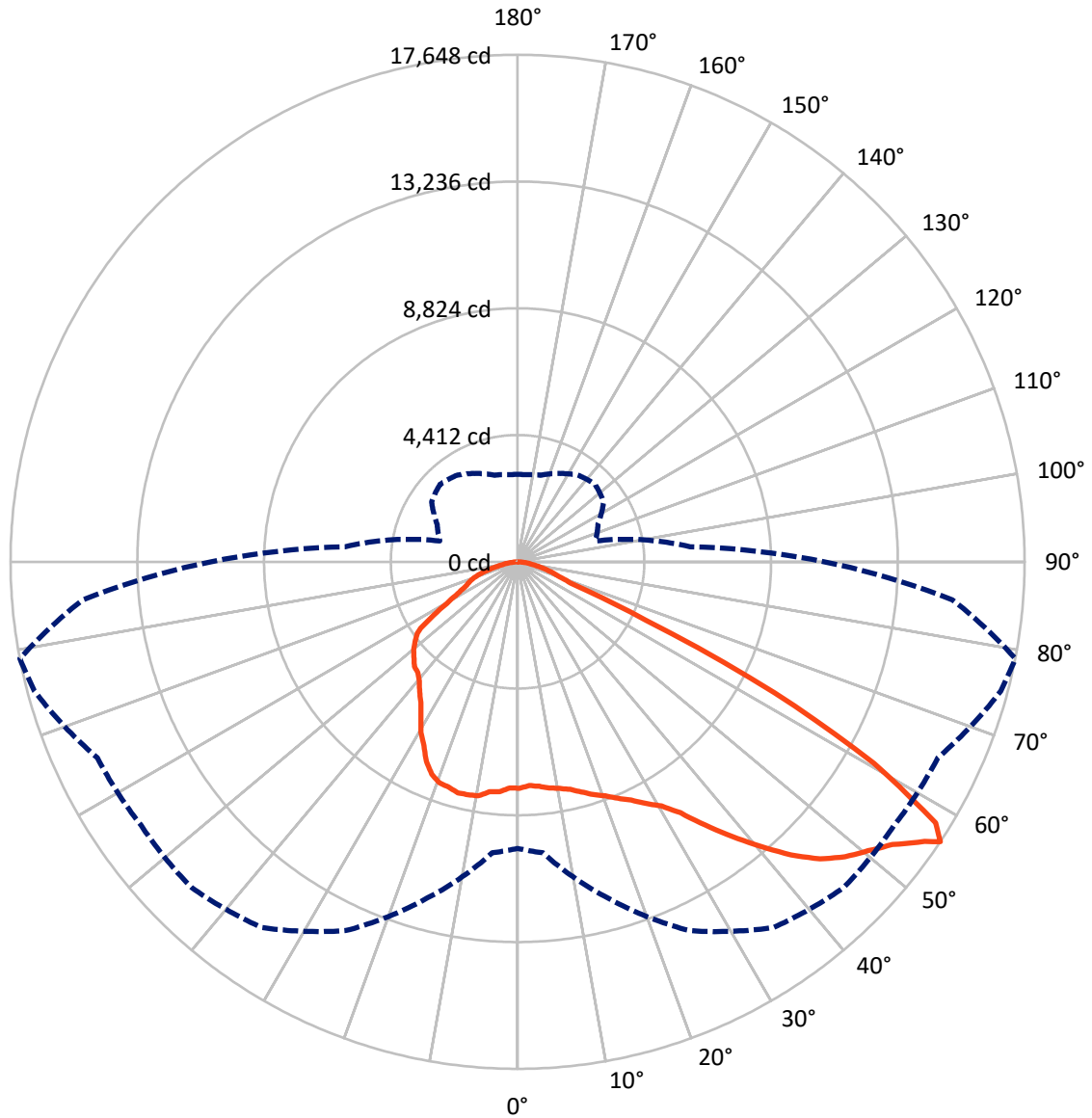
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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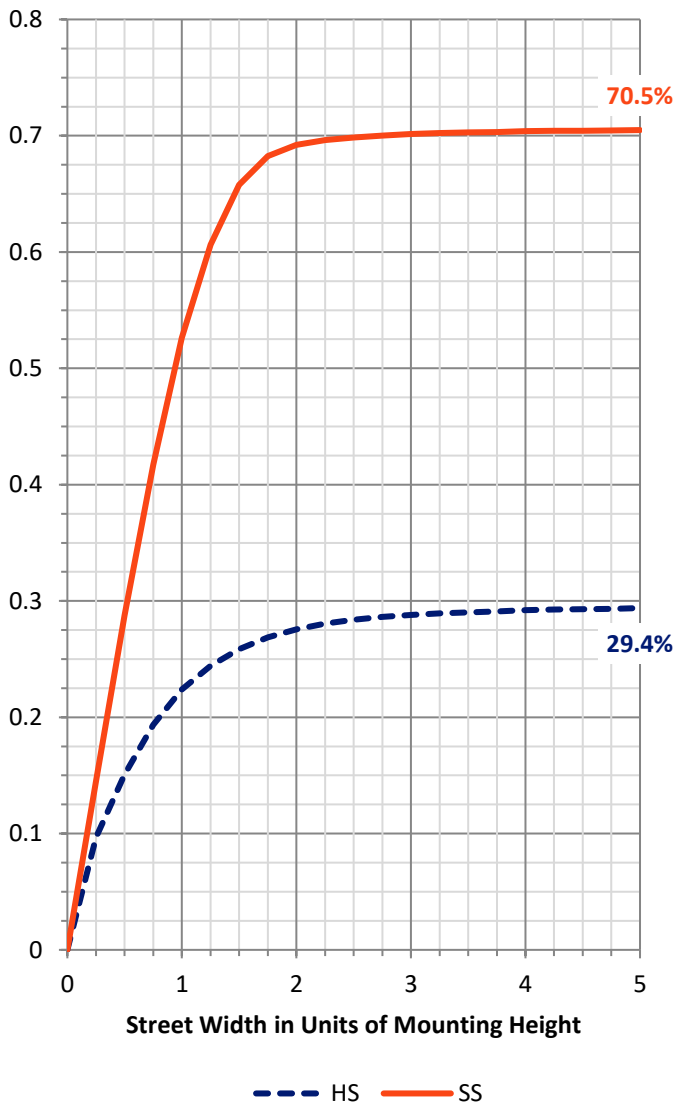
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9095.6	0.0	9095.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	21703.4	0.0	21703.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	30799.0	0.0	30799.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.5	2.3
10°-20°	1960.8	6.4
20°-30°	3354.5	10.9
30°-40°	5141.2	16.7
40°-50°	6948.3	22.6
50°-60°	7980.3	25.9
60°-70°	3637.7	11.8
70°-80°	896.9	2.9
80°-90°	163.0	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°	30799.0	100.0
0°-180°	30799.0	100.0



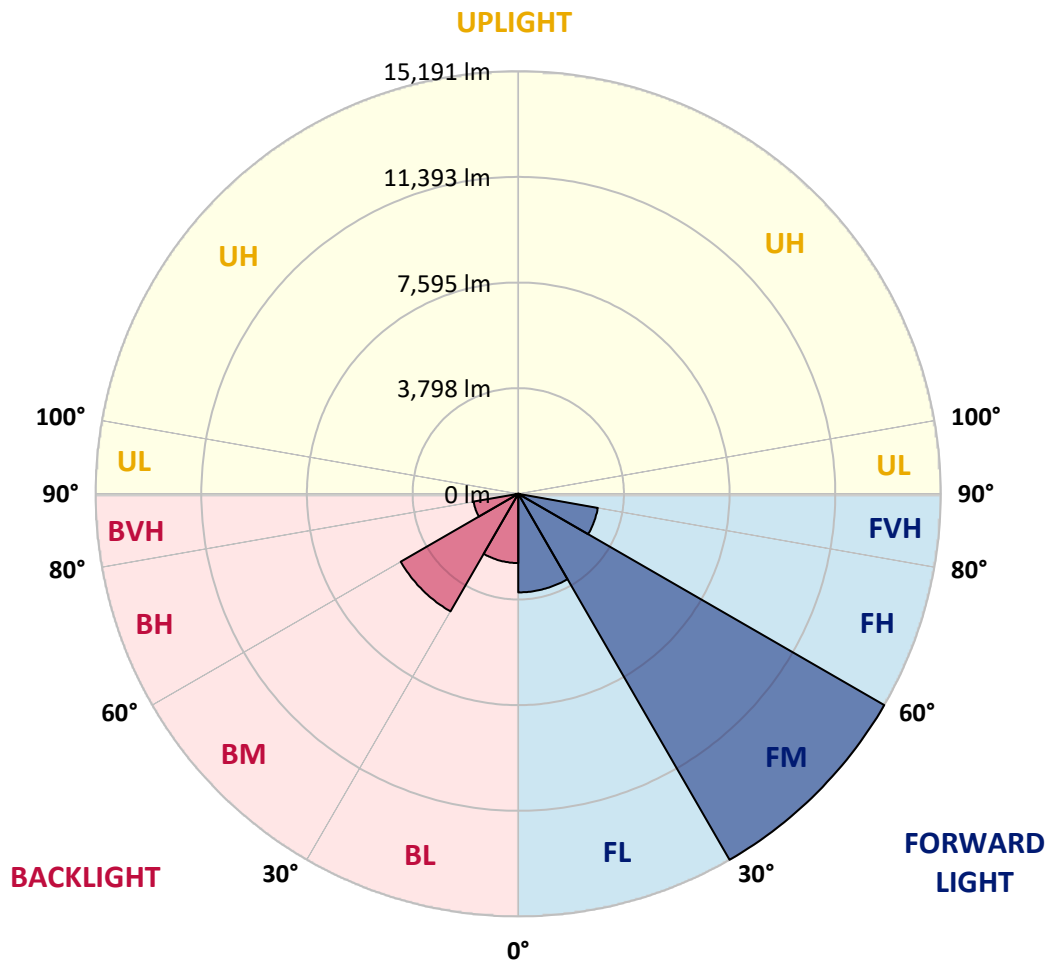
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3543.7	11.5			
FM (30°-60°)	15191.0	49.3			
FH (60°-80°)	2903.6	9.4			G2/5000
FVH (80°-90°)	65.1	0.2			G1/100
BL (0°-30°)	2488.0	8.1	B3/2500		
BM (30°-60°)	4878.8	15.8	B3/5000		
BH (60°-80°)	1630.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	97.9	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2
2.5°	7496.6	7477.4	7523.4	7558.0	7600.2	7653.9	7680.7	7696.1	7830.4	7795.8	7899.4
5°	7335.5	7285.6	7320.1	7347.0	7419.9	7485.1	7558.0	7673.1	7795.8	7849.6	7976.2
7.5°	7193.5	7166.6	7159.0	7178.2	7277.9	7362.3	7488.9	7657.7	7857.2	7945.5	8018.4
10°	6959.5	6921.1	6978.7	7105.3	7132.1	7308.6	7454.4	7696.1	7868.7	8022.2	8237.0
12.5°	6855.9	6817.5	6829.0	6901.9	7089.9	7258.7	7431.4	7703.8	8068.2	8129.6	8417.4
15°	7020.9	6982.5	6994.0	6974.8	7155.1	7243.4	7515.8	7857.2	8206.4	8309.9	8616.9
17.5°	7396.8	7400.7	7350.8	7308.6	7266.4	7454.4	7642.4	7949.3	8260.1	8520.9	8751.1
20°	8114.3	7987.7	7887.9	7650.1	7584.8	7665.4	7903.3	8198.7	8478.7	8693.6	8954.5
22.5°	8666.7	8678.2	8536.3	8145.0	8003.0	8037.5	8240.9	8482.6	8789.5	8943.0	9242.2
25°	9468.6	9388.0	9234.5	8923.8	8605.3	8632.2	8781.8	9000.5	9084.9	9192.3	9518.4
27.5°	10201.3	10224.4	9921.3	9629.7	9234.5	9157.8	9426.4	9464.7	9322.8	9526.1	9637.4
30°	10945.6	10926.5	10727.0	10385.5	9998.0	10013.4	10132.3	9944.3	9748.6	9859.9	9936.6
32.5°	11716.8	11498.1	11490.4	11183.5	10888.1	10746.1	10600.3	10692.4	10389.3	10412.4	10339.5
35°	12334.5	12365.2	12188.7	11970.0	11824.2	11574.8	11175.8	11340.8	11283.3	11256.4	10941.8
37.5°	12783.3	12664.4	12752.6	12679.8	12541.6	12230.9	11816.5	11973.8	12000.7	12131.1	11766.7
40°	13151.6	13101.8	13335.8	13374.2	13278.3	12606.9	11862.6	12330.6	12733.5	13017.4	12583.8
42.5°	13328.1	13435.5	13681.1	13976.5	13761.7	13044.2	12100.4	12603.0	13500.8	13949.6	13358.8
45°	13566.0	13427.9	13792.3	14333.3	14337.1	13412.5	12330.6	12971.3	14099.3	14751.5	13888.3
47.5°	13324.3	13393.3	13769.3	14456.1	14632.5	13800.0	12952.1	13493.1	14759.2	15338.5	14379.3
50°	12783.3	12921.5	13608.2	14321.8	14855.1	14210.5	13665.7	14057.1	15369.2	15810.4	14459.9
52.5°	12219.4	12296.1	13370.3	14425.4	14954.8	14740.0	14621.0	14835.9	16113.5	16343.6	14559.7
55°	10684.8	11049.2	12583.8	14379.3	15442.1	15695.3	15603.2	15917.8	16957.5	17187.7	15104.4
56°	9975.0	10166.8	12111.9	14164.5	15538.0	16044.4	15998.4	16140.3	17406.4	17648.1	15188.8
57.5°	8662.9	8678.2	10328.0	13213.0	15177.3	16148.0	16101.9	16213.2	17318.1	17153.2	14448.4
60°	5421.0	5658.9	7028.5	10163.0	12906.1	14981.7	15242.6	14348.6	14601.9	14252.7	11241.0
62.5°	2808.3	2773.8	3683.1	5942.8	8567.0	10727.0	10968.7	10926.5	10535.1	10024.9	7343.1
65°	1400.3	1408.0	1925.9	2942.6	4389.0	5616.7	6291.9	6364.8	5325.1	4899.3	3483.6
67.5°	1016.7	1055.0	1385.0	1799.3	2067.9	2313.4	2835.2	2781.5	2106.3	2002.7	1856.9
70°	790.3	824.9	1124.1	1373.5	1246.9	1246.9	1358.1	1404.2	1500.1	1542.3	1592.2
72.5°	575.5	602.3	859.4	947.6	817.2	878.6	1016.7	1124.1	1223.9	1239.2	1296.7
75°	395.2	418.2	564.0	521.8	491.1	606.2	744.3	844.0	916.9	955.3	989.8
77.5°	257.0	264.7	322.3	272.4	314.6	391.3	483.4	567.8	640.7	671.4	679.1
80°	115.1	126.6	138.1	172.6	218.7	280.1	345.3	414.3	460.4	471.9	494.9
82.5°	65.2	65.2	84.4	122.8	161.1	203.3	249.4	299.2	353.0	364.5	360.6
85°	34.5	34.5	49.9	72.9	99.7	118.9	115.1	118.9	126.6	145.8	142.0
87.5°	11.5	11.5	15.3	15.3	19.2	23.0	19.2	26.9	34.5	34.5	34.5
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°	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2	7880.2
2.5°	7868.7	7903.3	7857.2	7957.0	7957.0	7937.8	7841.9	7872.6	7895.6	7895.6	7914.8
5°	8018.4	8006.9	8037.5	7918.6	7845.7	7818.9	7661.6	7584.8	7519.6	7515.8	7458.2
7.5°	8102.8	8072.1	8060.6	7972.3	7650.1	7454.4	7116.8	6921.1	6878.9	6729.3	6786.8
10°	8237.0	8294.6	8237.0	7757.5	7308.6	6859.7	6529.8	6226.7	6107.8	6011.9	5954.3
12.5°	8513.3	8486.4	8152.6	7504.3	6875.1	6341.8	5850.7	5532.3	5413.4	5328.9	5321.3
15°	8747.3	8613.0	8102.8	7105.3	6199.8	5632.0	5229.2	5002.8	4949.1	4956.8	4991.3
17.5°	8827.9	8735.8	7841.9	6690.9	5697.3	5029.7	4841.7	4807.2	4857.1	4914.6	4929.9
20°	8954.5	8808.7	7734.5	6126.9	5075.7	4653.7	4642.2	4765.0	4857.1	4941.5	4953.0
22.5°	9219.2	8850.9	7385.3	5593.7	4649.9	4542.5	4653.7	4757.3	4899.3	4968.3	4906.9
25°	9295.9	8758.8	6894.3	4953.0	4381.3	4473.4	4592.3	4734.3	4834.0	4872.4	4899.3
27.5°	9361.1	8616.9	6230.5	4527.1	4296.9	4469.6	4592.3	4711.3	4765.0	4799.5	4830.2
30°	9545.3	8574.7	5655.1	4243.2	4243.2	4392.8	4550.1	4580.8	4653.7	4695.9	4749.6
32.5°	9637.4	8283.1	5064.2	4062.9	4189.5	4431.2	4442.7	4500.3	4504.1	4538.6	4481.1
35°	9879.1	8075.9	4515.6	3932.4	4212.5	4392.8	4450.4	4415.9	4227.9	4135.8	4155.0
37.5°	10055.6	7972.3	4120.4	3917.1	4216.4	4435.0	4465.7	4204.8	4009.2	3855.7	3894.1
40°	10531.3	7715.3	3821.2	3890.2	4250.9	4481.1	4396.7	4112.8	3759.8	3602.5	3575.7
42.5°	10895.8	7531.1	3633.2	3859.6	4277.7	4546.3	4362.1	3928.6	3568.0	3422.2	3460.6
45°	11317.8	7488.9	3533.4	3867.2	4323.8	4580.8	4319.9	3786.7	3403.0	3345.5	3333.9
47.5°	11467.4	7185.8	3426.0	3802.0	4312.3	4569.3	4178.0	3679.2	3341.6	3349.3	3380.0
50°	11218.0	6875.1	3345.5	3667.7	4235.5	4465.7	3955.5	3537.3	3307.1	3403.0	3456.7
52.5°	10899.6	6556.6	3180.5	3487.4	4078.2	4304.6	3851.9	3529.6	3272.6	3241.9	3253.4
55°	10995.5	6295.8	2950.3	3241.9	3825.0	4005.3	3736.8	3456.7	3188.2	3073.1	3111.4
56°	10684.8	6027.2	2800.7	3088.4	3652.4	3813.5	3679.2	3391.5	3119.1	3042.4	3042.4
57.5°	9806.2	5125.6	2605.0	2842.9	3287.9	3479.7	3568.0	3353.1	3042.4	2908.1	2911.9
60°	7231.9	3644.7	2336.5	2505.3	2723.9	2877.4	3287.9	3245.7	2850.5	2758.5	2723.9
62.5°	4458.1	2662.6	2144.6	2209.8	2321.1	2447.7	2869.7	2938.8	2647.2	2547.5	2524.4
65°	2497.6	2037.2	1998.8	2025.7	2079.4	2144.6	2382.5	2536.0	2336.5	2183.0	2175.3
67.5°	1826.2	1822.4	1853.0	1876.1	1899.1	1899.1	1956.6	2018.0	1991.2	1868.4	1856.9
70°	1622.9	1634.4	1657.4	1661.2	1668.9	1642.0	1596.0	1576.8	1607.5	1530.8	1515.4
72.5°	1339.0	1377.3	1404.2	1408.0	1365.8	1331.3	1269.9	1204.7	1181.7	1166.3	1162.5
75°	1028.2	1055.0	1066.6	1062.7	1047.4	997.5	924.6	859.4	817.2	771.1	794.2
77.5°	694.4	732.8	752.0	752.0	728.9	652.2	617.7	567.8	525.6	475.7	483.4
80°	487.2	514.1	544.8	541.0	502.6	464.2	414.3	368.3	333.8	295.4	291.6
82.5°	364.5	379.8	395.2	387.5	360.6	322.3	287.7	245.5	207.2	180.3	180.3
85°	130.4	142.0	172.6	180.3	195.7	195.7	165.0	138.1	111.3	92.1	92.1
87.5°	38.4	38.4	42.2	42.2	38.4	42.2	34.5	38.4	42.2	26.9	26.9
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)