

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: P454314

Luminaire Tested: **GALN-SA5B-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18532 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

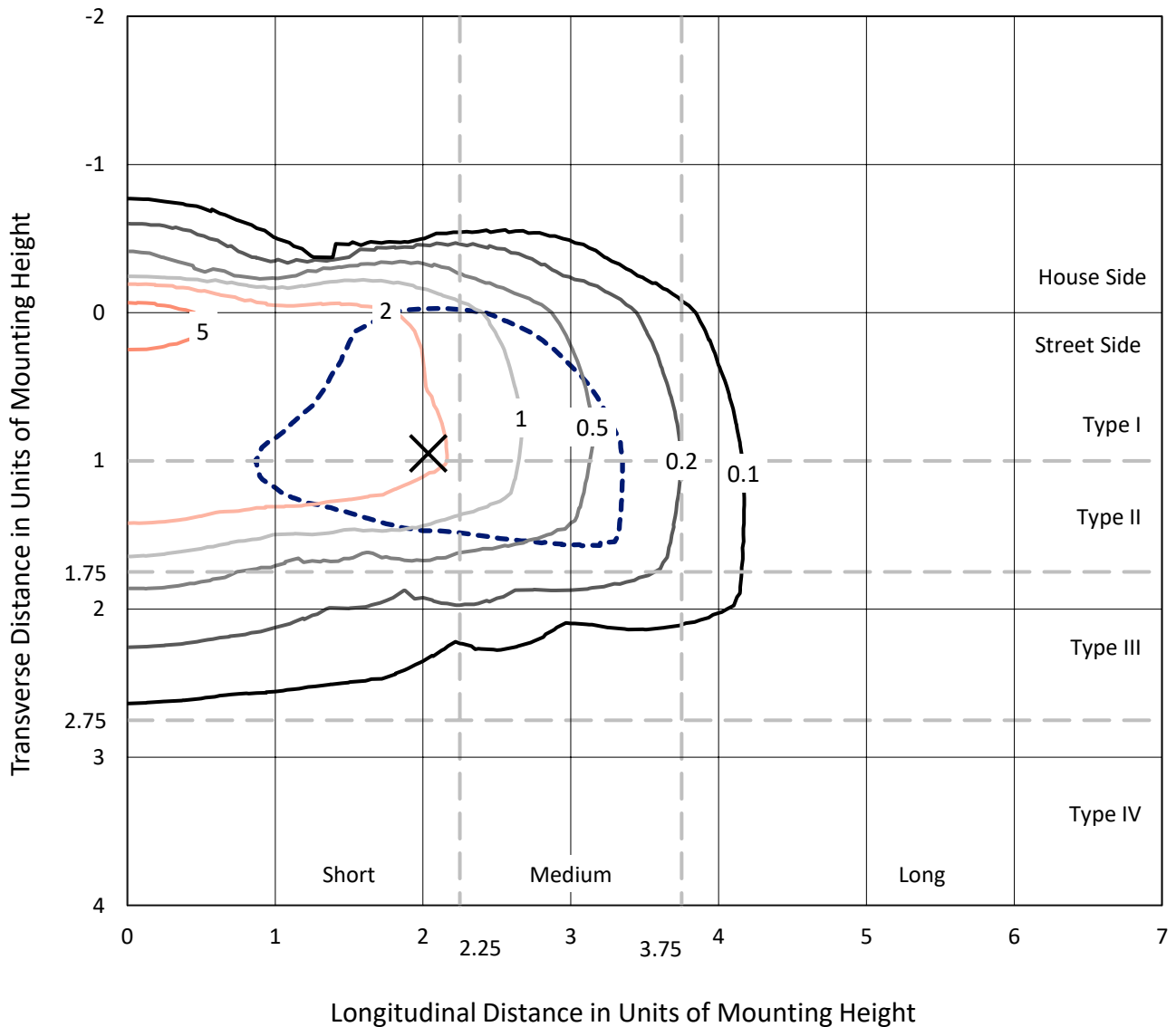
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454314
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Iso-Footcandle Lines of Horizontal Illumination

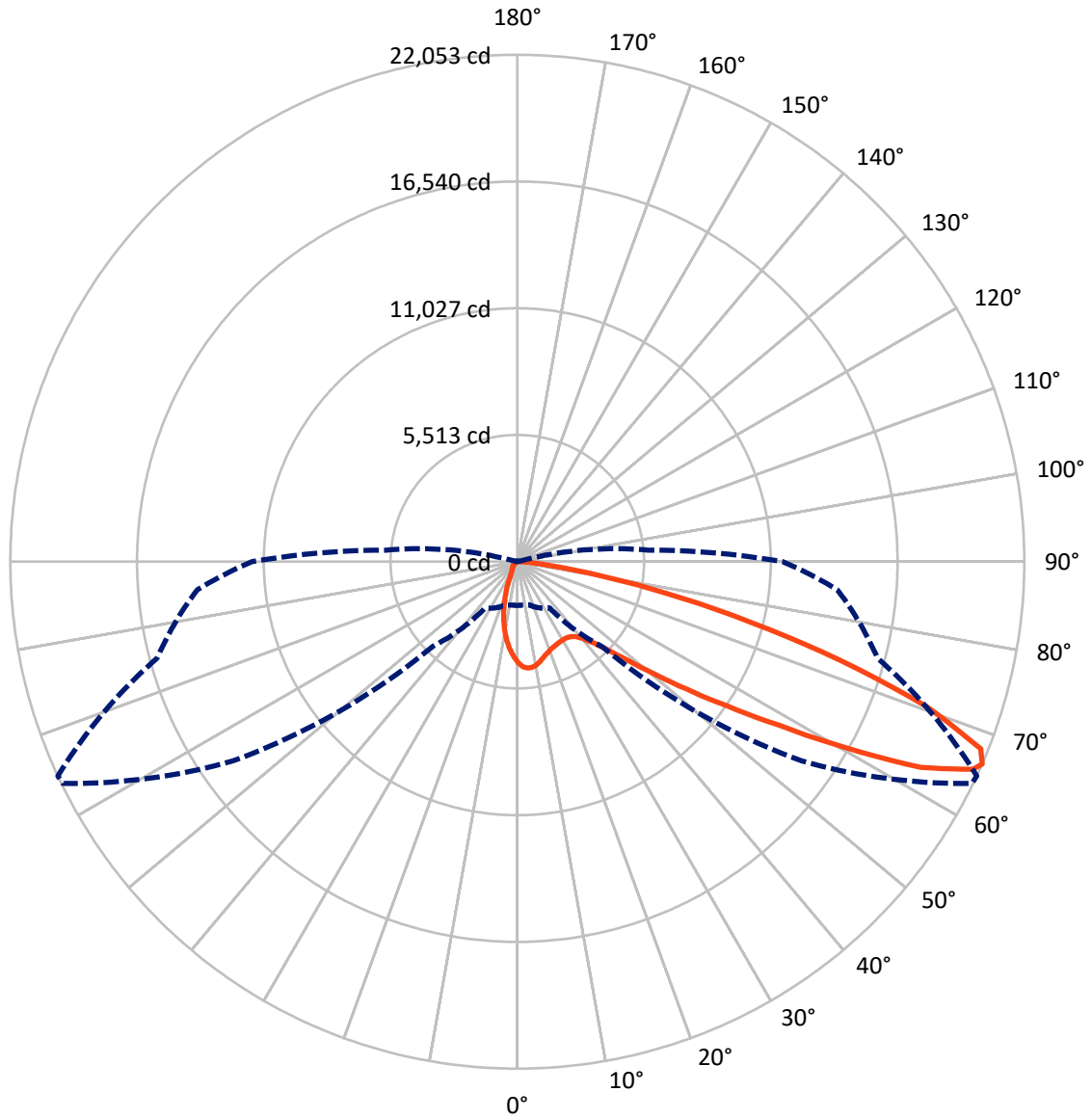
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P454314
CATALOG NUMBER: GALN-SA5B-830-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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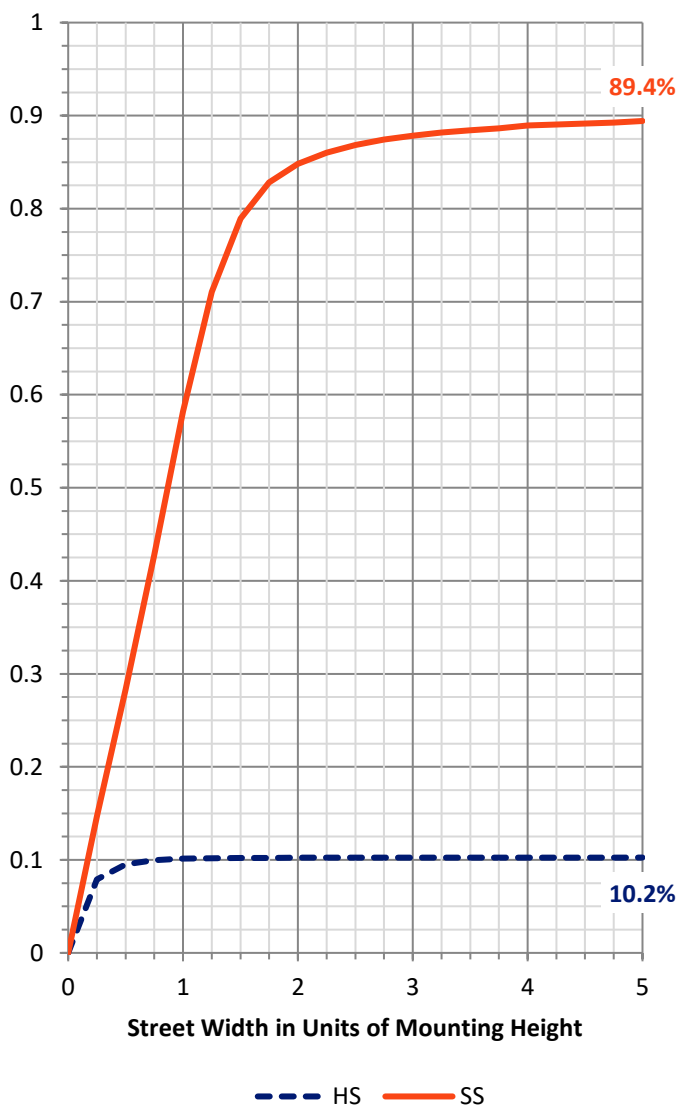
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.5	0.0	1916.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16615.5	0.0	16615.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	18532.0	0.0	18532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	1.9
10°-20°	783.1	4.2
20°-30°	1121.8	6.1
30°-40°	1638.5	8.8
40°-50°	2747.5	14.8
50°-60°	4585.1	24.7
60°-70°	4866.9	26.3
70°-80°	2204.2	11.9
80°-90°	225.5	1.2
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°	18532.0	100.0
0°-180°	18532.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454314

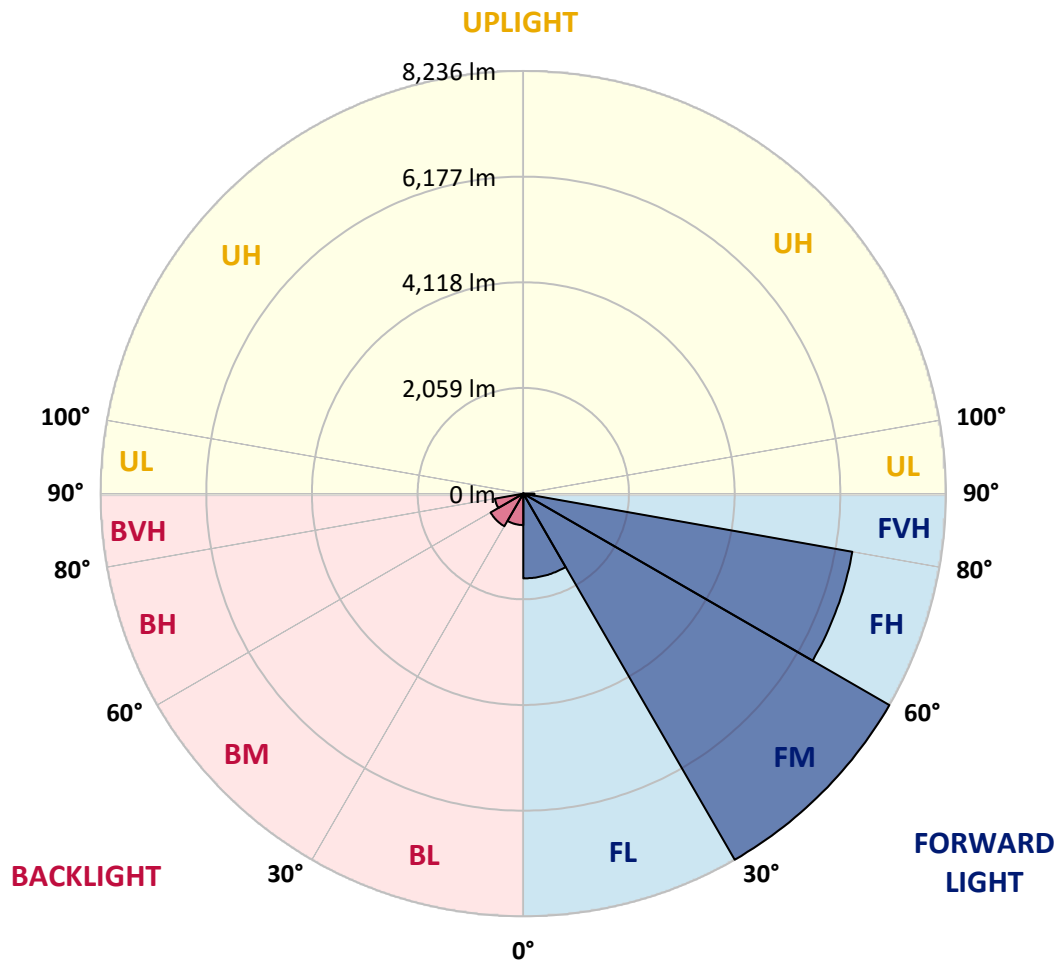
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.3	8.9			
FM (30°-60°)	8236.0	44.4			
FH (60°-80°)	6509.9	35.1			G3/7500
FVH (80°-90°)	218.3	1.2			G2/225
BL (0°-30°)	613.1	3.3	B2/1000		
BM (30°-60°)	735.0	4.0	B1/1000		
BH (60°-80°)	561.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P454314

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4631.2	4636.2	4642.5	4651.2	4657.5	4638.7	4612.4	4582.4	4576.1	4512.3	4434.7
5°	4383.4	4390.9	4445.9	4476.0	4543.6	4604.9	4643.7	4648.7	4646.2	4586.1	4462.2
7.5°	4030.4	4051.7	4105.5	4158.1	4284.5	4400.9	4538.6	4634.9	4641.2	4624.9	4471.0
10°	3743.8	3757.5	3785.1	3888.9	3994.1	4171.8	4364.6	4546.1	4561.1	4626.2	4463.5
12.5°	3519.7	3539.7	3573.5	3653.6	3780.0	3947.8	4166.8	4410.9	4442.2	4602.4	4442.2
15°	3363.2	3373.3	3407.1	3485.9	3608.6	3763.8	3985.3	4269.5	4297.0	4571.1	4438.4
17.5°	3289.4	3300.7	3324.4	3387.0	3488.4	3632.4	3848.9	4155.6	4190.6	4551.1	4452.2
20°	3309.4	3319.4	3320.7	3353.2	3422.1	3543.5	3748.8	4049.2	4094.2	4538.6	4474.7
22.5°	3423.3	3424.6	3409.6	3394.5	3418.3	3505.9	3687.4	3981.6	4027.9	4536.1	4501.0
25°	3593.6	3597.3	3572.3	3519.7	3472.1	3517.2	3673.7	3937.8	3979.1	4529.8	4517.3
27.5°	3828.9	3827.6	3820.1	3732.5	3597.3	3567.3	3684.9	3914.0	3949.0	4512.3	4523.5
30°	4158.1	4148.0	4131.8	4032.9	3826.4	3688.7	3732.5	3899.0	3931.5	4487.2	4507.3
32.5°	4482.2	4519.8	4517.3	4423.4	4165.6	3905.2	3831.4	3919.0	3942.8	4471.0	4483.5
35°	4860.2	4859.0	4955.4	4920.3	4618.7	4181.8	4000.3	3985.3	4004.1	4482.2	4472.2
37.5°	5210.7	5243.3	5393.5	5429.8	5154.4	4572.4	4239.4	4128.0	4134.3	4558.6	4499.8
40°	5647.5	5710.1	5934.2	6055.6	5812.8	5151.9	4592.4	4389.6	4390.9	4746.3	4603.6
42.5°	6210.8	6309.7	6518.7	6721.5	6591.3	5837.8	5121.8	4803.9	4801.4	5076.8	4841.5
45°	6895.5	6964.3	7202.1	7523.8	7441.2	6795.3	5892.9	5446.0	5413.5	5618.8	5263.3
47.5°	7486.3	7580.1	7821.7	8188.4	8563.9	7964.4	6814.1	6328.5	6307.2	6481.2	5986.7
50°	7744.1	7826.7	8080.8	8595.2	9505.2	9498.9	8185.9	7616.4	7580.1	7674.0	7105.7
52.5°	7461.2	7538.8	7795.4	8436.3	9948.3	11368.9	10173.6	9232.3	9188.5	9068.4	8442.5
55°	6492.4	6556.3	6935.5	7671.5	9778.1	12615.6	12912.2	11228.8	11058.5	10591.6	9955.8
57.5°	5169.4	5136.9	5372.2	6227.1	8779.2	13033.7	15723.5	13715.8	13411.7	11908.4	11236.3
60°	3582.3	3682.4	3777.5	4340.8	6601.3	12308.9	17472.1	16842.5	16442.0	13203.9	12462.9
62.5°	2633.5	2699.9	2762.4	3022.8	4150.5	9828.1	17781.3	20054.3	19698.8	14579.5	13633.2
65°	2082.8	2087.8	2112.8	2369.4	2734.9	6391.0	16295.5	21865.5	21774.1	15903.7	14107.6
66°	1897.5	1898.8	1937.6	2213.0	2454.5	5204.5	15105.2	22003.1	22053.2	16221.7	13968.7
67.5°	1658.5	1653.5	1709.8	1988.9	2235.5	3752.5	12974.8	21444.9	21741.5	16465.7	13469.2
70°	1285.5	1279.2	1348.1	1668.5	2059.0	2503.3	8624.0	18413.3	18891.5	15966.3	11917.2
72.5°	856.1	861.2	978.8	1316.8	1965.1	2204.2	5188.2	14007.5	14683.4	13185.1	9375.0
75°	499.4	508.2	642.1	978.8	1706.0	2101.6	2936.4	9988.3	10420.2	9104.7	5840.3
77.5°	261.6	265.4	359.2	645.9	1308.0	1951.4	1956.4	6381.0	6583.8	4424.7	2311.8
80°	138.9	135.2	192.8	389.3	900.0	1713.5	1587.1	3378.3	3512.2	1314.3	584.5
82.5°	52.6	57.6	102.6	255.3	532.0	1230.4	1366.8	1493.2	1446.9	289.1	245.3
85°	10.0	12.5	43.8	151.5	267.9	514.4	1007.6	732.2	678.4	108.9	141.4
87.5°	1.3	2.5	12.5	36.3	38.8	174.0	297.9	202.8	175.2	40.1	58.8
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°	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6	4394.6
2.5°	4397.1	4363.3	4250.7	4139.3	4025.4	3922.7	3852.6	3738.7	3710.0	3668.7	3644.9
5°	4388.4	4309.5	4093.0	3856.4	3636.1	3398.3	3216.8	3041.6	2947.7	2900.1	2882.6
7.5°	4363.3	4238.2	3900.2	3529.7	3176.7	2821.3	2512.1	2276.8	2125.3	2021.5	1951.4
10°	4313.3	4140.5	3676.2	3166.7	2633.5	2164.1	1772.4	1474.5	1244.2	1171.6	1174.1
12.5°	4261.9	4031.6	3425.8	2763.7	2102.8	1510.8	1095.2	859.9	749.8	713.5	705.9
15°	4214.4	3927.7	3180.5	2373.2	1565.8	978.8	705.9	623.3	593.3	587.0	585.8
17.5°	4189.3	3831.4	2918.9	1926.3	1092.7	664.6	565.8	543.2	534.5	528.2	525.7
20°	4168.1	3747.5	2668.6	1508.3	747.2	544.5	506.9	485.6	470.6	464.4	460.6
22.5°	4153.0	3661.1	2409.5	1167.8	572.0	483.1	449.4	421.8	400.5	393.0	388.0
25°	4130.5	3566.0	2147.9	853.6	481.9	429.3	390.5	358.0	330.4	316.7	314.2
27.5°	4098.0	3458.4	1861.2	632.1	430.6	381.8	334.2	294.1	266.6	251.6	252.8
30°	4045.4	3345.7	1574.6	501.9	389.3	332.9	281.6	242.8	216.5	205.3	204.0
32.5°	3982.8	3209.3	1311.8	430.6	351.7	289.1	235.3	201.5	181.5	172.7	171.5
35°	3924.0	3071.6	1043.9	386.8	312.9	249.1	197.8	169.0	154.0	146.4	147.7
37.5°	3891.4	2948.9	813.6	351.7	281.6	214.0	170.2	145.2	131.4	125.2	123.9
40°	3912.7	2848.8	647.1	320.4	246.6	184.0	146.4	125.2	111.4	102.6	102.6
42.5°	4012.9	2805.0	521.9	290.4	214.0	159.0	127.7	107.6	92.6	83.9	85.1
45°	4318.3	2851.3	436.8	262.9	184.0	137.7	110.1	88.9	75.1	68.8	67.6
47.5°	4825.2	3025.3	378.0	234.1	157.7	117.7	92.6	73.8	60.1	55.1	53.8
50°	5711.4	3384.5	334.2	205.3	133.9	100.1	76.4	58.8	47.6	42.6	42.6
52.5°	6930.5	4168.1	302.9	172.7	112.7	85.1	62.6	47.6	37.6	33.8	32.5
55°	8204.7	4994.2	286.6	145.2	93.9	70.1	50.1	37.6	28.8	25.0	23.8
57.5°	9430.1	5642.5	267.9	117.7	75.1	53.8	38.8	28.8	20.0	17.5	16.3
60°	10605.4	6167.0	227.8	93.9	58.8	38.8	28.8	20.0	13.8	11.3	11.3
62.5°	11656.8	6472.4	179.0	75.1	45.1	27.5	18.8	15.0	10.0	7.5	7.5
65°	11779.5	6075.6	135.2	57.6	32.5	17.5	11.3	11.3	7.5	5.0	5.0
66°	11532.9	5738.9	118.9	52.6	28.8	15.0	10.0	8.8	6.3	3.8	3.8
67.5°	10982.2	5164.4	102.6	45.1	23.8	11.3	7.5	7.5	5.0	2.5	2.5
70°	9488.9	4218.1	81.4	33.8	17.5	8.8	5.0	5.0	3.8	2.5	2.5
72.5°	7232.2	3149.2	66.3	25.0	12.5	6.3	3.8	3.8	3.8	2.5	2.5
75°	4362.1	1696.0	51.3	18.8	11.3	5.0	2.5	3.8	5.0	3.8	2.5
77.5°	1607.1	577.0	40.1	15.0	8.8	5.0	2.5	2.5	5.0	3.8	3.8
80°	394.3	150.2	28.8	12.5	8.8	5.0	2.5	2.5	5.0	5.0	5.0
82.5°	182.7	63.8	20.0	11.3	8.8	5.0	2.5	2.5	3.8	5.0	5.0
85°	105.1	30.0	16.3	12.5	8.8	5.0	2.5	2.5	3.8	5.0	5.0
87.5°	42.6	15.0	15.0	12.5	10.0	6.3	2.5	2.5	2.5	3.8	3.8
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)