

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: P532081

Luminaire Tested: **GALN-SA7B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18418 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 286
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

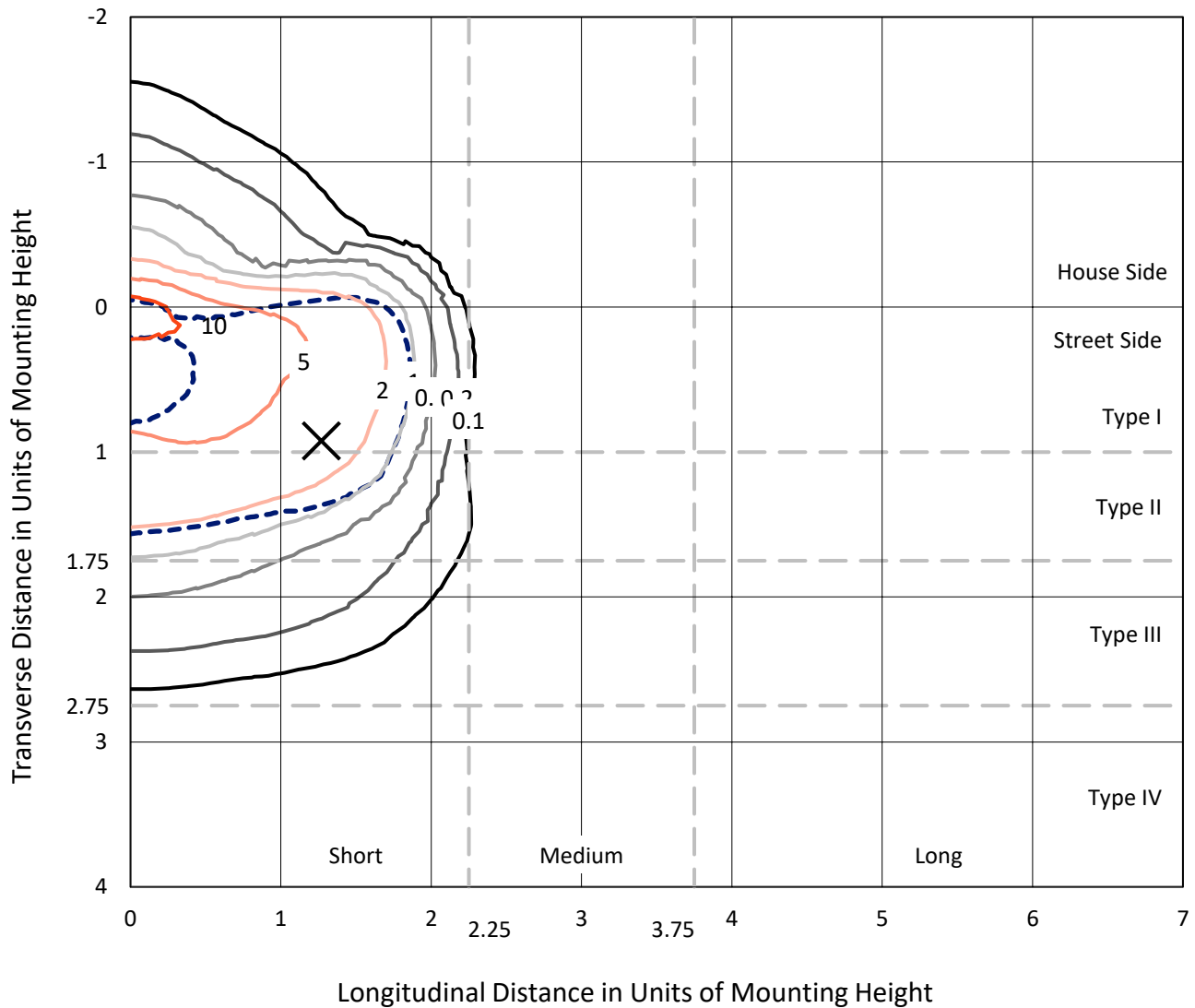


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

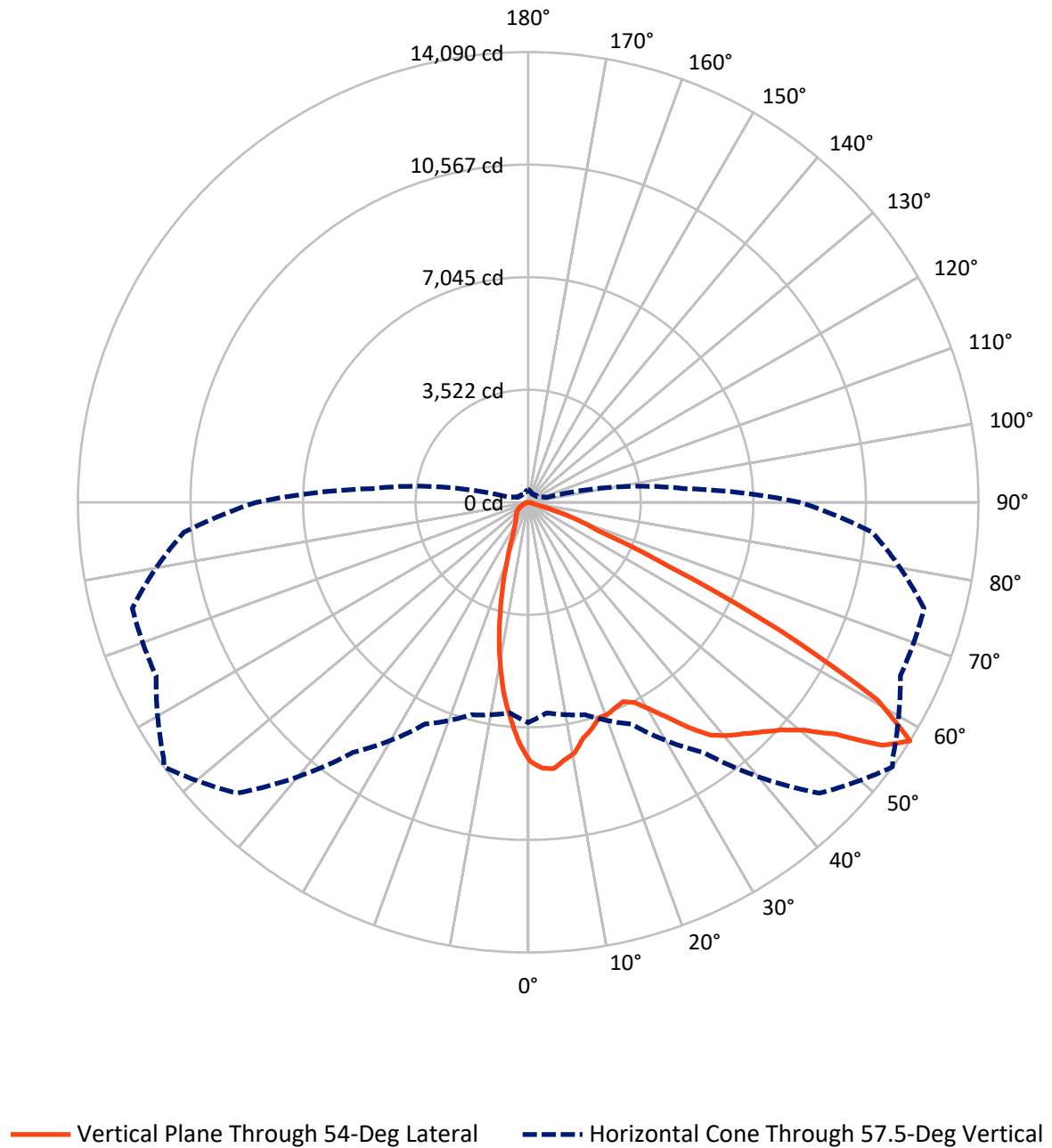


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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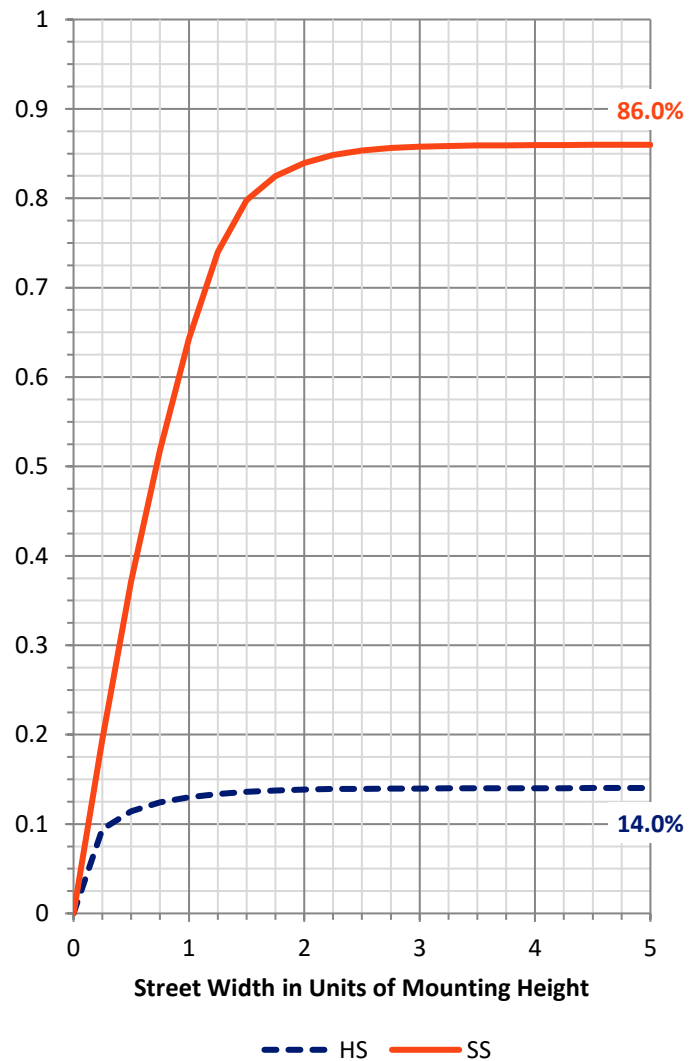
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2602.8	0.0	2602.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15815.2	0.0	15815.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	18418.0	0.0	18418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.9	3.7
10°-20°	1449.5	7.9
20°-30°	1920.9	10.4
30°-40°	2791.6	15.2
40°-50°	4139.6	22.5
50°-60°	5176.4	28.1
60°-70°	2041.8	11.1
70°-80°	203.3	1.1
80°-90°	15.8	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°	18418.0	100.0
0°-180°	18418.0	100.0

Coefficient of Utilization



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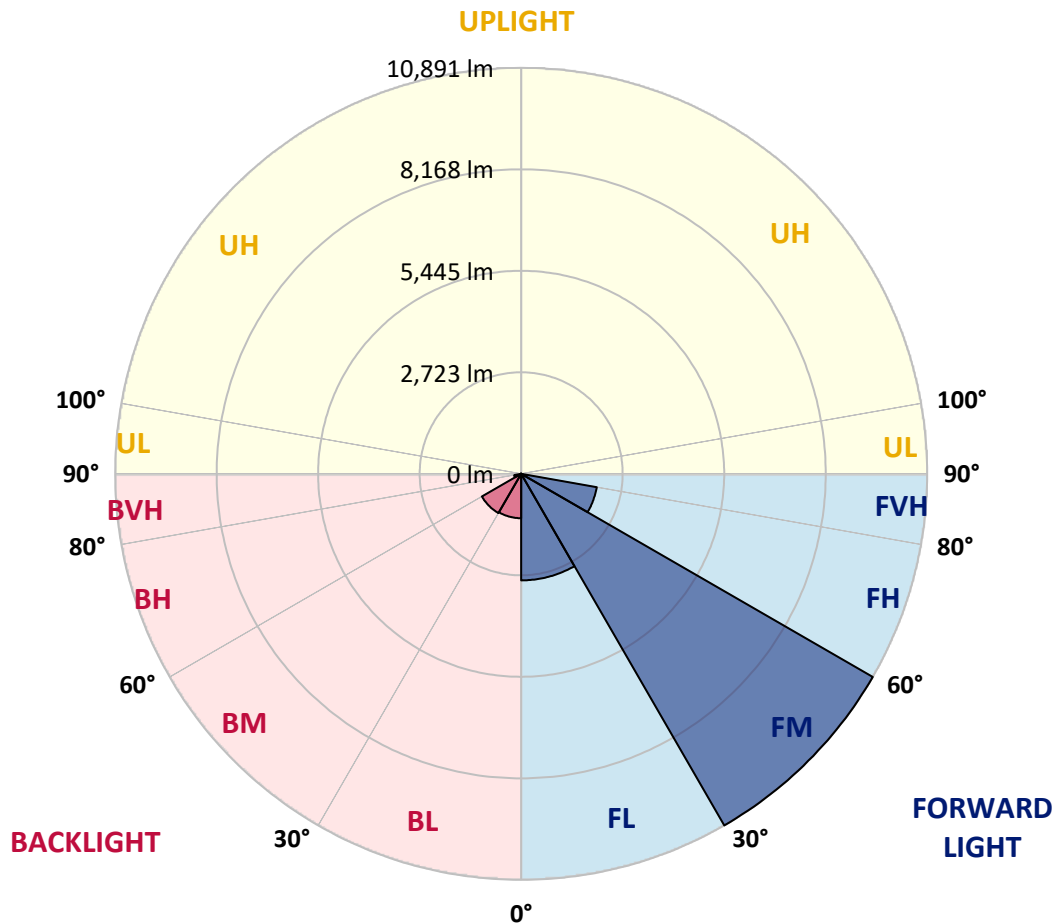
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2859.0	15.5			
FM	(30°-60°)	10890.5	59.1			
FH	(60°-80°)	2058.5	11.2			G2/5000
FVH	(80°-90°)	7.2	0.0			G0/10
BL	(0°-30°)	1190.4	6.5	B3/2500		
BM	(30°-60°)	1217.1	6.6	B2/2500		
BH	(60°-80°)	186.6	1.0	B1/500		G1/500
BVH	(80°-90°)	8.6	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4
2.5°	8586.0	8497.0	8503.8	8473.0	8431.9	8462.7	8329.1	8360.0	8356.5	8175.0	8055.2
5°	8370.2	8466.1	8366.8	8449.0	8370.2	8455.9	8373.7	8312.0	8212.7	8079.1	7856.5
7.5°	8003.8	7911.3	7938.7	8041.5	8058.6	8250.4	8147.6	8226.4	8185.3	7921.6	7616.8
10°	7267.4	7246.9	7383.9	7520.9	7688.7	7894.2	7973.0	7928.4	7897.6	7798.3	7390.7
12.5°	6702.4	6760.6	6757.2	6983.2	7267.4	7383.9	7589.4	7582.5	7753.8	7568.8	7178.4
15°	6164.7	6195.5	6339.3	6479.7	6794.8	7127.0	7380.5	7414.7	7620.2	7490.1	7014.0
17.5°	5835.9	5791.4	5904.4	6072.2	6394.1	6829.1	7109.9	7192.1	7472.9	7445.5	6825.6
20°	5510.5	5510.5	5603.0	5801.6	6096.2	6585.9	7085.9	7062.0	7472.9	7394.2	6623.6
22.5°	5400.9	5455.7	5479.7	5630.4	5979.7	6401.0	6983.2	7027.7	7531.2	7370.2	6534.5
25°	5551.6	5479.7	5486.5	5606.4	5935.2	6311.9	6907.8	7007.2	7637.3	7490.1	6462.6
27.5°	5575.6	5647.5	5668.1	5750.3	5969.4	6339.3	7096.2	7298.3	7901.0	7770.9	6483.2
30°	5784.5	5856.4	5853.0	5993.4	6144.1	6561.9	7517.5	7558.6	8445.6	8123.7	6609.9
32.5°	6037.9	6113.3	6137.3	6301.7	6421.5	6969.5	8031.2	8137.4	8969.6	8678.5	6942.1
35°	6353.0	6325.6	6435.2	6599.6	6856.5	7565.4	8657.9	8836.0	9534.7	9397.7	7284.6
37.5°	6746.9	6712.6	6818.8	7085.9	7435.3	8270.9	9236.7	9353.2	9945.7	10065.5	7918.2
40°	7024.3	7038.0	7359.9	7719.5	8089.4	8942.2	9603.2	9716.2	10233.3	10688.8	8397.6
42.5°	7486.6	7572.3	7959.3	8397.6	8784.6	9445.6	9901.1	10010.7	10366.9	11188.9	9044.9
45°	8157.9	8120.2	8548.3	9038.1	9466.2	9969.6	10253.9	10216.2	10445.7	11685.5	9452.5
47.5°	9021.0	9027.8	9312.1	9729.9	10175.1	10425.1	10647.7	10514.2	10610.1	12209.5	9997.0
50°	9610.0	9661.4	9890.9	10319.0	10541.6	10925.1	11209.4	11127.2	11096.4	12524.5	10339.5
52.5°	9760.7	9914.8	10038.1	10572.4	11093.0	11699.2	12062.2	12236.8	11688.9	12630.7	10774.5
55°	8623.7	8760.7	9195.6	9928.5	11301.9	12925.2	13425.3	13428.7	12462.9	13103.3	11079.3
57.5°	6894.1	6616.7	6883.9	7661.3	9555.2	12873.9	14089.7	13928.7	12849.9	12825.9	10815.6
60°	4767.3	4698.8	4716.0	5024.2	6613.3	10240.2	12555.4	12764.3	11832.7	11116.9	8562.0
62.5°	3777.6	3719.3	3644.0	3609.8	4106.3	6380.4	8856.6	9151.1	8274.3	7209.2	5075.6
65°	2959.0	2924.8	2935.1	3072.1	3068.6	3620.0	4842.7	4722.8	3781.0	2794.6	1596.0
67.5°	1996.7	2048.0	2089.1	2503.5	2715.9	2520.7	2339.1	2270.6	1229.5	517.1	352.8
70°	1123.3	1130.2	1174.7	1565.1	2061.7	1955.6	1613.1	1613.1	613.0	188.4	202.1
72.5°	613.0	592.5	551.4	674.7	917.8	931.5	719.2	626.7	181.5	123.3	113.0
75°	298.0	294.5	253.4	208.9	198.6	164.4	126.7	116.4	82.2	78.8	68.5
77.5°	61.6	58.2	30.8	30.8	34.2	37.7	47.9	47.9	58.2	58.2	47.9
80°	0.0	0.0	3.4	13.7	24.0	34.2	41.1	41.1	47.9	47.9	37.7
82.5°	0.0	0.0	3.4	10.3	20.5	30.8	37.7	41.1	47.9	51.4	41.1
85°	0.0	0.0	0.0	6.8	17.1	24.0	20.5	20.5	17.1	13.7	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4	8113.4
2.5°	7993.5	7986.7	7829.1	7740.1	7579.1	7438.7	7325.7	7243.5	7243.5	7192.1	7144.2
5°	7767.5	7709.2	7373.6	7157.9	6853.0	6627.0	6472.9	6353.0	6164.7	6216.0	6014.0
7.5°	7486.6	7339.4	6894.1	6565.4	6144.1	5822.2	5493.4	5202.3	4921.5	4794.7	4863.2
10°	7185.3	6928.4	6329.1	5808.5	5284.5	4695.4	4311.8	3846.1	3558.4	3541.3	3465.9
12.5°	6866.7	6575.6	5846.2	5126.9	4438.6	3729.6	3144.0	2709.0	2513.8	2298.0	2339.1
15°	6627.0	6195.5	5308.5	4442.0	3527.6	2811.8	2222.7	1887.1	1702.1	1650.8	1633.6
17.5°	6366.7	5904.4	4760.5	3712.5	2767.2	2024.1	1599.4	1438.4	1366.5	1366.5	1356.2
20°	6096.2	5575.6	4215.9	3034.4	2075.4	1510.3	1280.9	1229.5	1226.1	1222.7	1222.7
22.5°	5918.1	5198.9	3722.8	2411.1	1565.1	1209.0	1113.1	1092.5	1106.2	1147.3	1147.3
25°	5729.7	4835.8	3178.2	1859.7	1212.4	1037.7	982.9	996.6	1030.9	1068.5	1054.8
27.5°	5537.9	4599.5	2664.5	1459.0	993.2	907.6	887.0	917.8	955.5	989.8	979.5
30°	5493.4	4346.1	2178.2	1106.2	852.8	791.1	804.8	832.2	869.9	883.6	897.3
32.5°	5561.9	4147.4	1784.3	907.6	743.2	726.1	726.1	739.8	763.7	794.6	784.3
35°	5757.1	4034.4	1411.0	787.7	681.5	664.4	661.0	674.7	688.4	698.7	688.4
37.5°	6055.1	3945.4	1154.2	698.7	640.4	613.0	606.2	602.8	616.5	619.9	626.7
40°	6435.2	3993.3	979.5	643.9	599.3	568.5	548.0	548.0	548.0	558.2	561.7
42.5°	6846.2	4058.4	845.9	613.0	561.7	524.0	503.4	496.6	503.4	517.1	513.7
45°	7277.7	4185.1	760.3	565.1	527.4	479.5	452.1	445.2	462.3	489.7	486.3
47.5°	7681.9	4366.6	695.2	534.3	493.2	448.7	414.4	407.6	438.4	476.0	479.5
50°	8086.0	4681.7	671.3	510.3	469.2	417.8	387.0	380.2	414.4	462.3	472.6
52.5°	8551.8	5020.8	654.1	479.5	441.8	393.9	359.6	352.8	390.4	452.1	455.5
55°	8856.6	5308.5	640.4	424.7	390.4	356.2	328.8	325.4	366.5	421.3	435.0
57.5°	8500.4	4907.8	592.5	369.9	332.2	315.1	291.1	291.1	325.4	376.7	387.0
60°	6445.5	3229.6	421.3	298.0	280.8	270.6	260.3	260.3	287.7	325.4	328.8
62.5°	3774.1	1739.8	270.6	239.7	239.7	229.5	212.3	212.3	239.7	260.3	263.7
65°	1119.9	558.2	219.2	205.5	202.1	184.9	167.8	164.4	184.9	195.2	191.8
67.5°	321.9	256.9	181.5	171.2	167.8	140.4	130.1	126.7	130.1	123.3	119.9
70°	191.8	174.7	140.4	143.8	126.7	102.7	92.5	89.0	82.2	71.9	65.1
72.5°	106.2	106.2	102.7	109.6	89.0	68.5	58.2	47.9	37.7	30.8	27.4
75°	65.1	68.5	71.9	75.3	58.2	44.5	37.7	24.0	13.7	6.8	6.8
77.5°	44.5	47.9	51.4	54.8	47.9	41.1	30.8	17.1	3.4	0.0	0.0
80°	34.2	37.7	44.5	47.9	51.4	54.8	41.1	17.1	3.4	0.0	0.0
82.5°	37.7	41.1	51.4	47.9	47.9	47.9	37.7	17.1	3.4	0.0	0.0
85°	6.8	10.3	17.1	17.1	24.0	30.8	24.0	6.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)