

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: P944336

Luminaire Tested: **GALN-SB9B-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37310 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 329.5
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

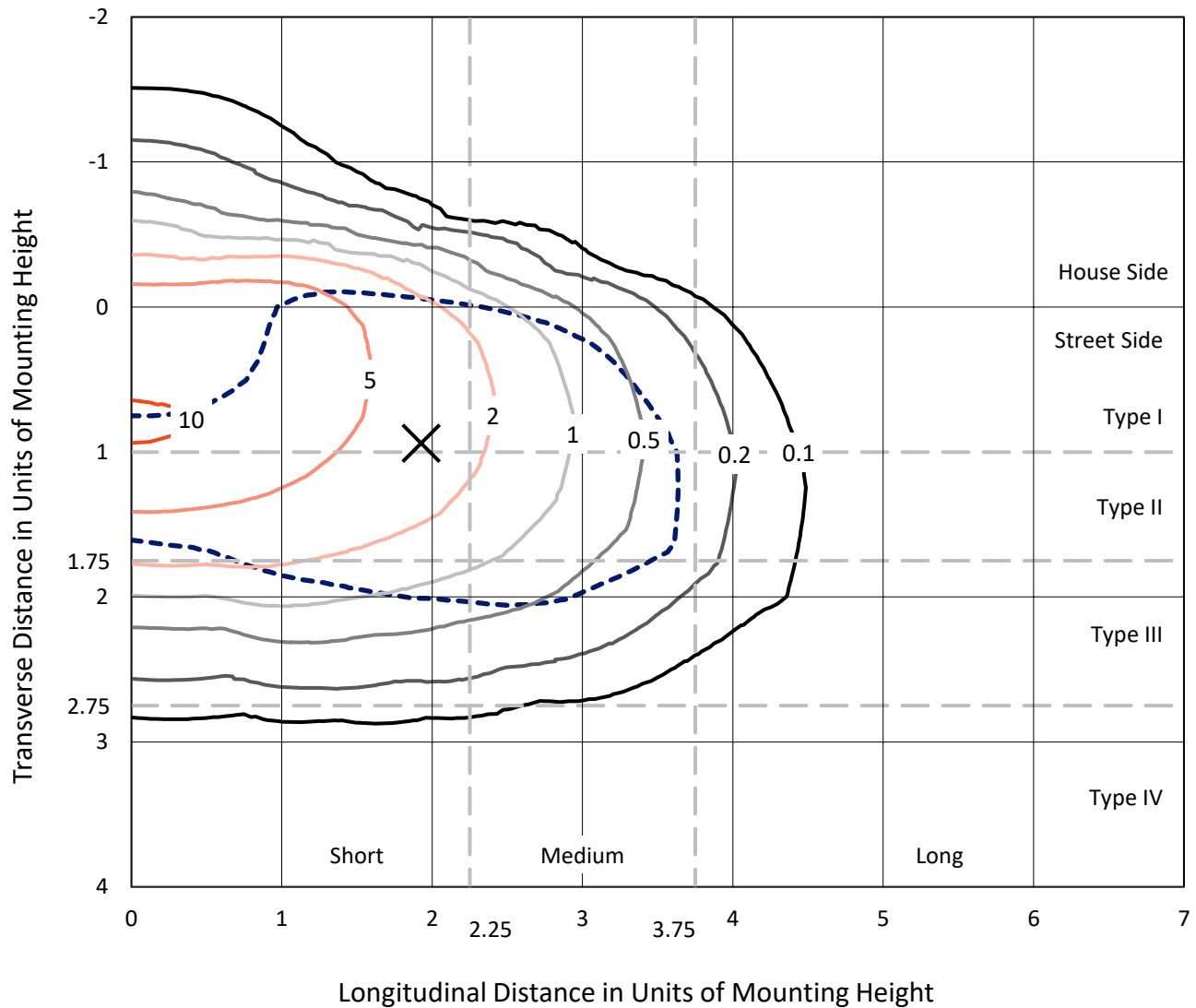


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

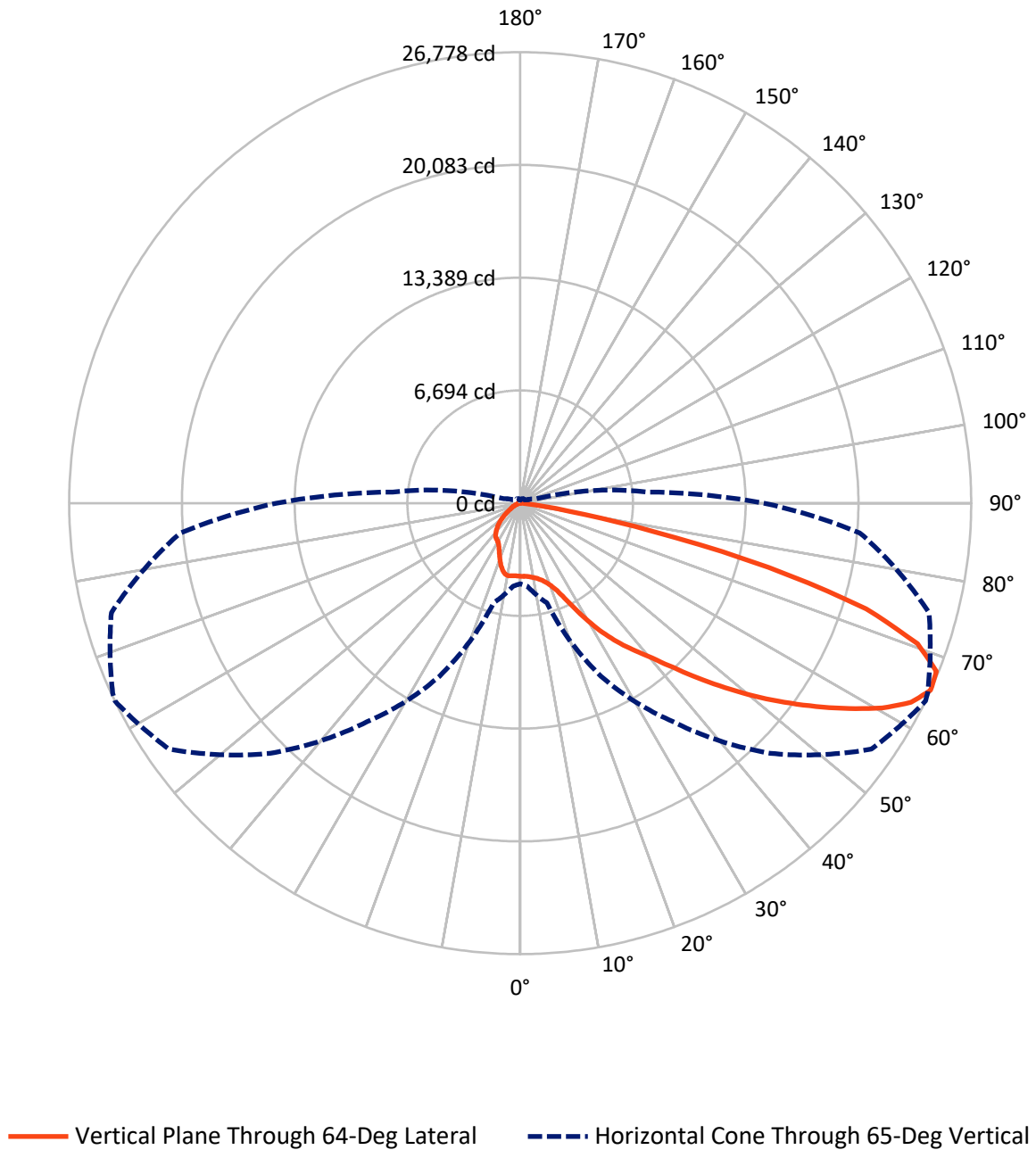


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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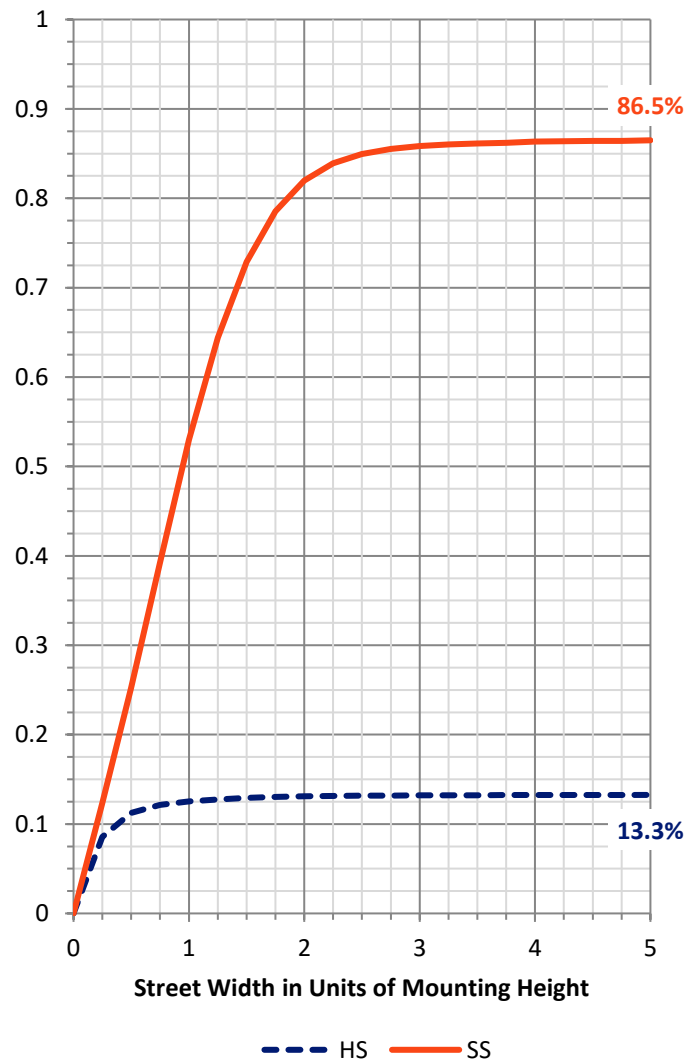
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4989.5	0.0	4989.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32320.5	0.0	32320.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	37310.0	0.0	37310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.4	1.1
10°-20°	1085.9	2.9
20°-30°	2057.7	5.5
30°-40°	4163.8	11.2
40°-50°	7093.1	19.0
50°-60°	9646.1	25.9
60°-70°	9058.1	24.3
70°-80°	3629.1	9.7
80°-90°	175.8	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°	37310.0	100.0
0°-180°	37310.0	100.0

Coefficient of Utilization



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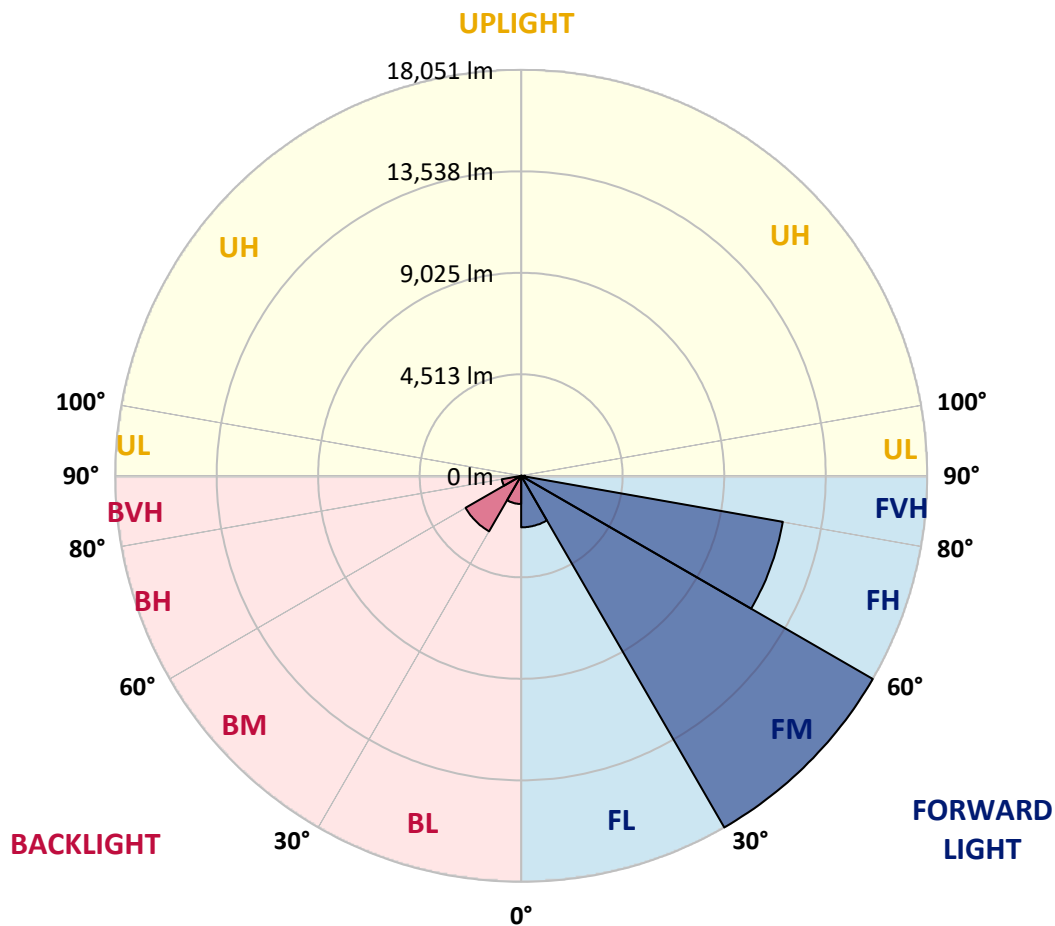
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2291.3	6.1			
FM	(30°-60°)	18050.5	48.4			
FH	(60°-80°)	11811.5	31.7			G4/12000
FVH	(80°-90°)	167.2	0.4			G2/225
BL	(0°-30°)	1252.7	3.4	B3/2500		
BM	(30°-60°)	2852.5	7.6	B3/5000		
BH	(60°-80°)	875.7	2.3	B2/1000		G2/1000
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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5
2.5°	4324.5	4354.5	4347.0	4339.5	4337.0	4342.0	4344.5	4342.0	4342.0	4342.0	4344.5
5°	4242.0	4267.0	4267.0	4284.5	4309.5	4339.5	4362.1	4367.1	4372.1	4379.6	4377.1
7.5°	4084.4	4104.4	4119.4	4177.0	4239.5	4319.5	4387.1	4422.1	4427.1	4454.6	4464.6
10°	3976.9	4001.9	4026.9	4086.9	4177.0	4297.0	4412.1	4497.1	4509.6	4574.7	4604.7
12.5°	3971.9	3996.9	4029.4	4094.4	4199.5	4327.0	4467.1	4589.7	4612.2	4707.2	4769.7
15°	4024.4	4054.4	4084.4	4164.5	4277.0	4432.1	4582.2	4734.7	4757.2	4892.3	4959.8
17.5°	4131.9	4172.0	4194.5	4274.5	4394.6	4567.1	4764.7	4939.8	4959.8	5117.4	5202.4
20°	4344.5	4392.1	4399.6	4464.6	4582.2	4767.2	5002.4	5220.0	5245.0	5425.1	5520.1
22.5°	4784.7	4852.3	4792.3	4824.8	4929.8	5114.9	5370.0	5645.2	5680.2	5885.3	5970.3
25°	5560.1	5655.2	5500.1	5445.1	5490.1	5682.7	6002.8	6350.5	6390.5	6555.6	6598.1
27.5°	7083.3	6960.8	6725.7	6495.6	6360.5	6470.5	6830.7	7260.9	7310.9	7471.0	7421.0
30°	8756.6	8649.1	8331.4	7821.2	7501.0	7483.5	7816.2	8296.4	8353.9	8506.5	8353.9
32.5°	10432.4	10329.9	9984.7	9356.9	8801.6	8526.5	8756.6	9289.4	9319.4	9416.9	9191.8
35°	12080.7	11975.6	11630.5	10987.7	10304.8	9679.6	9634.5	10234.8	10244.8	10347.4	10012.2
37.5°	13739.0	13651.4	13283.7	12653.4	11980.6	11117.7	10700.0	11130.2	11142.7	11242.8	10895.1
40°	14922.0	14959.5	14706.9	14219.2	13641.4	12698.5	11895.6	12083.2	12008.1	12175.7	11968.1
42.5°	15937.5	16012.5	15792.4	15547.3	15212.2	14381.8	13376.3	13343.8	13223.7	13313.8	13098.7
45°	16815.4	16877.9	16680.3	16622.8	16615.3	16032.5	14994.6	14799.5	14631.9	14614.4	14356.8
47.5°	17138.1	17258.1	17343.2	17535.7	17910.9	17665.8	16667.8	16365.2	16177.6	16040.0	15632.4
50°	17260.6	17388.2	17678.3	18238.6	19126.5	19231.5	18333.6	17993.5	17763.4	17513.2	16913.0
52.5°	17095.5	17323.1	17713.3	18656.3	19944.4	20487.1	19931.9	19634.2	19371.6	18963.9	18073.5
55°	16122.6	16350.2	17148.1	18651.3	20352.1	21367.5	21442.6	21310.0	21014.9	20372.1	19011.4
57.5°	14071.6	14409.3	15672.4	18016.0	20344.6	22125.4	22923.3	23018.3	22688.2	21767.7	19749.3
60°	11230.3	11688.0	13228.7	16607.8	19716.8	22535.6	24221.4	24696.6	24346.4	23143.4	20347.1
62.5°	7836.2	8366.4	9824.6	14401.8	18281.1	22240.5	25169.3	26047.2	25782.1	24374.0	20577.2
65°	4779.7	4949.8	6125.4	11332.8	15839.9	21004.9	25462.0	26777.6	26690.0	25126.8	20237.0
67.5°	3184.0	3326.6	3664.2	7771.2	12295.8	18536.2	24761.6	26650.0	26675.0	25004.3	18991.4
70°	1918.4	2041.0	2261.1	4519.6	7968.7	14671.9	22593.1	25024.3	25169.3	23366.0	16630.3
72.5°	790.4	872.9	1073.0	2048.5	4126.9	9311.9	17991.0	21485.1	21822.8	19646.7	12763.5
75°	447.7	490.2	630.3	1028.0	1790.8	4339.5	10897.6	15252.2	15749.9	13541.4	7678.6
77.5°	297.6	317.6	407.7	665.3	1008.0	1480.7	4657.2	7946.2	8896.7	7396.0	3324.1
80°	200.1	217.6	280.1	445.2	655.3	635.3	1483.2	2943.9	3621.7	2541.2	810.4
82.5°	135.1	137.6	200.1	292.6	415.2	307.6	437.7	915.4	1150.5	735.3	307.6
85°	77.5	75.0	147.6	170.1	185.1	127.6	132.6	275.1	360.2	310.1	175.1
87.5°	10.0	15.0	57.5	45.0	25.0	27.5	27.5	47.5	70.0	75.0	37.5
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°	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5	4339.5
2.5°	4344.5	4342.0	4334.5	4327.0	4309.5	4299.5	4304.5	4299.5	4297.0	4299.5	4309.5
5°	4377.1	4369.6	4349.5	4324.5	4289.5	4247.0	4219.5	4179.5	4141.9	4119.4	4124.4
7.5°	4464.6	4457.1	4429.6	4359.5	4247.0	4069.4	3906.8	3764.3	3656.7	3594.2	3596.7
10°	4604.7	4592.2	4549.6	4394.6	4099.4	3711.7	3389.1	3121.5	2946.4	2863.8	2856.3
12.5°	4769.7	4754.7	4679.7	4362.1	3819.3	3214.0	2768.8	2471.2	2308.6	2236.1	2228.5
15°	4964.8	4944.8	4797.3	4207.0	3411.6	2663.8	2256.1	2033.5	1928.4	1863.4	1865.9
17.5°	5207.4	5172.4	4884.8	3974.4	2968.9	2243.6	1940.9	1773.3	1680.8	1618.3	1613.3
20°	5522.6	5465.1	4954.8	3696.7	2561.2	1978.4	1728.3	1588.2	1518.2	1463.2	1453.2
22.5°	5962.8	5880.3	5039.9	3396.6	2273.6	1795.8	1570.7	1468.2	1410.7	1348.1	1338.1
25°	6508.1	6410.5	5144.9	3119.0	2076.0	1638.3	1455.7	1370.6	1303.1	1230.6	1223.1
27.5°	7270.9	7095.8	5270.0	2891.4	1905.9	1503.2	1350.6	1255.6	1178.1	1118.0	1105.5
30°	8121.3	7833.7	5380.0	2753.8	1750.8	1378.1	1213.1	1118.0	1045.5	1003.0	995.5
32.5°	8926.7	8536.5	5452.6	2693.8	1610.8	1235.6	1063.0	960.5	905.4	892.9	900.4
35°	9687.1	9171.8	5445.1	2636.2	1485.7	1093.0	915.4	810.4	767.9	775.4	775.4
37.5°	10562.5	9849.6	5392.5	2546.2	1383.2	963.0	787.9	695.3	657.8	660.3	670.3
40°	11580.4	10632.5	5360.0	2376.1	1270.6	842.9	682.8	607.8	580.3	570.3	567.8
42.5°	12666.0	11390.4	5365.0	2183.5	1130.5	735.3	610.3	547.8	522.7	515.2	512.7
45°	13756.5	12113.2	5372.5	1983.4	983.0	652.8	557.8	505.2	490.2	480.2	480.2
47.5°	14782.0	12728.5	5232.5	1768.3	837.9	590.3	515.2	480.2	467.7	455.2	455.2
50°	15737.4	13138.7	4894.8	1518.2	722.8	540.3	482.7	457.7	445.2	432.7	432.7
52.5°	16480.2	13203.7	4337.0	1260.6	642.8	502.7	462.7	440.2	425.2	412.7	410.2
55°	16810.4	12796.0	3544.2	1020.5	580.3	470.2	442.7	420.2	402.7	390.2	387.7
57.5°	16725.4	11938.1	2763.8	820.4	520.2	437.7	417.7	402.7	382.7	362.7	360.2
60°	16307.7	10790.1	2083.5	682.8	465.2	402.7	390.2	377.7	350.2	320.2	315.1
62.5°	15584.8	9346.9	1485.7	565.3	405.2	362.7	357.7	347.7	307.6	252.6	247.6
65°	14479.3	7593.6	1000.5	470.2	347.7	317.6	320.2	302.6	250.1	187.6	182.6
67.5°	12863.5	5552.6	640.3	385.2	290.1	265.1	267.6	257.6	212.6	160.1	152.6
70°	10805.1	3676.7	417.7	292.6	232.6	205.1	220.1	222.6	180.1	130.1	125.1
72.5°	7921.2	2171.0	292.6	217.6	170.1	142.6	180.1	185.1	145.1	97.5	92.5
75°	4514.6	1030.5	220.1	157.6	105.0	100.0	140.1	140.1	100.0	65.0	60.0
77.5°	1895.9	430.2	155.1	102.5	60.0	57.5	95.0	87.5	50.0	30.0	30.0
80°	547.8	192.6	82.5	50.0	25.0	22.5	37.5	27.5	12.5	5.0	5.0
82.5°	215.1	85.0	32.5	20.0	10.0	10.0	5.0	0.0	0.0	0.0	0.0
85°	127.6	35.0	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.5	7.5	5.0	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)