

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: P452807

Luminaire Tested: **GALN-SA3D-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23052 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

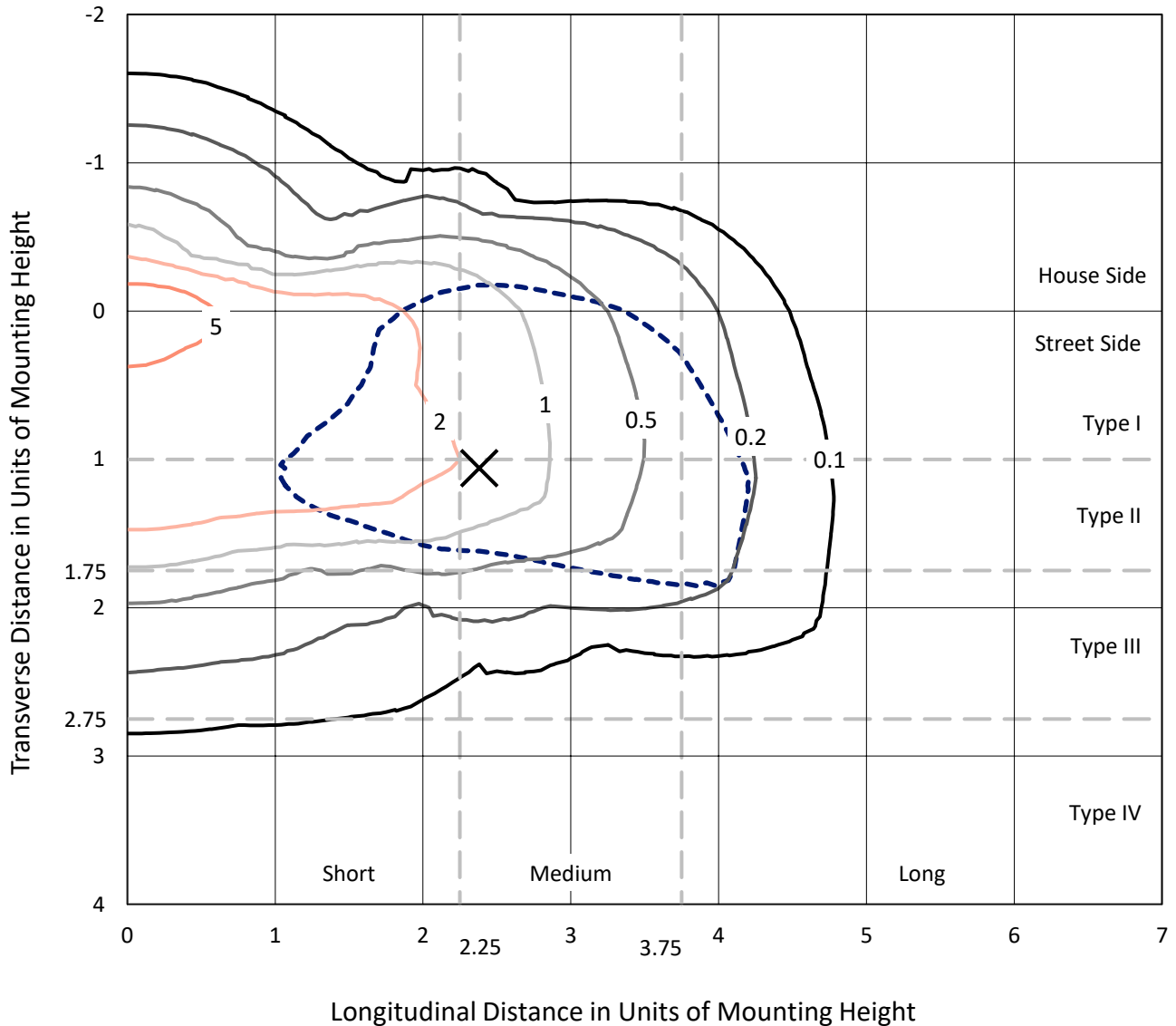
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

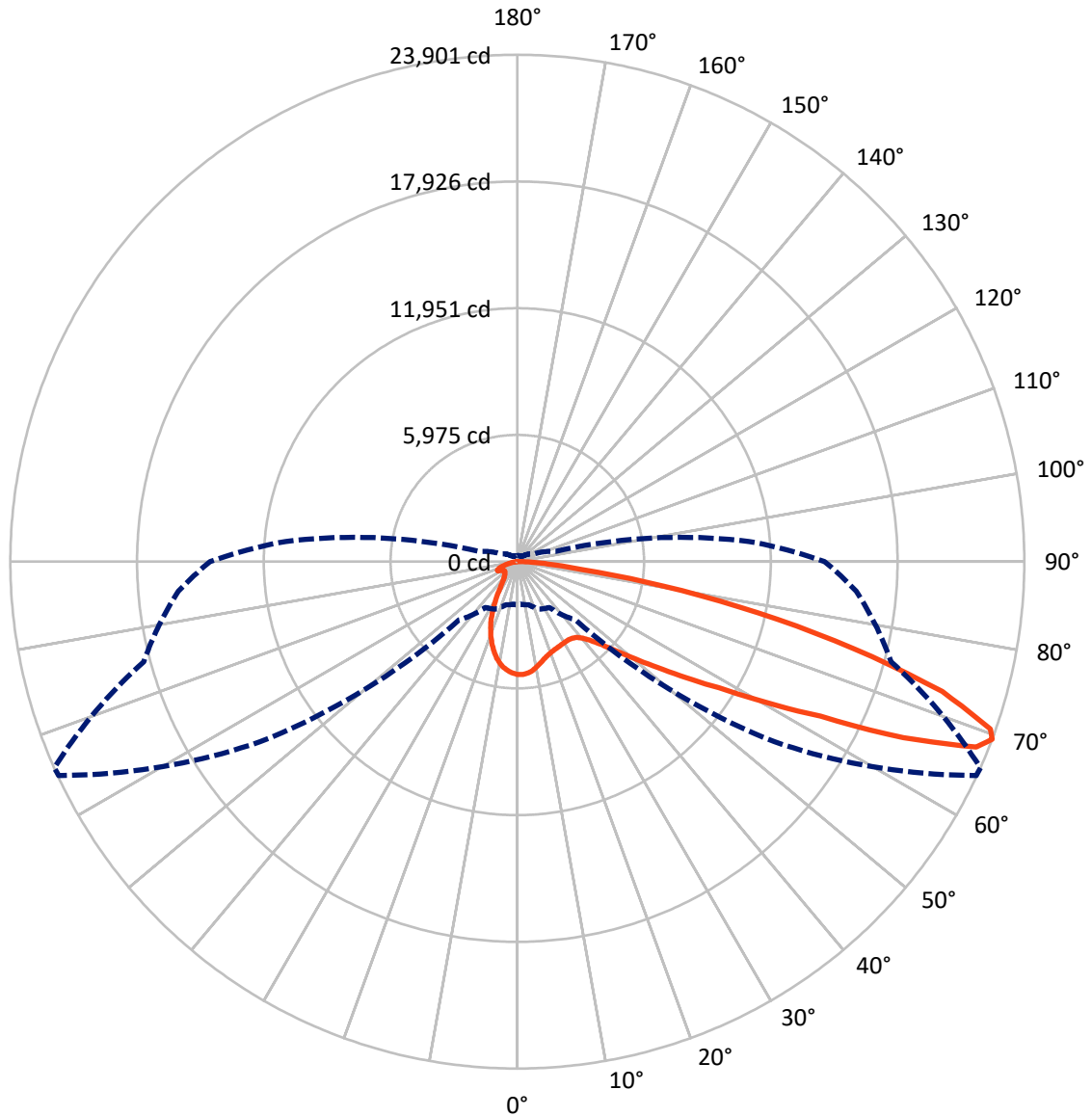
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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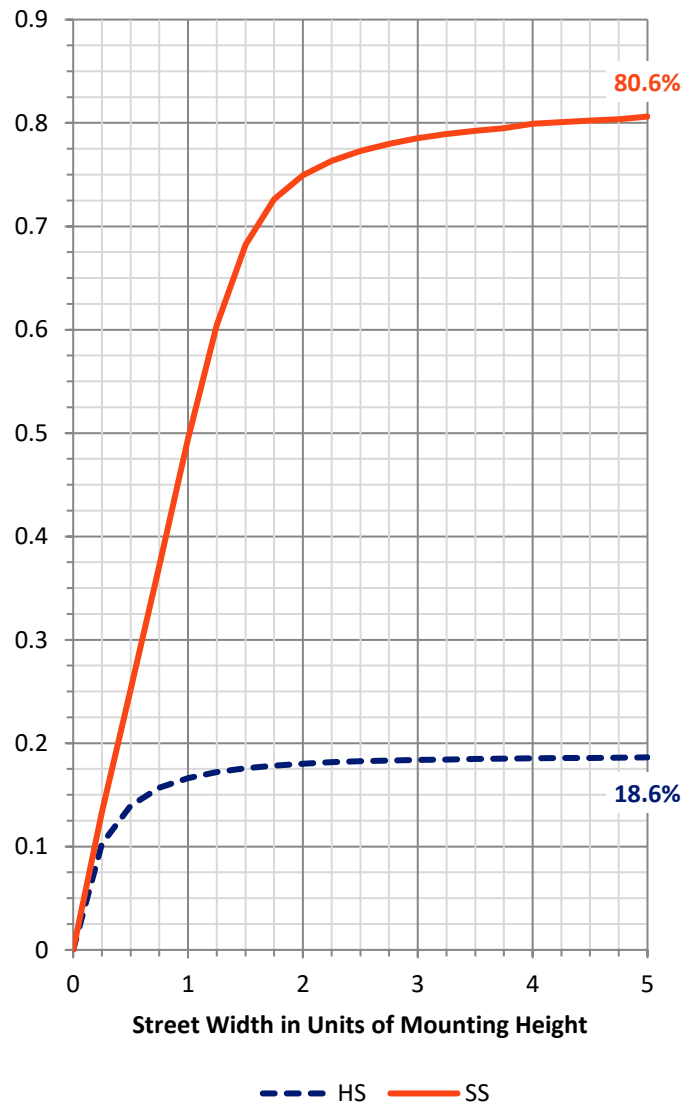
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4335.2	0.0	4335.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18716.8	0.0	18716.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	23052.0	0.0	23052.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.3	2.0
10°-20°	1096.5	4.8
20°-30°	1492.7	6.5
30°-40°	2005.9	8.7
40°-50°	2995.1	13.0
50°-60°	4764.2	20.7
60°-70°	5859.7	25.4
70°-80°	3812.6	16.5
80°-90°	563.0	2.4
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°	23052.0	100.0
0°-180°	23052.0	100.0



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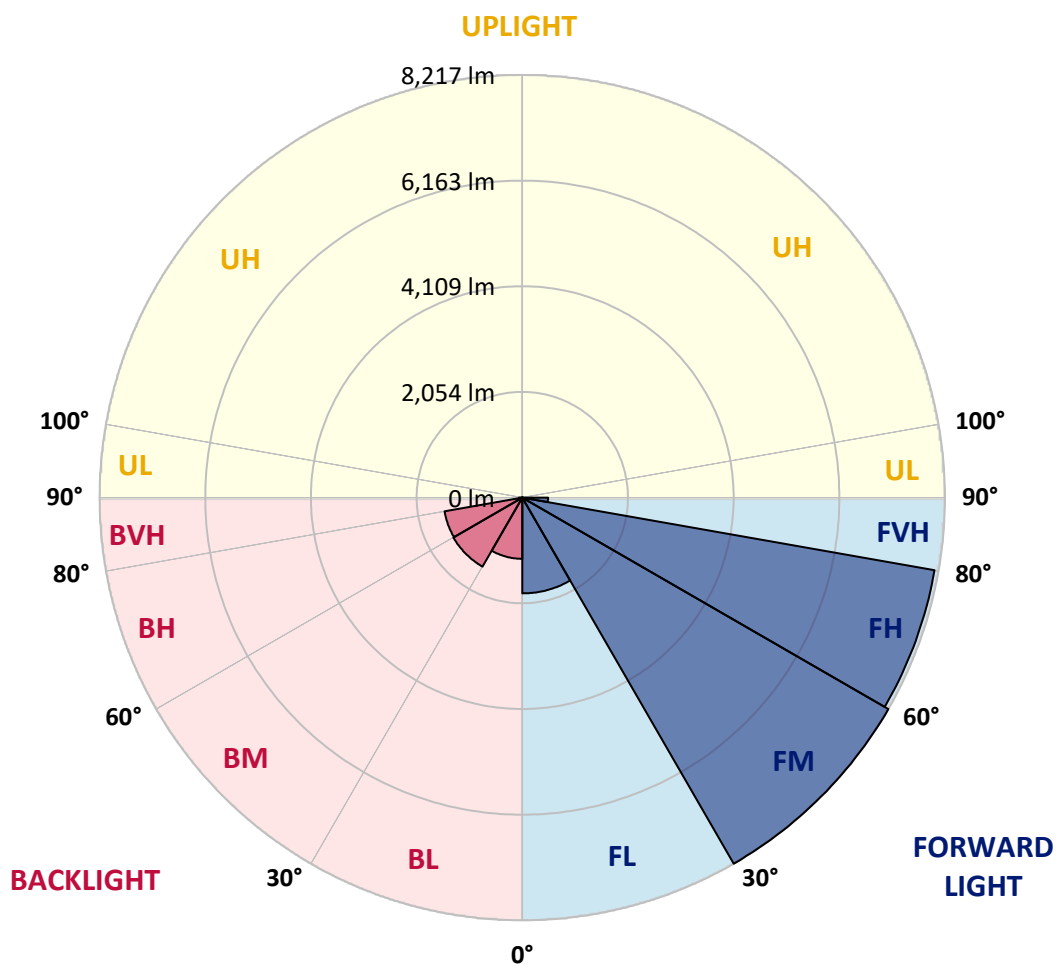
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1861.4	8.1			
FM	(30°-60°)	8217.3	35.6			
FH	(60°-80°)	8137.5	35.3			G4/12000
FVH	(80°-90°)	500.5	2.2			G4/750
BL	(0°-30°)	1190.0	5.2	B3/2500		
BM	(30°-60°)	1547.9	6.7	B2/2500		
BH	(60°-80°)	1534.9	6.7	B3/2500		G3/2500
BVH	(80°-90°)	62.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3
2.5°	5137.0	5157.4	5180.4	5205.9	5254.4	5281.2	5300.4	5322.1	5324.6	5336.1	5327.2
5°	4757.8	4782.1	4816.5	4865.1	4937.8	5051.4	5168.9	5264.6	5276.1	5329.7	5345.0
7.5°	4441.2	4455.3	4483.4	4561.2	4664.6	4791.0	4962.1	5156.1	5184.2	5311.9	5356.5
10°	4183.4	4197.4	4230.6	4311.0	4413.1	4571.4	4759.1	5014.4	5037.4	5257.0	5359.1
12.5°	3990.6	4003.4	4039.1	4118.3	4235.7	4383.8	4590.6	4861.2	4894.4	5184.2	5334.8
15°	3843.8	3868.0	3897.4	3962.5	4086.3	4229.3	4429.7	4720.8	4747.6	5107.6	5318.2
17.5°	3781.2	3792.7	3813.2	3873.2	3963.8	4104.2	4305.9	4611.0	4642.9	5054.0	5314.4
20°	3783.8	3795.3	3799.1	3832.3	3897.4	4018.7	4217.8	4524.2	4562.5	5006.8	5320.8
22.5°	3870.6	3871.9	3857.8	3846.3	3871.9	3972.7	4155.3	4459.1	4503.8	4986.3	5325.9
25°	4004.6	4027.6	4007.2	3953.6	3906.3	3954.9	4131.0	4423.4	4465.5	4957.0	5319.5
27.5°	4221.7	4225.5	4208.9	4136.1	4013.6	3977.8	4120.8	4396.5	4432.3	4935.3	5287.6
30°	4512.7	4501.2	4485.9	4405.5	4212.7	4065.9	4142.5	4372.3	4409.3	4903.4	5249.3
32.5°	4807.6	4843.4	4829.3	4734.8	4484.6	4237.0	4212.7	4369.7	4400.4	4879.1	5207.2
35°	5120.4	5137.0	5203.3	5154.8	4898.2	4514.0	4344.2	4409.3	4433.6	4880.4	5177.8
37.5°	5365.5	5410.2	5565.9	5608.0	5366.8	4880.4	4557.4	4521.7	4531.9	4942.9	5189.3
40°	5661.6	5738.2	5938.7	6111.0	5952.7	5356.5	4919.9	4729.7	4742.5	5093.6	5264.6
42.5°	6037.0	6090.6	6359.9	6593.5	6568.0	5985.9	5359.1	5070.6	5077.0	5393.6	5475.3
45°	6476.1	6552.7	6855.2	7206.3	7266.3	6698.2	5993.6	5586.3	5582.5	5859.5	5868.4
47.5°	7037.8	7085.0	7385.0	7768.0	8010.6	7593.1	6763.3	6326.7	6285.9	6538.7	6465.9
50°	7554.8	7628.9	7856.1	8274.8	8878.6	8641.2	7775.7	7286.7	7191.0	7427.2	7304.6
52.5°	7771.8	7849.7	8041.2	8560.8	9622.9	9996.9	9061.2	8431.8	8272.3	8453.5	8408.8
55°	7395.2	7496.1	7674.8	8306.7	9949.7	11560.7	10794.8	9755.6	9639.5	9561.6	9574.4
57.5°	6382.9	6478.7	6719.9	7416.9	9559.0	12695.6	13270.1	11457.3	11208.4	10849.7	10910.9
60°	4858.7	4918.7	5043.8	5816.1	8401.2	12990.5	16081.1	13608.4	13450.1	12132.6	12176.0
62.5°	3450.6	3518.3	3605.1	3990.6	6150.6	12159.4	18281.9	16612.2	16046.6	13461.6	13419.4
65°	2802.1	2756.1	2860.8	3040.8	3608.9	9423.7	18777.2	20781.5	20002.8	15211.8	14627.1
67.5°	2304.2	2255.7	2359.1	2679.5	2744.7	5470.2	16992.6	23487.8	23332.1	17115.1	15853.9
69°	2040.0	2014.4	2105.1	2470.2	2634.9	3884.6	14803.2	23864.4	23901.4	18237.3	16042.8
70°	1838.3	1848.5	1936.6	2364.2	2585.1	3202.9	12652.2	23344.9	23658.9	18797.7	15838.6
72.5°	1353.2	1374.9	1497.4	1958.3	2537.8	2717.8	7529.3	20390.8	20946.2	18830.9	14489.2
75°	945.9	935.7	1044.2	1474.5	2397.4	2693.6	4422.1	15769.6	16399.0	16276.4	12174.8
77.5°	619.1	635.7	722.5	1041.7	2017.0	2673.2	2882.5	11188.0	11596.5	10885.4	7201.2
80°	436.6	435.3	483.8	711.1	1496.2	2568.5	2360.4	7051.8	6948.4	4277.8	2135.7
82.5°	250.2	268.1	324.3	500.4	1000.8	2260.8	2171.5	3372.7	3079.1	1219.1	721.3
85°	139.1	145.5	192.8	302.5	584.7	1703.0	1895.7	1534.5	1447.6	509.4	310.2
87.5°	44.7	48.5	80.4	153.2	265.5	804.2	1073.6	708.5	653.6	183.8	125.1
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°	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3	5323.3
2.5°	5331.0	5346.3	5305.5	5265.9	5230.2	5180.4	5135.7	5098.7	5073.1	5069.3	5056.5
5°	5348.9	5350.2	5272.3	5167.6	5065.5	4953.1	4837.0	4754.0	4676.1	4632.7	4611.0
7.5°	5361.6	5350.2	5209.7	5039.9	4843.4	4639.1	4434.8	4271.4	4145.1	4095.3	4114.4
10°	5356.5	5320.8	5115.3	4843.4	4557.4	4252.3	3958.7	3728.9	3518.3	3409.8	3412.3
12.5°	5328.5	5269.7	4974.8	4622.5	4202.5	3794.0	3344.6	3034.4	2790.6	2646.4	2601.7
15°	5304.2	5202.1	4810.2	4322.5	3800.4	3217.0	2669.3	2286.4	2082.1	1968.5	1967.2
17.5°	5278.7	5137.0	4630.2	4004.6	3338.3	2587.6	2013.2	1720.8	1625.1	1636.6	1617.4
20°	5251.9	5060.4	4442.5	3651.0	2775.3	1930.2	1507.6	1388.9	1415.7	1468.1	1475.7
22.5°	5221.2	4978.7	4240.8	3261.7	2183.0	1452.8	1223.0	1205.1	1274.0	1355.7	1367.2
25°	5174.0	4876.5	3986.8	2854.4	1683.8	1170.6	1071.1	1083.8	1151.5	1220.4	1228.1
27.5°	5107.6	4750.2	3730.2	2346.4	1265.1	1004.7	979.1	995.7	1028.9	1071.1	1081.3
30°	5018.2	4607.2	3435.3	1907.2	1013.6	921.7	911.5	920.4	939.6	957.4	962.5
32.5°	4928.9	4469.3	3137.8	1460.4	903.8	866.8	856.6	856.6	856.6	859.1	860.4
35°	4845.9	4339.1	2818.7	1137.4	846.4	823.4	809.4	794.0	791.5	782.5	782.5
37.5°	4799.9	4220.4	2479.1	952.3	804.2	787.7	768.5	743.0	728.9	730.2	727.7
40°	4808.9	4142.5	2170.2	847.7	769.8	751.9	722.5	693.2	684.2	684.2	681.7
42.5°	4909.7	4117.0	1874.0	792.8	736.6	716.2	679.1	652.3	647.2	646.0	648.5
45°	5142.1	4179.5	1608.5	757.0	708.5	677.9	640.8	616.6	611.5	611.5	610.2
47.5°	5595.3	4382.5	1418.3	734.0	688.1	648.5	610.2	586.0	577.0	574.5	574.5
50°	6299.9	4822.9	1276.6	713.6	662.5	621.7	582.1	554.0	540.0	538.7	537.4
52.5°	7279.1	5509.7	1221.7	698.3	634.5	593.6	550.2	523.4	505.5	501.7	499.1
55°	8424.2	6468.4	1297.0	686.8	605.1	561.7	517.0	488.9	472.3	464.7	463.4
57.5°	9750.5	7619.9	1583.0	671.5	578.3	527.2	483.8	455.7	437.9	428.9	426.4
60°	10941.6	8803.3	2082.1	662.5	555.3	490.2	445.5	420.0	403.4	394.5	393.2
62.5°	12250.1	9931.8	2678.3	686.8	545.1	454.5	409.8	386.8	372.8	363.8	363.8
65°	13647.9	11061.6	3072.7	768.5	560.4	426.4	371.5	352.3	339.6	333.2	331.9
67.5°	14590.1	11452.2	2531.5	852.8	598.7	395.7	334.5	319.1	311.5	305.1	305.1
69°	14487.9	10958.2	1867.6	874.5	610.2	380.4	314.0	302.5	292.3	289.8	287.2
70°	14165.0	10395.2	1565.1	860.4	601.3	366.4	301.3	287.2	278.3	275.7	274.5
72.5°	12616.5	9015.2	1165.5	748.1	511.9	317.9	266.8	254.0	246.4	242.6	242.6
75°	10482.0	7368.4	910.2	594.9	400.8	268.1	228.5	218.3	211.9	209.4	208.1
77.5°	5874.8	4114.4	653.6	466.0	303.8	217.0	191.5	182.6	176.2	173.6	173.6
80°	1636.6	1175.7	384.3	307.7	206.8	164.7	151.9	145.5	136.6	130.2	134.0
82.5°	616.6	509.4	219.6	185.1	131.5	109.8	106.0	100.8	97.0	88.1	88.1
85°	300.0	247.7	140.4	98.3	72.8	57.4	54.9	52.3	49.8	43.4	44.7
87.5°	103.4	109.8	61.3	35.7	21.7	14.0	11.5	6.4	6.4	6.4	6.4
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)