

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: P529739

Luminaire Tested: **GALN-SA4D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14194 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 245
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



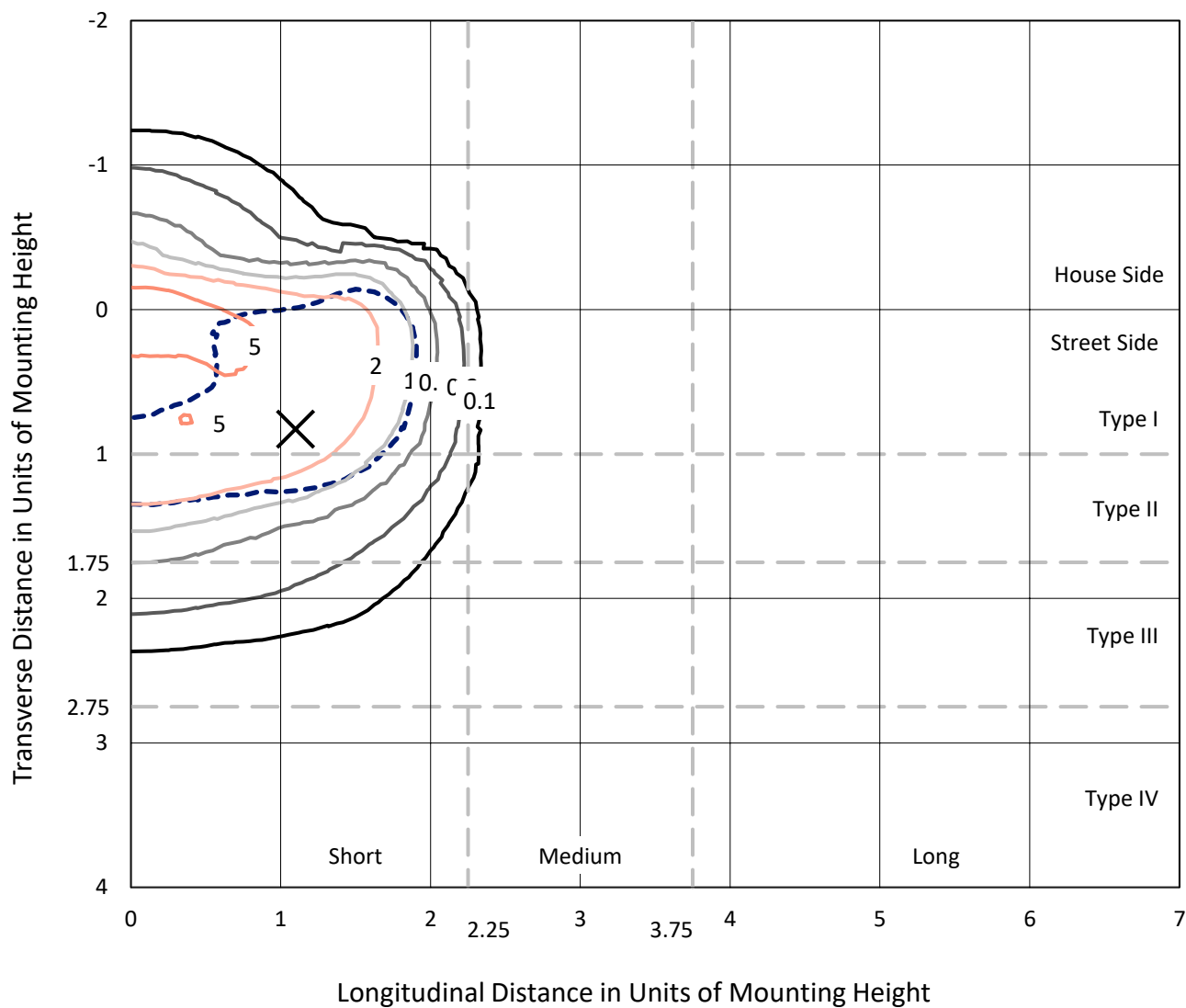
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

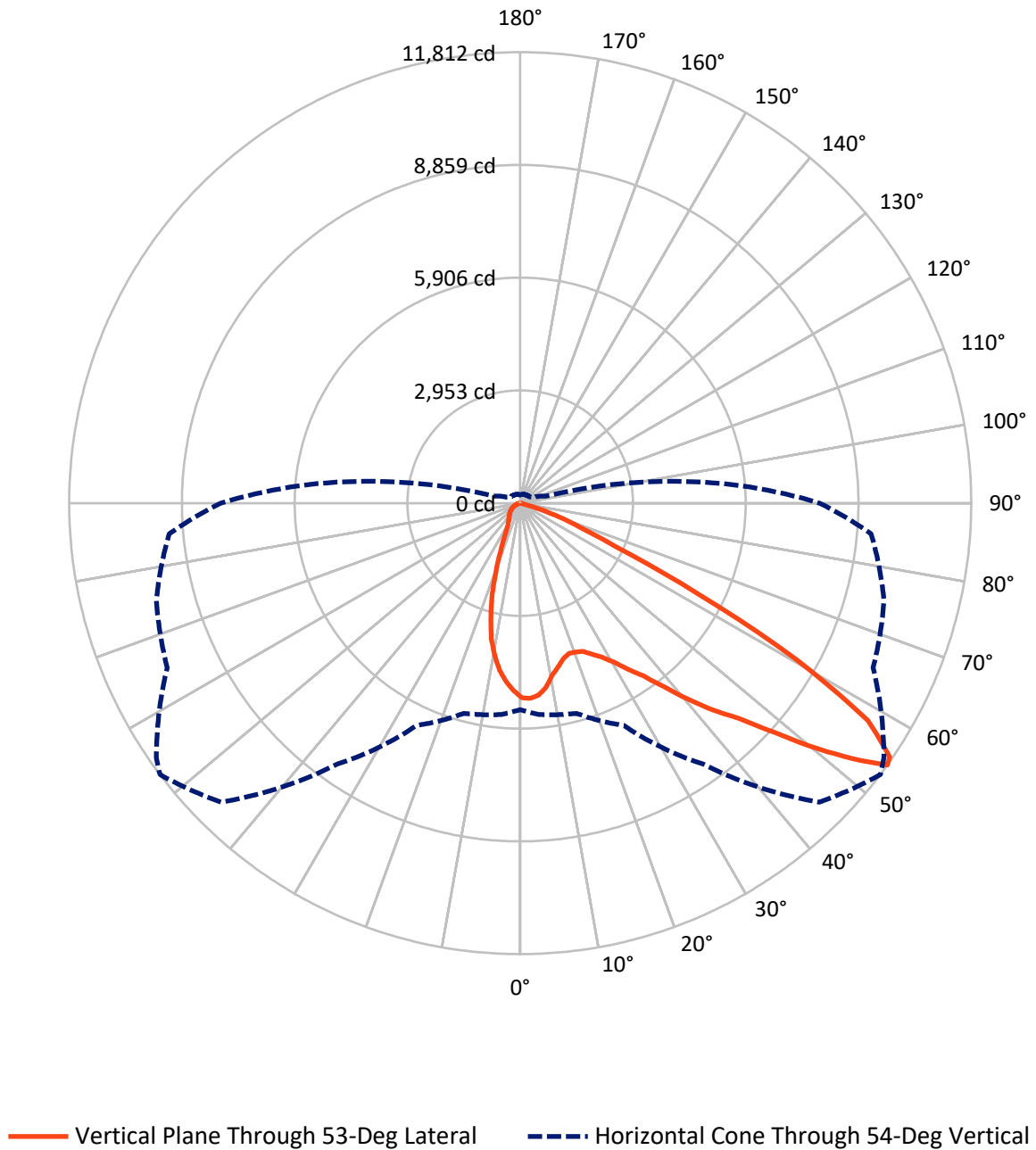


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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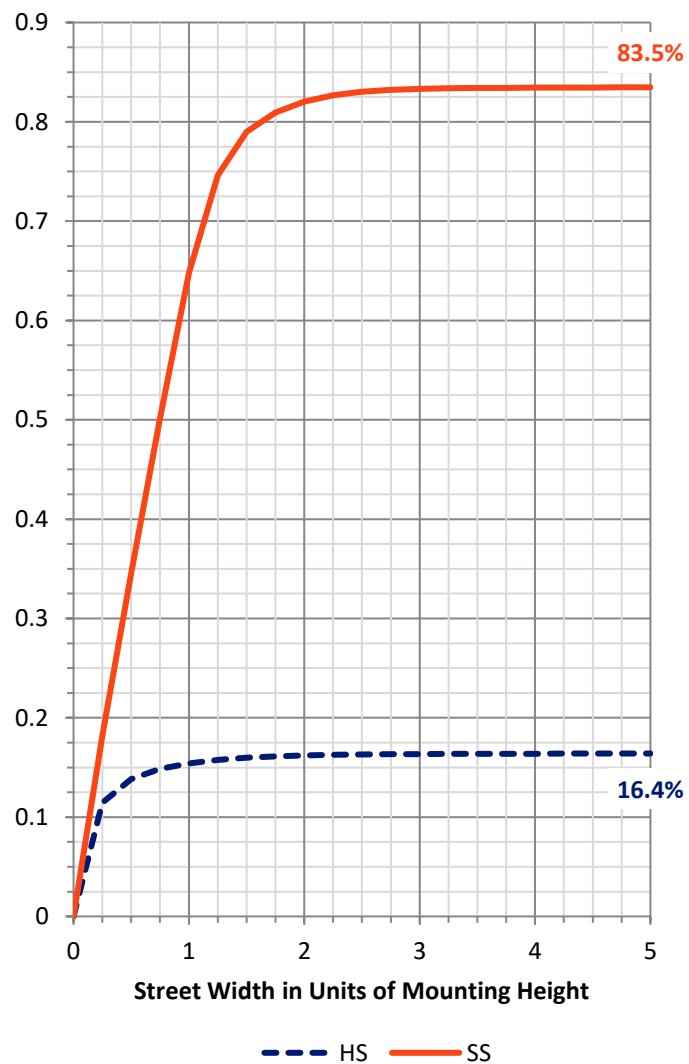
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2348.4	0.0	2348.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11845.6	0.0	11845.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	14194.0	0.0	14194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.4	3.1
10°-20°	1002.9	7.1
20°-30°	1425.3	10.0
30°-40°	2199.6	15.5
40°-50°	3448.7	24.3
50°-60°	4006.2	28.2
60°-70°	1513.8	10.7
70°-80°	144.0	1.0
80°-90°	16.2	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°	14194.0	100.0
0°-180°	14194.0	100.0

Coefficient of Utilization



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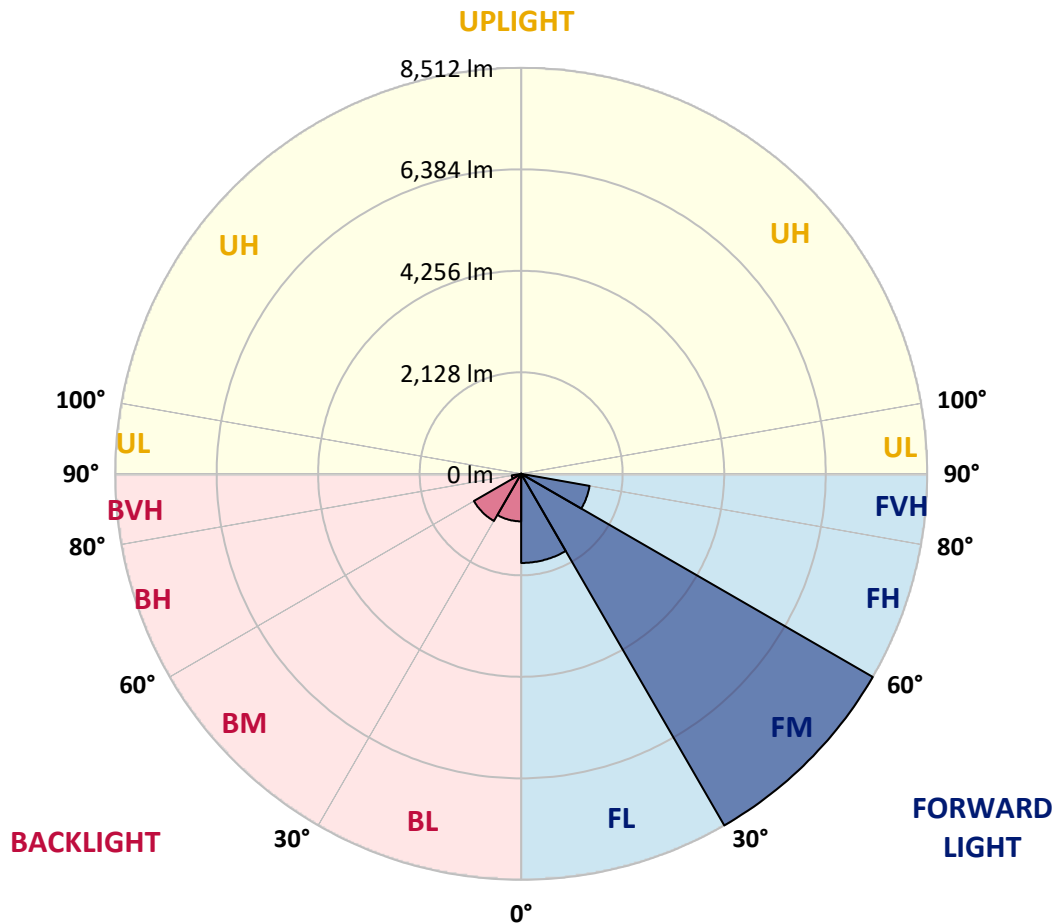
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1869.0	13.2			
FM	(30°-60°)	8511.7	60.0			
FH	(60°-80°)	1456.5	10.3			G1/1800
FVH	(80°-90°)	8.4	0.1			G0/10
BL	(0°-30°)	996.6	7.0	B2/1000		
BM	(30°-60°)	1142.8	8.1	B2/2500		
BH	(60°-80°)	201.2	1.4	B1/500		G1/500
BVH	(80°-90°)	7.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2
2.5°	5071.8	5026.8	5071.8	5077.1	5108.8	5137.9	5119.4	5161.7	5137.9	5111.5	5103.5
5°	4661.9	4722.8	4725.4	4820.6	4799.4	4974.0	5050.6	5029.5	5159.1	5151.1	5132.6
7.5°	4294.4	4270.6	4302.3	4413.4	4553.5	4754.5	4865.5	4862.9	5048.0	5180.2	5167.0
10°	3953.3	3950.6	4016.7	4104.0	4223.0	4434.5	4587.9	4664.6	4952.8	5153.8	5182.9
12.5°	3723.2	3712.6	3784.0	3855.4	4043.2	4207.1	4402.8	4439.8	4770.4	5061.2	5108.8
15°	3572.5	3596.3	3601.6	3739.1	3858.1	4074.9	4228.3	4305.0	4685.7	4987.2	5169.6
17.5°	3546.0	3577.8	3580.4	3694.1	3821.0	4003.5	4138.4	4241.5	4614.3	5024.2	5172.3
20°	3598.9	3580.4	3596.3	3667.7	3792.0	3966.5	4162.2	4196.5	4590.5	5042.7	5201.4
22.5°	3749.6	3744.4	3704.7	3762.9	3850.1	4032.6	4217.7	4270.6	4659.3	5137.9	5225.2
25°	3916.2	3945.3	3908.3	3900.4	3961.2	4141.0	4386.9	4455.7	4889.3	5309.8	5299.2
27.5°	4228.3	4199.2	4199.2	4162.2	4146.3	4233.6	4569.4	4683.1	5145.8	5531.9	5383.8
30°	4527.1	4558.8	4535.0	4548.2	4442.5	4434.5	4828.5	4968.7	5600.7	5870.4	5563.6
32.5°	5000.4	4958.1	4997.8	4963.4	4823.2	4680.4	5180.2	5325.7	6150.7	6259.1	5833.4
35°	5394.4	5375.9	5545.1	5539.8	5312.4	5172.3	5553.1	5769.9	6534.1	6724.5	6150.7
37.5°	5955.0	5920.6	6113.7	6206.2	6002.6	5793.7	6087.2	6338.4	6891.1	7097.4	6475.9
40°	6531.5	6618.7	6877.9	7031.2	6814.4	6536.8	6740.4	6817.1	7129.1	7340.6	6698.1
42.5°	7261.3	7388.2	7652.7	7784.9	7766.4	7464.9	7404.1	7401.4	7301.0	7271.9	6862.0
45°	7962.0	7914.4	8321.7	8609.9	8842.6	8755.3	8044.0	7964.7	7573.3	7375.0	6904.3
47.5°	8268.8	8252.9	8530.6	9043.6	9836.9	9945.3	8974.8	8668.1	8033.4	7808.7	7134.4
50°	7872.1	7954.1	8229.1	8797.6	10014.0	10841.7	10117.2	9704.6	8570.2	8337.5	7679.1
52.5°	6576.4	6632.0	6893.7	7615.6	9411.1	11370.6	11211.9	10973.9	9556.6	9170.5	8628.4
54°	5407.6	5555.7	5698.5	6423.0	8337.5	11077.0	11812.2	11629.7	10199.1	9863.3	9226.0
55°	4709.5	4796.8	4899.9	5621.8	7594.5	10579.9	11743.4	11759.3	10630.2	10080.1	9628.0
57.5°	3440.3	3501.1	3395.3	3715.3	5214.6	8591.4	10741.2	11169.6	11211.9	10405.4	9873.9
60°	2628.5	2654.9	2535.9	2586.1	3241.9	5896.8	8308.4	8824.1	10114.5	9093.8	8364.0
62.5°	2038.8	2044.1	2041.4	2128.7	2234.4	3469.3	5196.1	5653.6	6973.1	6457.4	5680.0
65°	1502.0	1478.2	1520.5	1784.9	1906.6	2181.6	2736.9	3070.1	3789.3	3199.6	2287.3
67.5°	973.1	981.0	1023.4	1327.4	1634.2	1673.9	1684.4	1658.0	1660.6	914.9	573.8
70°	584.4	597.6	584.4	751.0	1168.8	1200.5	1097.4	1070.9	835.6	216.8	214.2
72.5°	346.4	327.9	293.5	322.6	486.6	581.8	523.6	520.9	327.9	126.9	126.9
75°	145.4	132.2	108.4	97.8	129.6	124.3	124.3	111.1	87.3	84.6	79.3
77.5°	29.1	29.1	21.2	23.8	31.7	37.0	45.0	45.0	52.9	52.9	50.2
80°	0.0	2.6	7.9	15.9	23.8	34.4	39.7	39.7	45.0	45.0	37.0
82.5°	0.0	2.6	7.9	15.9	21.2	31.7	39.7	39.7	45.0	47.6	39.7
85°	0.0	2.6	7.9	13.2	21.2	26.4	26.4	23.8	18.5	15.9	10.6
87.5°	0.0	0.0	2.6	5.3	2.6	5.3	5.3	5.3	5.3	5.3	5.3
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°	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2	5098.2
2.5°	5122.0	5119.4	5055.9	4952.8	4929.0	4841.7	4831.2	4778.3	4807.4	4709.5	4699.0
5°	5079.7	5048.0	4971.3	4905.2	4712.2	4574.7	4466.3	4334.0	4257.4	4270.6	4220.3
7.5°	5140.6	5058.6	4923.7	4693.7	4458.3	4217.7	4088.1	3818.4	3720.6	3575.1	3554.0
10°	5077.1	5016.3	4807.4	4426.6	4101.3	3754.9	3450.8	3152.0	2924.6	2826.8	2805.6
12.5°	5071.8	4966.0	4617.0	4193.9	3723.2	3226.1	2784.5	2411.6	2186.9	2059.9	2030.8
15°	4989.8	4862.9	4402.8	3834.3	3183.8	2565.0	2083.7	1724.1	1552.2	1478.2	1499.3
17.5°	4997.8	4807.4	4188.6	3453.5	2652.3	1882.8	1422.6	1237.5	1192.6	1211.1	1211.1
20°	4989.8	4683.1	3929.5	3014.5	2030.8	1306.3	1044.5	978.4	1007.5	1065.7	1052.4
22.5°	4947.5	4624.9	3691.5	2551.8	1494.0	967.8	838.2	840.9	885.8	957.2	973.1
25°	4979.3	4495.3	3390.0	2083.7	1089.5	772.1	727.2	745.7	793.3	846.2	856.8
27.5°	4955.5	4402.8	3075.3	1618.3	795.9	663.7	661.1	682.2	703.4	743.1	743.1
30°	4981.9	4318.2	2766.0	1203.2	655.8	608.2	597.6	613.5	634.6	642.6	639.9
32.5°	5079.7	4254.7	2409.0	899.1	579.1	555.3	555.3	555.3	552.7	563.2	565.9
35°	5293.9	4265.3	2094.3	695.5	528.9	510.4	502.4	491.8	486.6	491.8	494.5
37.5°	5526.6	4260.0	1769.0	592.3	491.8	476.0	457.5	441.6	439.0	444.2	436.3
40°	5629.8	4310.2	1467.6	531.5	457.5	439.0	409.9	396.6	399.3	404.6	399.3
42.5°	5769.9	4326.1	1271.9	483.9	425.7	396.6	378.1	362.3	359.6	367.6	364.9
45°	5767.3	4236.2	1065.7	457.5	396.6	364.9	341.1	327.9	327.9	333.2	335.8
47.5°	5936.5	4223.0	914.9	433.7	375.5	343.8	314.7	304.1	301.5	301.5	296.2
50°	6330.5	4408.1	798.6	407.2	349.1	320.0	296.2	282.9	272.4	267.1	264.4
52.5°	7100.0	4984.5	708.7	375.5	320.0	296.2	275.0	264.4	251.2	238.0	235.3
54°	7845.7	5579.5	703.4	349.1	296.2	280.3	261.8	256.5	240.6	222.1	216.8
55°	8181.5	5925.9	721.9	327.9	280.3	269.7	253.9	248.6	232.7	211.5	208.9
57.5°	8459.2	6060.8	711.3	272.4	253.9	251.2	238.0	230.1	211.5	182.5	177.2
60°	6809.1	4582.6	510.4	240.6	232.7	227.4	216.8	211.5	187.7	156.0	153.4
62.5°	4302.3	2636.4	325.3	211.5	203.6	195.7	182.5	177.2	156.0	124.3	116.4
65°	1832.5	1092.1	219.5	187.7	174.5	161.3	150.7	142.8	124.3	92.6	89.9
67.5°	476.0	388.7	182.5	163.9	145.4	126.9	119.0	105.8	84.6	63.5	60.8
70°	214.2	195.7	153.4	137.5	116.4	97.8	87.3	74.0	55.5	42.3	39.7
72.5°	126.9	124.3	116.4	103.1	87.3	74.0	63.5	50.2	37.0	23.8	23.8
75°	79.3	76.7	79.3	71.4	60.8	55.5	47.6	34.4	21.2	10.6	10.6
77.5°	47.6	47.6	47.6	45.0	42.3	42.3	34.4	21.2	10.6	2.6	2.6
80°	37.0	37.0	39.7	37.0	37.0	37.0	29.1	15.9	5.3	0.0	0.0
82.5°	37.0	39.7	45.0	42.3	37.0	31.7	26.4	15.9	5.3	0.0	0.0
85°	10.6	7.9	13.2	18.5	26.4	23.8	18.5	13.2	5.3	0.0	0.0
87.5°	5.3	5.3	5.3	5.3	2.6	2.6	2.6	2.6	2.6	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)