

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: P529272

Luminaire Tested: **GALN-SA4B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15161 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
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

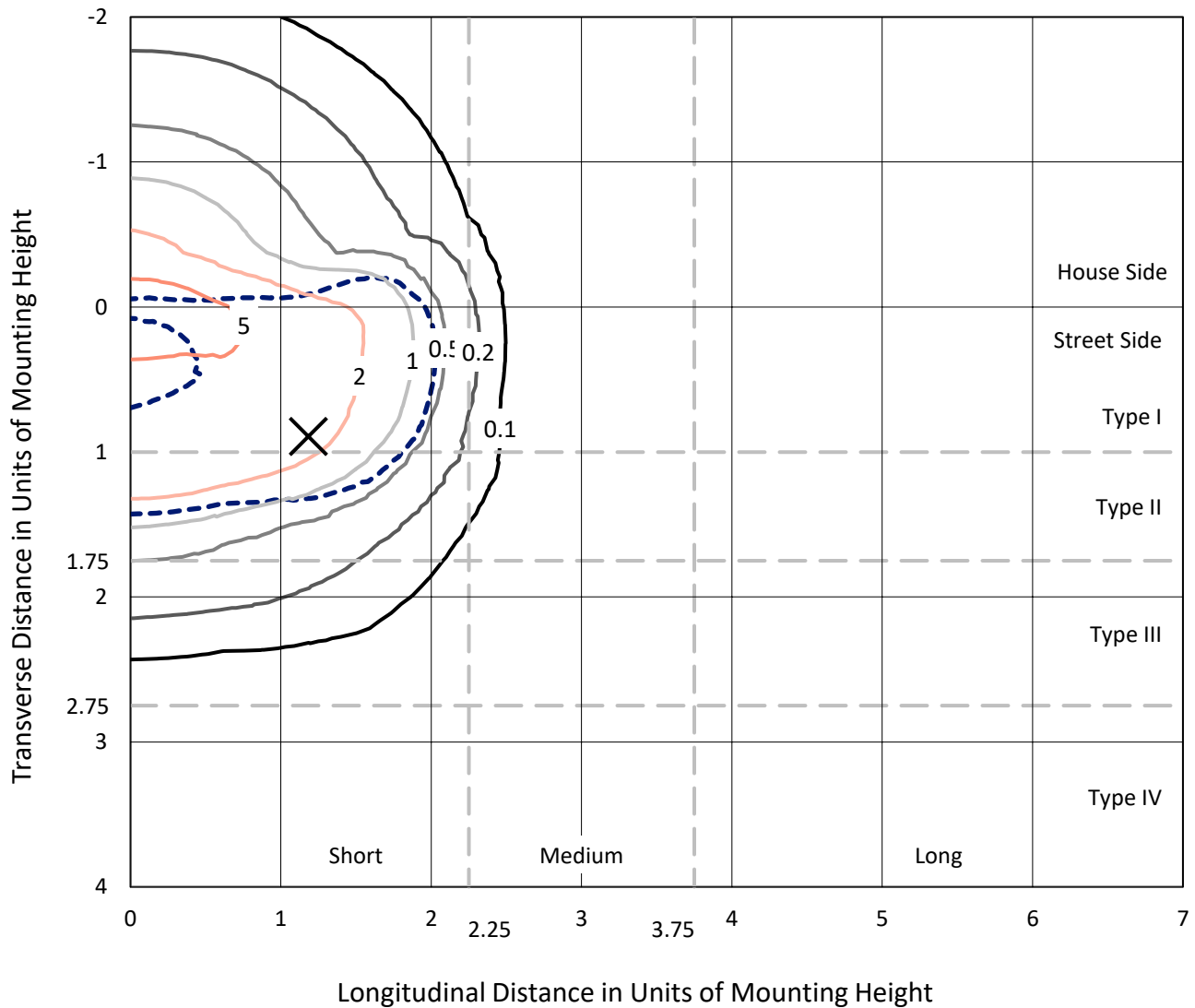


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

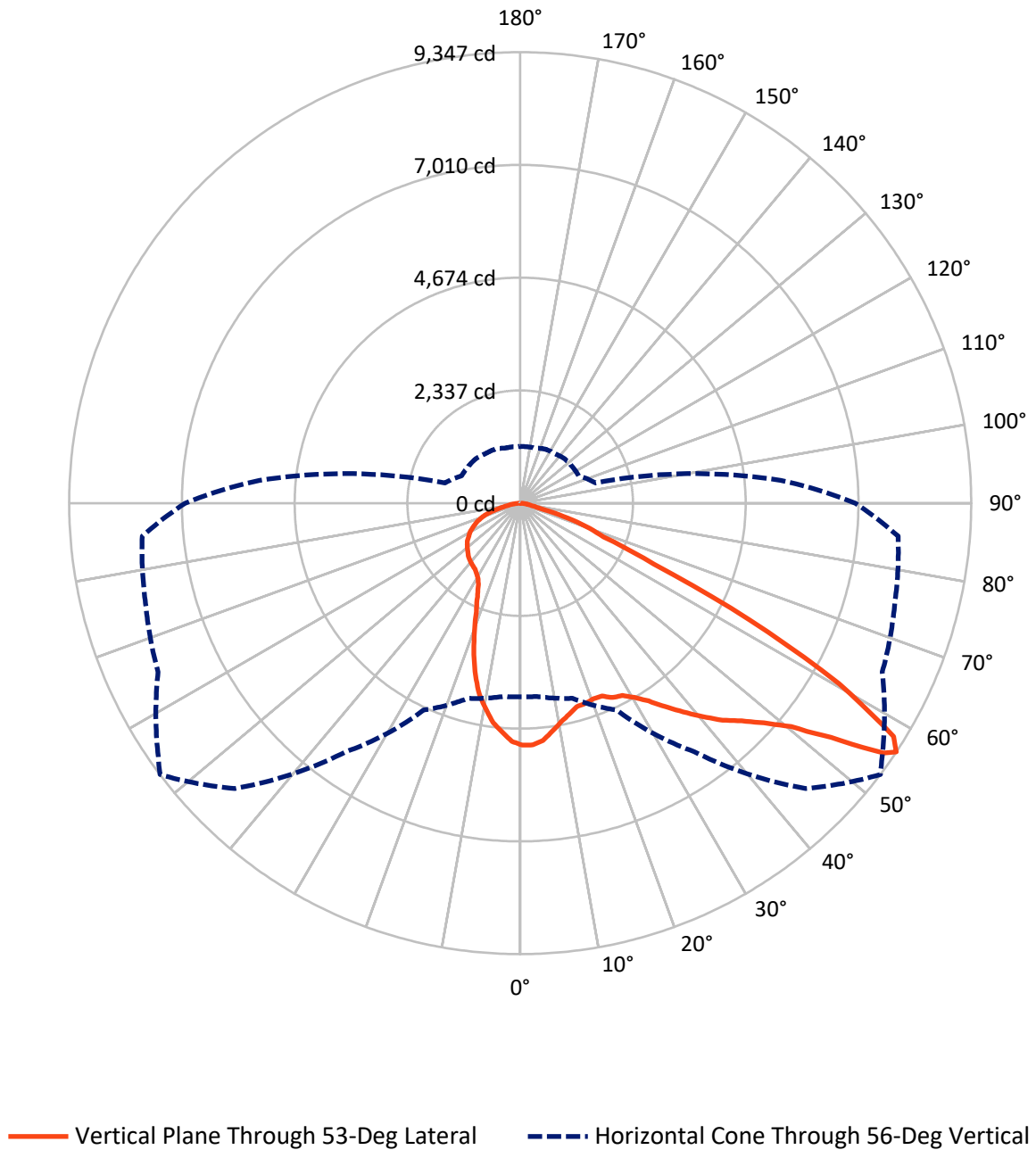


Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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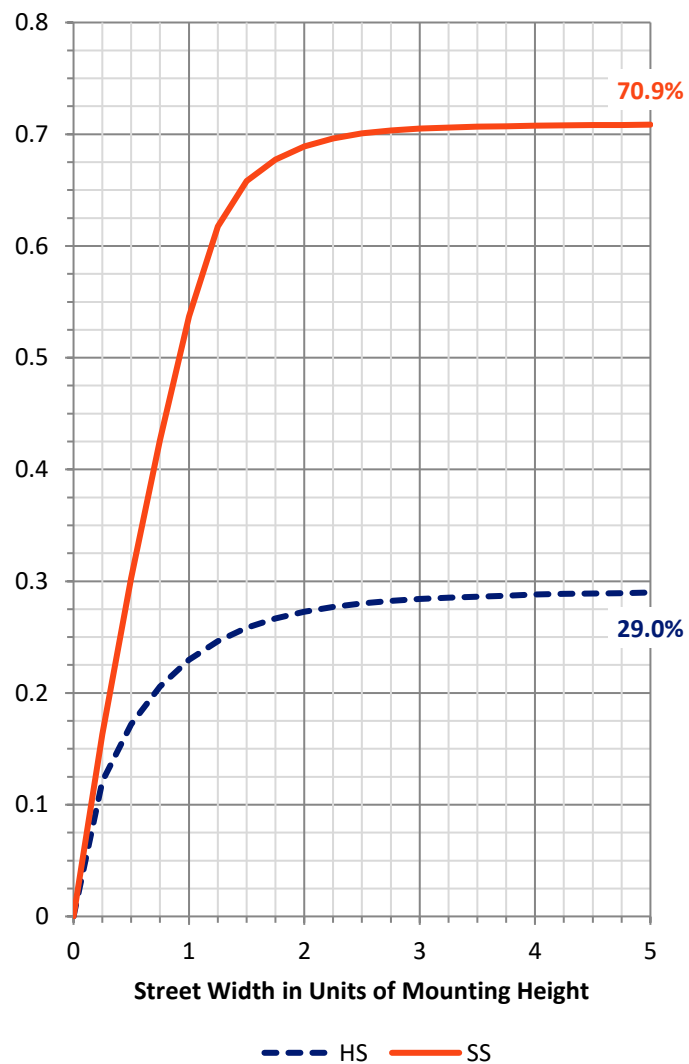
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4424.3	0.0	4424.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10736.7	0.0	10736.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	15161.0	0.0	15161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.0	2.9
10°-20°	1109.0	7.3
20°-30°	1635.4	10.8
30°-40°	2336.6	15.4
40°-50°	3216.1	21.2
50°-60°	3800.5	25.1
60°-70°	2025.4	13.4
70°-80°	513.8	3.4
80°-90°	80.1	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°	15161.0	100.0
0°-180°	15161.0	100.0

Coefficient of Utilization



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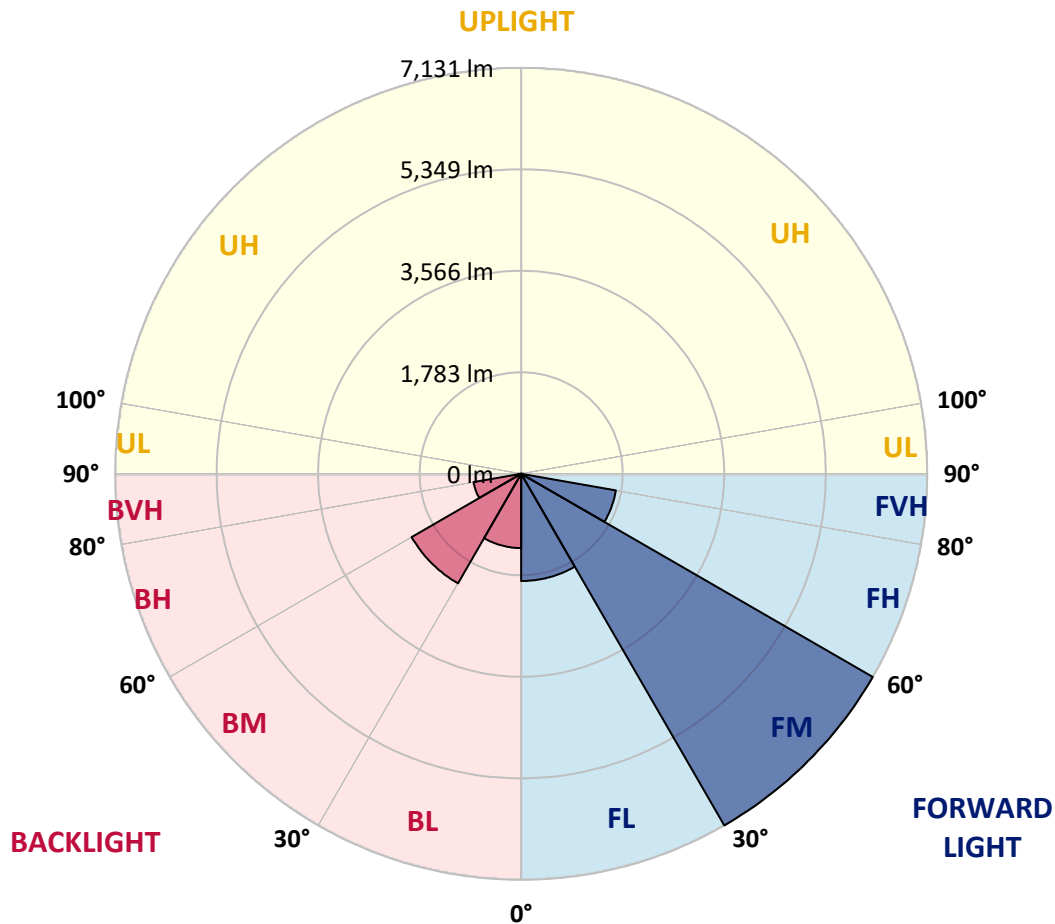
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.5	12.4			
FM	(30°-60°)	7131.4	47.0			
FH	(60°-80°)	1689.5	11.1			G1/1800
FVH	(80°-90°)	32.2	0.2			G1/100
BL	(0°-30°)	1304.9	8.6	B3/2500		
BM	(30°-60°)	2221.7	14.7	B2/2500		
BH	(60°-80°)	849.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	47.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9
2.5°	4953.6	4910.8	4936.1	4926.4	5006.1	5029.5	5017.8	5027.5	5072.3	5050.9	5006.1
5°	4628.8	4689.1	4700.8	4730.0	4776.6	4868.0	4940.0	4959.5	4980.8	5080.0	5070.3
7.5°	4333.2	4374.0	4352.7	4438.2	4539.4	4687.2	4774.7	4790.2	4986.7	5041.1	5082.0
10°	4146.5	4105.7	4202.9	4226.2	4341.0	4510.2	4615.2	4679.4	4858.3	5074.2	5099.5
12.5°	3973.4	3959.8	4018.1	4084.3	4212.6	4387.7	4494.6	4519.9	4796.1	5023.6	5142.3
15°	3845.0	3829.5	3887.8	3936.4	4086.2	4241.8	4377.9	4449.9	4728.0	4994.5	5105.3
17.5°	3743.9	3742.0	3775.0	3862.5	4016.2	4146.5	4366.3	4370.2	4693.0	5039.2	5136.4
20°	3738.1	3736.1	3742.0	3839.2	3979.2	4138.7	4329.3	4364.3	4693.0	5008.1	5138.4
22.5°	3786.7	3755.6	3790.6	3852.8	3953.9	4152.3	4342.9	4420.7	4805.8	5161.7	5225.9
25°	3864.5	3872.3	3891.7	3913.1	3971.5	4183.4	4463.5	4527.7	4938.1	5294.0	5346.5
27.5°	4006.5	4002.6	4010.4	4022.0	4072.6	4212.6	4512.1	4677.4	5214.2	5529.3	5476.8
30°	4214.6	4200.9	4232.1	4272.9	4226.2	4306.0	4673.6	4798.0	5471.0	5766.6	5622.7
32.5°	4403.2	4453.8	4512.1	4529.6	4473.2	4488.8	4887.5	5013.9	5684.9	6058.3	5801.6
35°	4638.5	4679.4	4757.2	4811.6	4801.9	4755.2	5179.2	5346.5	5994.1	6272.3	5990.2
37.5°	4868.0	4916.7	5045.0	5206.5	5117.0	5095.6	5490.4	5628.5	6089.4	6387.0	6128.3
40°	5237.6	5235.6	5457.3	5541.0	5620.7	5583.8	5813.3	5859.9	6140.0	6361.7	6132.2
42.5°	5671.3	5644.1	5869.7	6000.0	6103.0	6106.9	6149.7	6134.2	6163.3	6233.4	6091.4
45°	6083.6	6141.9	6369.5	6602.9	6706.0	6717.6	6433.7	6404.5	6204.2	6196.4	6013.6
47.5°	6587.3	6600.9	6787.6	7094.9	7334.2	7252.5	6801.3	6737.1	6383.1	6443.4	6143.9
50°	6616.5	6717.6	6884.9	7246.6	7981.8	7960.4	7277.8	7157.2	6671.0	6793.5	6507.6
52.5°	6005.8	5982.5	6180.8	6772.1	7933.2	8664.5	8067.4	7779.5	7289.4	7196.1	7096.9
55°	4576.3	4630.8	4805.8	5402.9	6888.8	8674.2	9142.9	8907.6	7950.7	7791.2	7676.5
56°	4014.2	4022.0	4187.3	4731.9	6285.9	8364.9	9347.1	9156.5	8279.4	8036.3	7861.2
57.5°	3327.7	3283.0	3368.5	3666.1	5305.6	7711.5	9123.5	9310.2	8664.5	8300.8	8057.7
60°	2619.8	2610.0	2575.0	2629.5	3353.0	5809.4	7594.8	8014.9	8625.6	8051.8	7717.3
62.5°	2139.4	2090.8	2160.8	2238.6	2330.0	3603.9	5336.8	5583.8	6847.9	6427.8	5797.7
65°	1659.0	1635.6	1723.2	1976.0	2030.5	2289.1	3039.9	3230.5	4043.4	3971.5	3496.9
67.5°	1141.6	1145.5	1221.4	1606.5	1882.6	1859.3	1861.3	1960.4	2110.2	1567.6	1365.3
70°	723.5	721.6	762.4	1034.7	1515.1	1530.6	1452.8	1423.7	1349.7	816.9	865.5
72.5°	464.8	451.2	472.6	571.8	783.8	906.3	933.5	951.0	781.8	641.8	696.3
75°	262.6	248.9	241.2	266.4	309.2	357.9	392.9	404.5	453.2	486.2	515.4
77.5°	79.7	72.0	87.5	116.7	153.6	206.2	250.9	258.7	305.3	344.2	373.4
80°	35.0	38.9	54.5	77.8	108.9	145.9	177.0	188.7	219.8	248.9	256.7
82.5°	21.4	23.3	37.0	52.5	75.9	103.1	126.4	130.3	161.4	184.8	190.6
85°	7.8	9.7	19.4	31.1	48.6	66.1	66.1	72.0	66.1	66.1	72.0
87.5°	0.0	0.0	1.9	3.9	3.9	5.8	7.8	7.8	9.7	11.7	13.6
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°	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9	5015.9
2.5°	5029.5	5019.7	5004.2	4947.8	4942.0	4924.4	4827.2	4811.6	4827.2	4780.5	4784.4
5°	5019.7	5048.9	4932.2	4875.8	4770.8	4695.0	4607.4	4562.7	4483.0	4432.4	4488.8
7.5°	5062.5	5050.9	4905.0	4782.5	4624.9	4432.4	4278.7	4191.2	4051.2	4012.3	4041.5
10°	5047.0	4984.7	4813.6	4652.2	4354.6	4185.4	3936.4	3695.3	3563.0	3495.0	3485.2
12.5°	5025.6	5008.1	4722.2	4444.1	4130.9	3775.0	3424.9	3197.4	2981.5	2888.2	2901.8
15°	5050.9	4903.1	4551.0	4199.0	3782.8	3316.0	2938.7	2645.0	2495.3	2435.0	2435.0
17.5°	5039.2	4852.5	4469.3	3924.8	3397.7	2845.4	2431.1	2254.1	2191.9	2191.9	2209.4
20°	5045.0	4885.5	4304.0	3650.5	2942.6	2396.1	2094.6	2030.5	2057.7	2067.4	2077.1
22.5°	5078.1	4776.6	4142.6	3349.1	2520.6	2049.9	1902.1	1904.0	1952.7	2005.2	1995.5
25°	5118.9	4733.8	3946.2	3049.6	2197.7	1880.7	1834.0	1828.2	1865.1	1892.4	1896.3
27.5°	5083.9	4659.9	3745.8	2676.2	1933.2	1767.9	1758.2	1762.1	1773.7	1828.2	1810.7
30°	5198.7	4681.3	3495.0	2363.0	1787.3	1730.9	1719.3	1713.4	1730.9	1746.5	1732.9
32.5°	5340.7	4605.5	3308.2	2061.6	1715.4	1703.7	1680.4	1672.6	1682.3	1666.8	1674.5
35°	5402.9	4591.9	3065.1	1845.7	1659.0	1649.3	1635.6	1633.7	1635.6	1622.0	1610.4
37.5°	5437.9	4656.1	2787.0	1746.5	1624.0	1633.7	1602.6	1598.7	1563.7	1571.5	1577.3
40°	5498.2	4556.9	2561.4	1651.2	1602.6	1583.1	1555.9	1550.1	1526.7	1513.1	1526.7
42.5°	5410.7	4527.7	2339.7	1610.4	1571.5	1550.1	1530.6	1497.6	1489.8	1478.1	1470.3
45°	5340.7	4360.4	2141.3	1559.8	1534.5	1522.8	1485.9	1450.9	1421.7	1433.4	1415.9
47.5°	5393.2	4302.1	1944.9	1517.0	1483.9	1470.3	1433.4	1406.2	1377.0	1363.4	1359.5
50°	5603.2	4411.0	1779.6	1485.9	1441.2	1433.4	1384.8	1353.6	1326.4	1316.7	1320.6
52.5°	6105.0	4708.6	1666.8	1421.7	1400.3	1365.3	1338.1	1299.2	1281.7	1250.6	1270.0
55°	6741.0	5192.8	1637.6	1361.4	1349.7	1318.6	1281.7	1252.5	1219.4	1194.2	1188.3
56°	6945.2	5424.3	1614.3	1338.1	1318.6	1301.1	1252.5	1235.0	1182.5	1176.7	1172.8
57.5°	7110.5	5628.5	1618.1	1293.3	1273.9	1258.3	1229.2	1186.4	1151.4	1130.0	1139.7
60°	6737.1	5268.7	1544.2	1225.3	1221.4	1192.2	1151.4	1131.9	1089.1	1063.9	1058.0
62.5°	5008.1	3576.6	1252.5	1137.8	1135.8	1104.7	1058.0	1036.6	1028.8	993.8	993.8
65°	2884.3	2242.5	1083.3	1065.8	1050.2	1019.1	972.4	954.9	935.5	923.8	914.1
67.5°	1231.1	1163.0	984.1	982.2	964.7	925.8	879.1	851.9	826.6	803.2	814.9
70°	892.7	906.3	888.8	879.1	857.7	809.1	768.2	735.2	696.3	680.7	692.4
72.5°	707.9	737.1	762.4	764.3	739.1	682.7	637.9	593.2	550.4	529.0	538.7
75°	536.8	556.2	581.5	587.4	550.4	511.5	468.7	422.0	389.0	363.7	367.6
77.5°	387.0	383.1	406.5	402.6	385.1	357.9	319.0	276.2	239.2	215.9	217.8
80°	264.5	270.3	284.0	282.0	260.6	243.1	213.9	178.9	151.7	132.3	128.4
82.5°	184.8	194.5	206.2	196.4	178.9	161.4	140.0	114.7	93.4	77.8	73.9
85°	66.1	75.9	87.5	93.4	99.2	95.3	79.7	64.2	46.7	38.9	37.0
87.5°	13.6	15.6	17.5	17.5	17.5	15.6	13.6	13.6	11.7	5.8	5.8
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)