

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: P534430

Luminaire Tested: **GALN-SA9D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48971 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 552
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



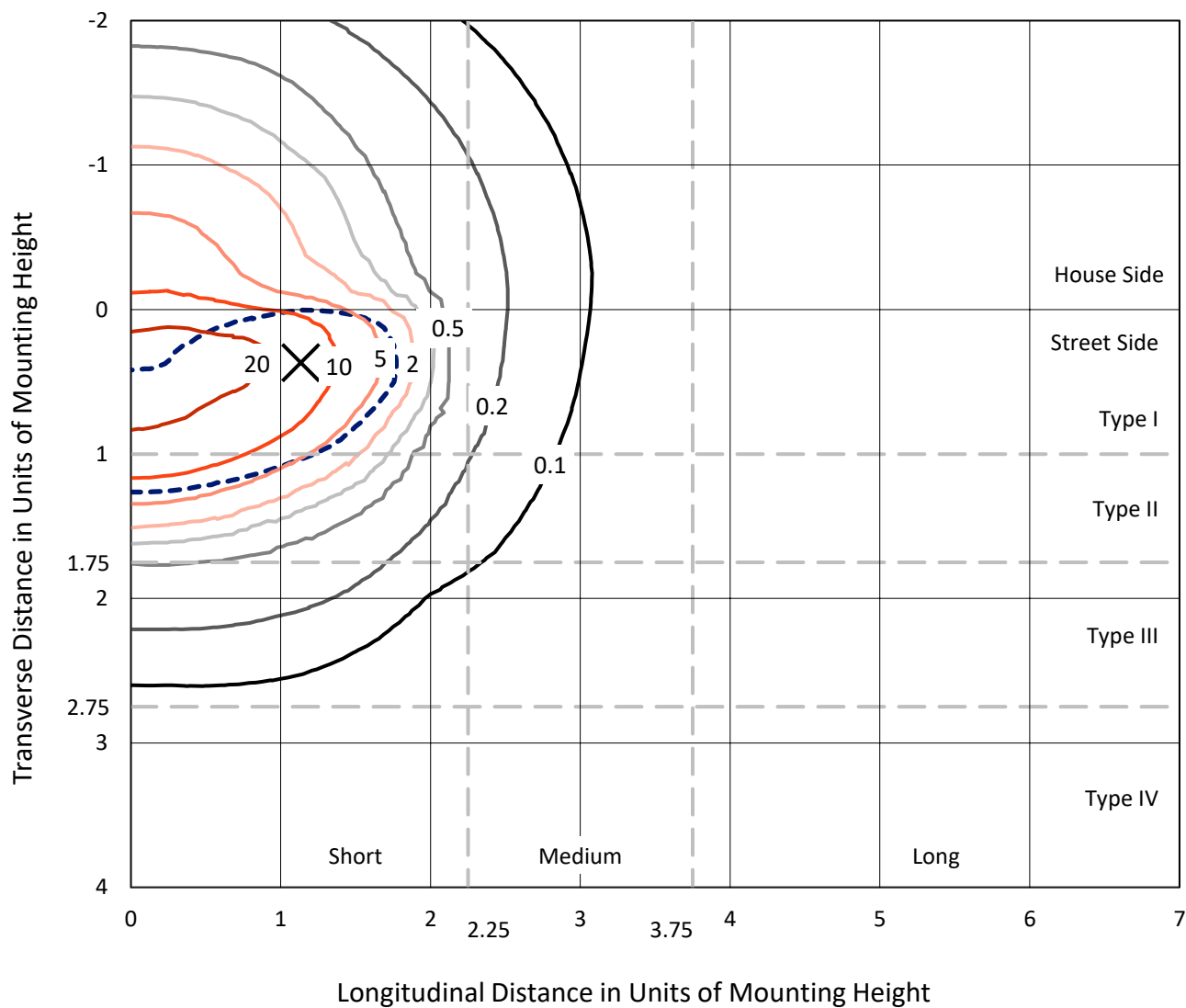
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

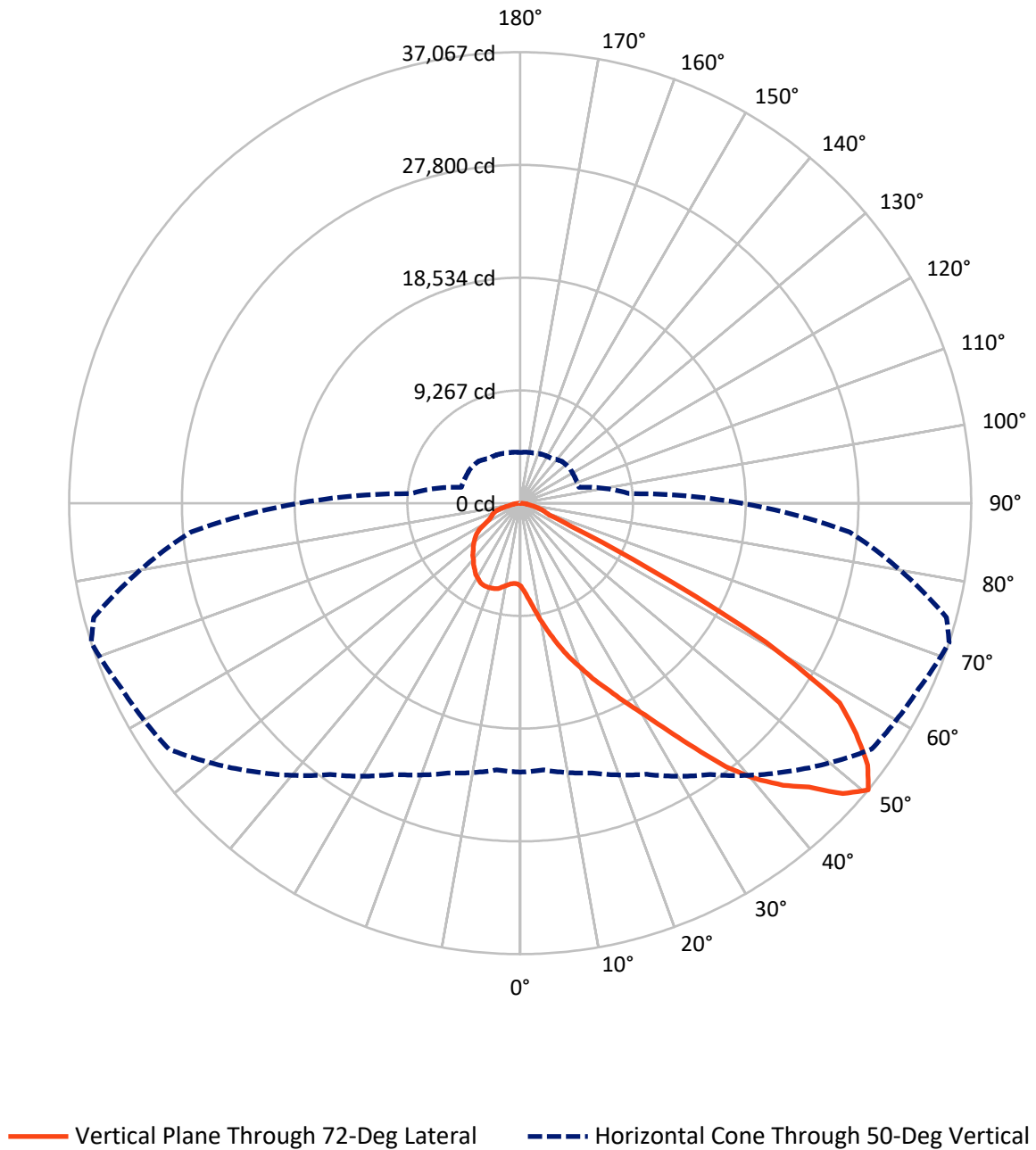
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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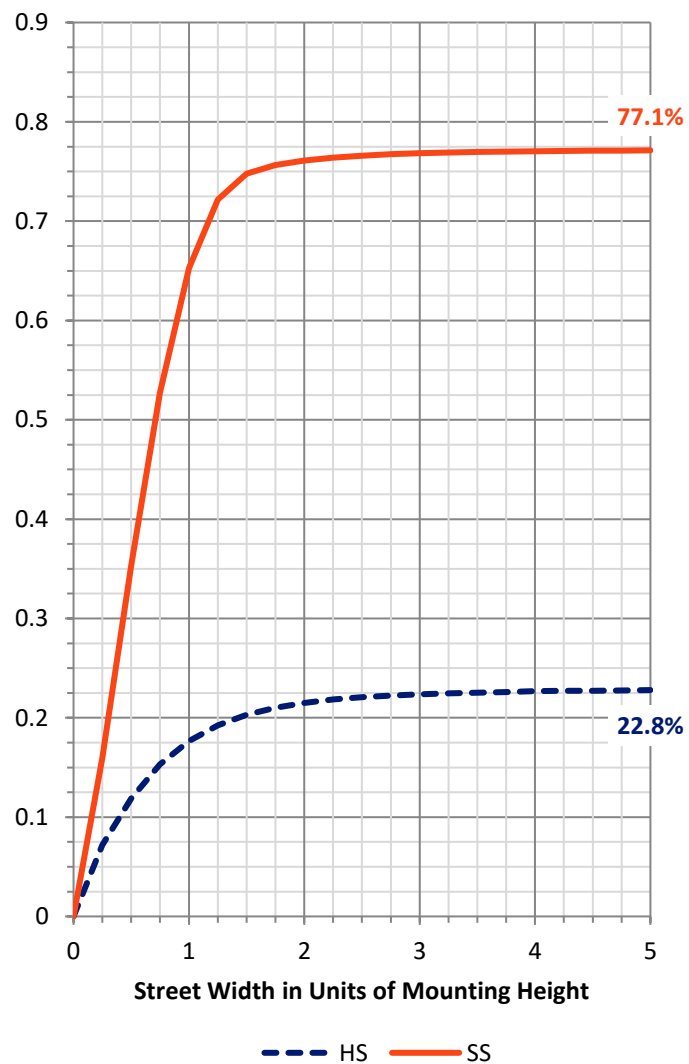
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11219.5	0.0	11219.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	37751.4	0.0	37751.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	48971.0	0.0	48971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.9	1.6
10°-20°	2997.7	6.1
20°-30°	5812.3	11.9
30°-40°	9628.9	19.7
40°-50°	13473.0	27.5
50°-60°	11366.2	23.2
60°-70°	3464.4	7.1
70°-80°	1215.4	2.5
80°-90°	211.3	0.4
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°	48971.0	100.0
0°-180°	48971.0	100.0

Coefficient of Utilization



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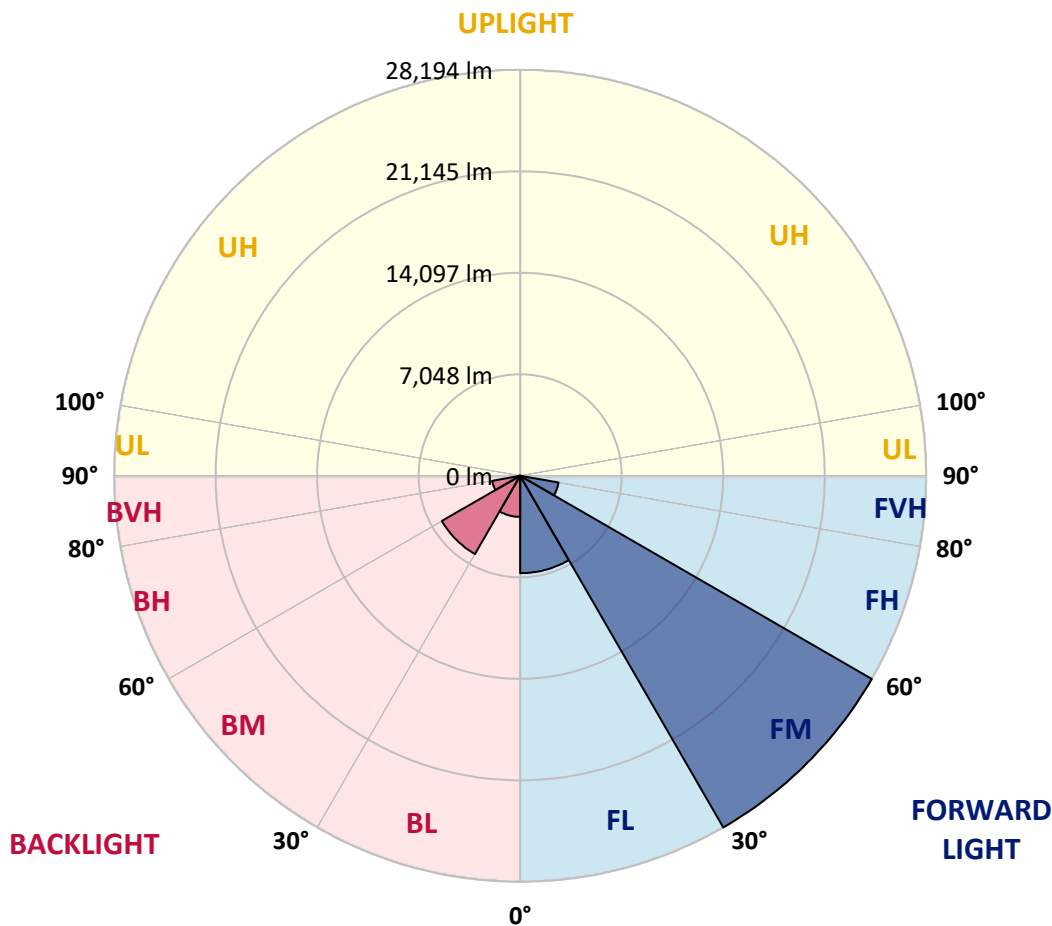
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6759.8	13.8			
FM	(30°-60°)	28193.9	57.6			
FH	(60°-80°)	2703.1	5.5			G2/5000
FVH	(80°-90°)	94.6	0.2			G1/100
BL	(0°-30°)	2852.1	5.8	B4/5000		
BM	(30°-60°)	6274.1	12.8	B4/8500		
BH	(60°-80°)	1976.7	4.0	B3/2500		G3/2500
BVH	(80°-90°)	116.7	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2
2.5°	8768.4	8713.9	8550.3	8495.7	8301.8	7950.3	7829.2	7471.6	7320.1	7180.8	7017.2
5°	11089.3	10834.8	10816.6	10507.5	10059.1	9798.6	9022.9	8501.8	8023.1	7780.7	7332.3
7.5°	12567.9	12573.9	12573.9	12319.4	11961.9	11301.4	10604.5	9665.2	8944.1	8586.6	7823.1
10°	13973.7	13852.5	13785.9	13761.6	13519.2	12876.9	12131.6	10968.1	9980.4	9562.2	8192.7
12.5°	14967.5	14864.5	15016.0	14937.2	14761.5	14343.3	13640.4	12313.3	11077.2	10513.6	8786.6
15°	15440.2	15512.9	15634.1	15852.2	15773.4	15615.9	14840.2	13695.0	12258.8	11622.5	9313.8
17.5°	16167.3	15967.4	16112.8	16385.5	16603.6	16530.9	16088.5	14694.8	13428.3	12646.6	10022.8
20°	16676.3	16561.2	16633.9	16949.0	17112.6	17524.7	17294.4	16003.7	14549.4	13725.3	10859.0
22.5°	18130.7	17961.0	17724.7	17773.1	17833.7	18124.6	18179.1	17439.9	15852.2	14979.6	11652.8
25°	19924.3	19766.8	19488.0	19203.2	19027.5	18973.0	19160.8	18567.0	17100.5	16197.6	12507.3
27.5°	21899.8	21633.2	21457.5	20869.7	20397.0	20324.3	20233.4	19912.2	18579.1	17603.5	13470.7
30°	23820.7	23608.7	23372.3	22433.1	21942.2	21863.5	21415.0	21505.9	20184.9	19100.2	14561.5
32.5°	25275.1	25293.3	24753.9	24045.0	23584.4	23166.3	23002.7	23263.3	22245.2	21372.6	15779.5
35°	26450.7	26505.2	25990.1	25347.8	24850.9	25141.8	25069.0	25190.2	24705.5	23639.0	17197.5
37.5°	27595.9	27323.3	26771.8	26462.8	26202.2	26680.9	27299.0	27402.0	27492.9	26238.6	18845.7
40°	27783.8	27808.0	27486.9	27705.0	27377.8	28098.9	29535.1	29401.7	29771.4	28674.6	20633.3
42.5°	27517.2	27571.7	27699.0	28008.0	28795.8	29662.3	31795.3	31250.0	31698.4	30722.8	22372.5
45°	27080.9	26856.7	27014.2	28189.8	29553.2	31480.2	33861.7	33437.5	33292.1	32474.0	24444.9
47.5°	24996.3	25226.6	25717.4	27165.7	29213.9	31795.3	35328.1	35231.2	35667.5	35091.8	26329.5
50°	22105.8	22014.9	22960.3	24590.3	27232.4	31177.2	35249.4	36128.0	37067.3	36267.4	27171.8
52.5°	16555.1	17039.9	17851.9	19875.9	23645.0	27808.0	33528.4	34994.9	35758.4	35588.7	26493.1
55°	10465.1	10610.6	11101.4	13507.1	16900.5	22317.9	28741.2	32140.7	33504.2	34140.4	25868.9
57.5°	5084.1	4811.4	5411.3	7344.4	9762.2	15009.9	22166.4	27995.9	30959.1	32110.4	24511.6
60°	2654.2	2757.2	2993.5	3684.3	5047.7	7792.8	13816.2	18657.9	23184.5	24953.9	18579.1
62.5°	2199.7	2236.0	2393.6	2739.0	3357.1	4484.2	7053.5	9095.6	11822.5	13416.2	10568.1
65°	1866.4	1884.6	2054.2	2284.5	2678.4	3157.1	3629.8	3799.4	4599.3	4720.5	3757.0
67.5°	1557.3	1575.5	1757.3	1975.5	2230.0	2357.2	2478.4	2466.3	2557.2	2520.8	2514.8
70°	1199.8	1218.0	1405.9	1636.1	1763.4	1690.7	2066.4	2151.2	2187.6	2217.9	2266.3
72.5°	866.5	902.9	1048.3	1211.9	1145.3	1315.0	1702.8	1830.0	1878.5	1896.7	1957.3
75°	630.2	642.3	678.7	630.2	727.2	915.0	1199.8	1357.4	1418.0	1436.2	1527.0
77.5°	278.7	284.8	290.9	363.6	466.6	569.6	715.0	842.3	927.1	951.4	975.6
80°	145.4	151.5	187.9	248.4	333.3	418.1	521.1	593.9	648.4	654.4	678.7
82.5°	90.9	97.0	133.3	175.7	236.3	309.0	381.8	442.4	484.8	490.8	496.9
85°	42.4	54.5	78.8	109.1	157.6	200.0	206.0	175.7	187.9	193.9	181.8
87.5°	12.1	18.2	24.2	18.2	24.2	24.2	30.3	36.4	36.4	36.4	42.4
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°	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2	6817.2
2.5°	6926.3	6871.7	6659.6	6580.9	6374.8	6411.2	6302.1	6296.0	6271.8	6265.7	6259.7
5°	7095.9	6926.3	6671.7	6477.8	6362.7	6350.6	6271.8	6271.8	6296.0	6314.2	6271.8
7.5°	7374.7	7180.8	6750.5	6568.7	6465.7	6447.5	6393.0	6350.6	6405.1	6386.9	6338.5
10°	7695.8	7356.5	6902.0	6744.5	6574.8	6532.4	6532.4	6550.6	6459.7	6490.0	6441.5
12.5°	8053.4	7598.9	7095.9	6914.1	6714.2	6689.9	6677.8	6544.5	6593.0	6568.7	6447.5
15°	8507.8	7877.6	7344.4	7035.3	6865.7	6756.6	6599.0	6574.8	6544.5	6483.9	6429.4
17.5°	8998.7	8180.6	7459.5	7071.7	6817.2	6738.4	6617.2	6490.0	6399.1	6411.2	6368.8
20°	9416.8	8459.4	7501.9	7108.0	6780.8	6629.3	6441.5	6362.7	6265.7	6259.7	6253.6
22.5°	9913.7	8835.1	7562.5	7011.1	6671.7	6514.2	6386.9	6247.6	6180.9	6096.1	6138.5
25°	10507.5	8980.5	7574.6	6956.6	6593.0	6314.2	6247.6	6096.1	6071.8	5950.6	5974.9
27.5°	10937.8	9059.3	7477.7	6786.9	6411.2	6199.1	6077.9	5968.8	5926.4	5835.5	5811.3
30°	11513.5	9180.5	7271.7	6574.8	6229.4	5993.1	5920.3	5896.1	5774.9	5678.0	5665.8
32.5°	12167.9	9259.2	7138.3	6356.6	6041.5	5859.7	5896.1	5781.0	5629.5	5544.6	5520.4
35°	12689.0	9289.5	6805.1	6108.2	5914.3	5799.1	5756.7	5732.5	5514.3	5435.6	5375.0
37.5°	13482.9	9222.9	6526.3	5932.5	5774.9	5732.5	5696.1	5532.5	5284.1	5168.9	5084.1
40°	14410.0	9204.7	6168.8	5684.0	5641.6	5690.1	5581.0	5326.5	4981.1	4853.8	4793.2
42.5°	15300.8	9332.0	5944.6	5550.7	5496.2	5514.3	5362.8	4981.1	4811.4	4738.7	4641.7
45°	16791.5	9598.6	5574.9	5344.7	5320.4	5308.3	5126.5	4726.6	4629.6	4538.7	4520.5
47.5°	18136.7	9422.9	5338.6	5132.6	5156.8	5090.2	4702.3	4575.1	4466.0	4375.1	4344.8
50°	18215.5	9004.7	5005.3	4969.0	4975.0	4859.9	4490.2	4405.4	4266.0	4205.4	4163.0
52.5°	17803.4	8320.0	4696.3	4708.4	4726.6	4538.7	4229.7	4169.1	4054.0	3969.1	3944.9
55°	16646.0	7253.5	4393.3	4441.8	4490.2	4132.7	4035.8	3884.3	3793.4	3672.2	3678.2
57.5°	14664.5	5841.6	3969.1	4047.9	4150.9	3757.0	3684.3	3496.5	3363.1	3266.2	3254.1
60°	9828.9	4157.0	3332.8	3363.1	3593.4	3435.9	3429.8	3241.9	3060.2	2975.3	2926.8
62.5°	5799.1	3175.3	2878.4	2848.1	2842.0	2932.9	3084.4	3017.7	2781.4	2617.8	2666.3
65°	3035.9	2745.1	2678.4	2575.4	2514.8	2490.5	2605.7	2636.0	2478.4	2302.7	2290.6
67.5°	2551.1	2551.1	2496.6	2460.2	2375.4	2272.4	2199.7	2102.7	2078.5	2030.0	1969.4
70°	2320.9	2381.5	2363.3	2278.5	2205.7	2090.6	1902.8	1745.2	1593.7	1539.2	1575.5
72.5°	2023.9	2084.5	2084.5	2042.1	1945.2	1769.4	1587.6	1405.9	1278.6	1181.6	1169.5
75°	1557.3	1587.6	1660.4	1611.9	1484.6	1375.6	1187.7	999.9	878.7	787.8	769.6
77.5°	993.8	1042.3	1042.3	1036.2	945.3	842.3	721.1	587.8	496.9	430.2	412.1
80°	660.5	690.8	715.0	690.8	630.2	551.4	460.5	369.6	303.0	248.4	236.3
82.5°	484.8	521.1	539.3	515.1	454.5	393.9	327.2	260.6	193.9	151.5	139.4
85°	187.9	193.9	218.1	260.6	254.5	248.4	200.0	145.4	109.1	78.8	72.7
87.5°	48.5	42.4	48.5	48.5	42.4	36.4	36.4	36.4	36.4	18.2	24.2
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)