

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: P943652

Luminaire Tested: **GALN-SB8B-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41865 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 292.8
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



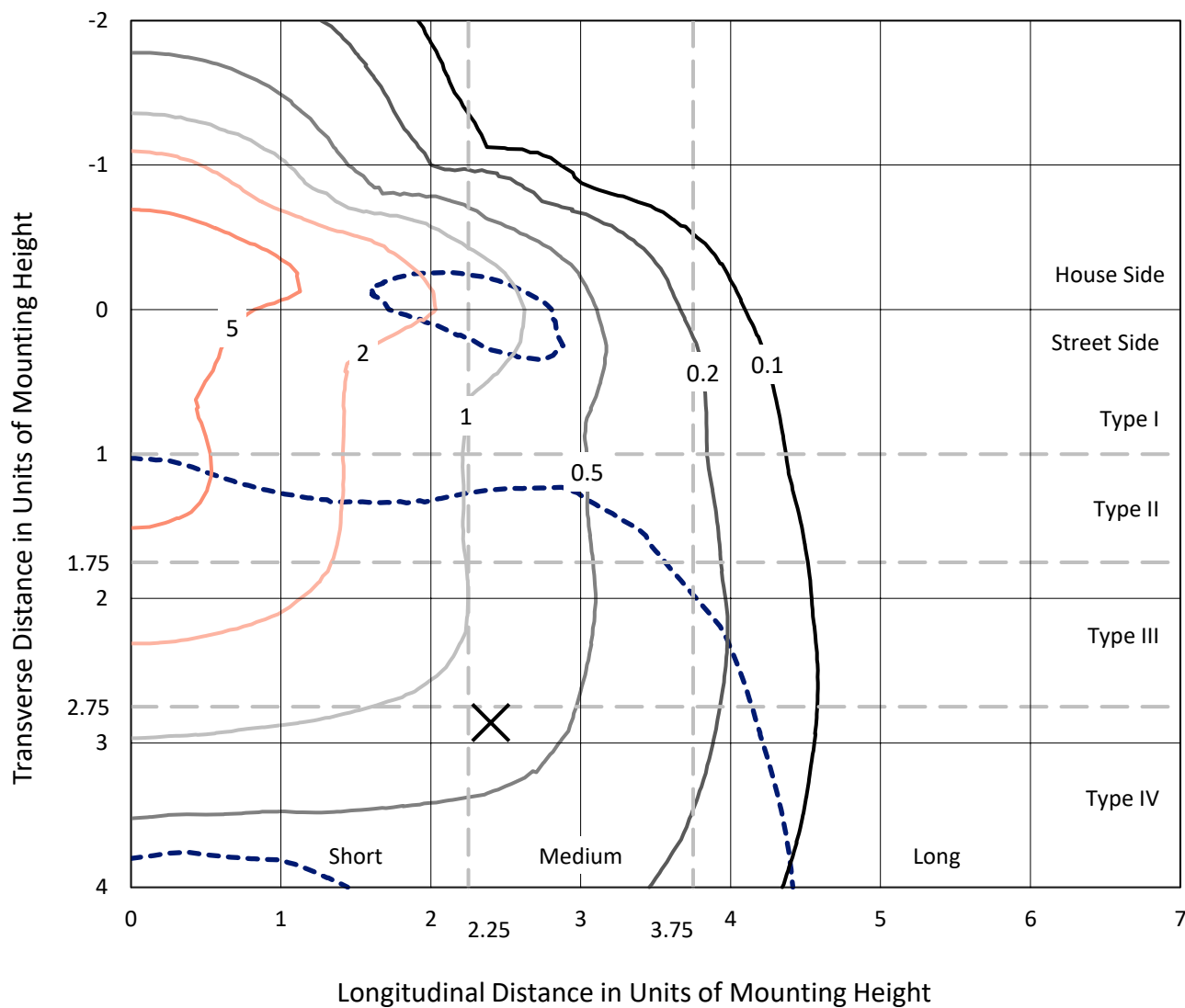
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Iso-Footcandle Lines of Horizontal Illumination

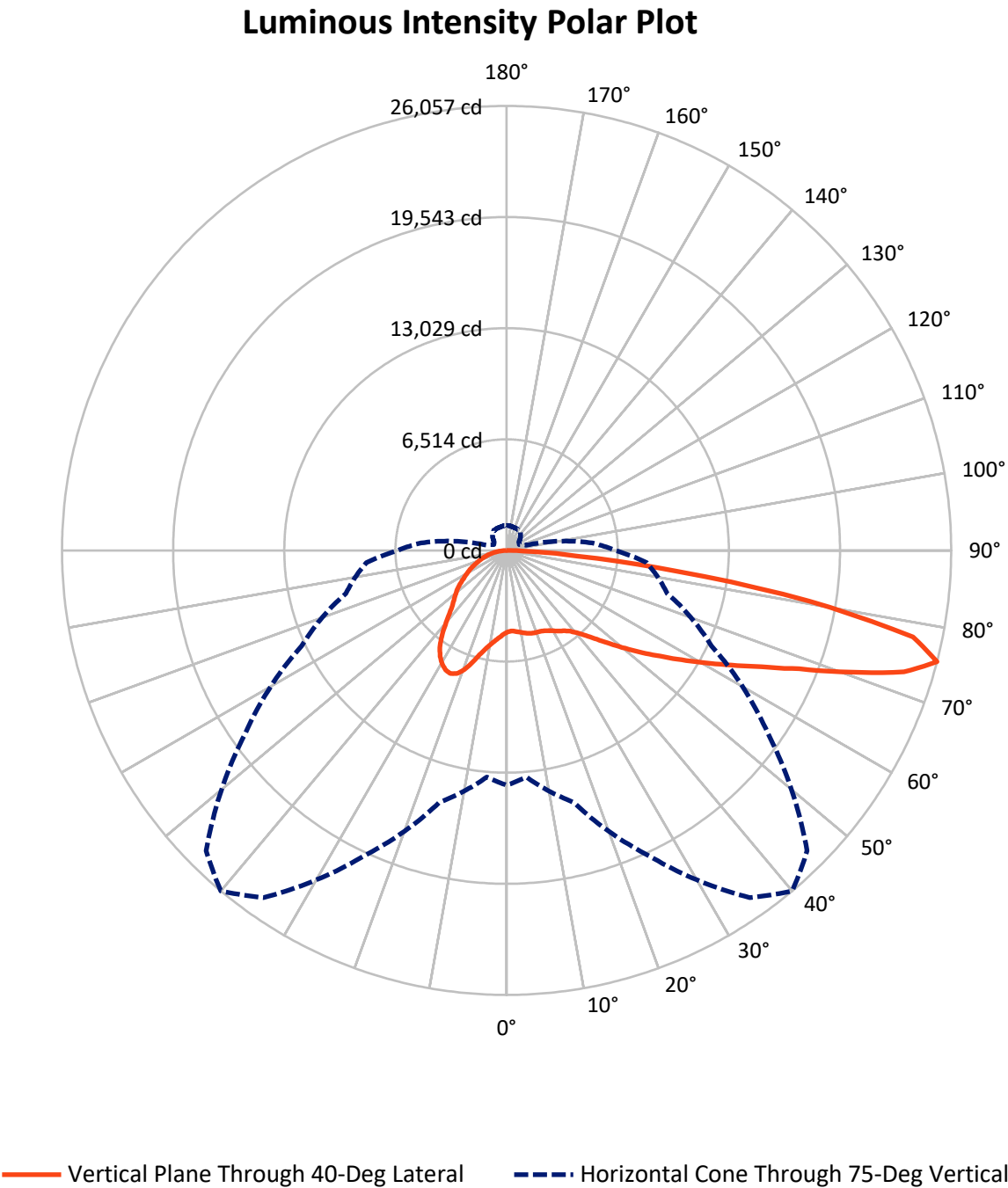
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type IV - Medium - N/A

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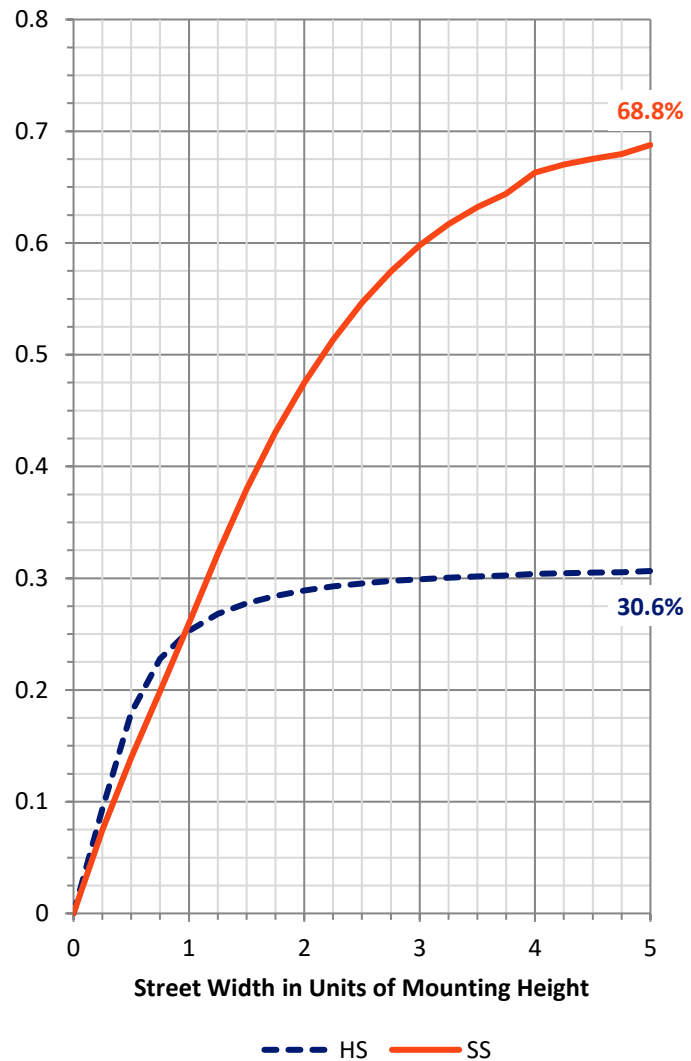
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12971.2	0.0	12971.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	28893.8	0.0	28893.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	41865.0	0.0	41865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.9	1.1
10°-20°	1604.4	3.8
20°-30°	2929.5	7.0
30°-40°	4154.9	9.9
40°-50°	5610.3	13.4
50°-60°	7547.4	18.0
60°-70°	9579.4	22.9
70°-80°	8693.9	20.8
80°-90°	1267.3	3.0
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°	41865.0	100.0
0°-180°	41865.0	100.0

Coefficient of Utilization



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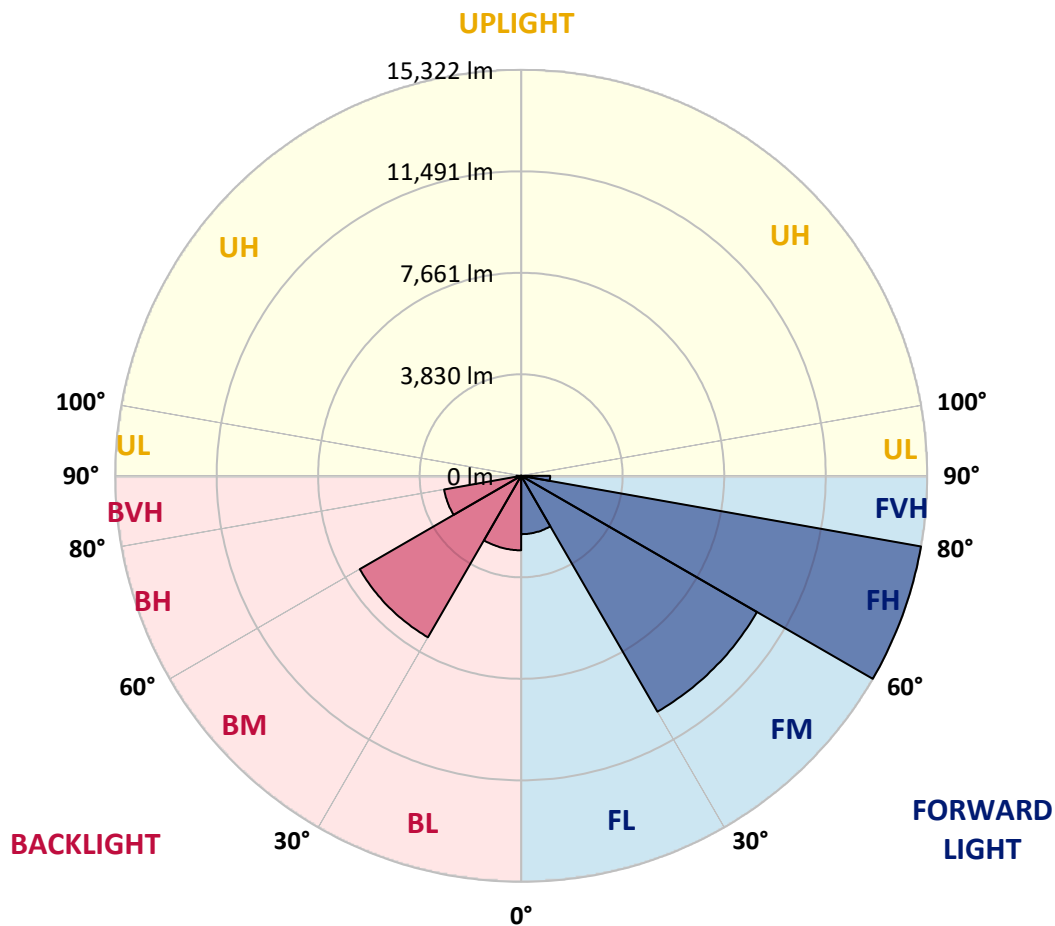
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2202.1	5.3			
FM	(30°-60°)	10276.9	24.5			
FH	(60°-80°)	15321.9	36.6			G5
FVH	(80°-90°)	1092.8	2.6			G5
BL	(0°-30°)	2809.7	6.7	B4/5000		
BM	(30°-60°)	7035.7	16.8	B4/8500		
BH	(60°-80°)	2951.3	7.0	B4/5000		G4/5000
BVH	(80°-90°)	174.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3
2.5°	4714.0	4740.7	4734.0	4725.1	4725.1	4727.4	4725.1	4740.7	4756.2	4771.8	4796.2
5°	4762.9	4789.5	4776.2	4765.1	4756.2	4754.0	4747.4	4745.1	4754.0	4774.0	4807.3
7.5°	4858.4	4885.0	4865.0	4845.1	4827.3	4818.4	4809.5	4796.2	4789.5	4800.6	4847.3
10°	4965.0	4991.6	4967.2	4931.6	4902.8	4891.7	4882.8	4869.5	4860.6	4867.3	4918.3
12.5°	5071.5	5098.2	5064.9	5016.0	4978.3	4971.6	4960.5	4956.1	4953.9	4951.6	5002.7
15°	5171.5	5193.7	5151.5	5093.7	5053.8	5042.7	5031.6	5038.2	5049.3	5062.7	5120.4
17.5°	5249.2	5271.4	5209.2	5133.7	5096.0	5091.5	5084.9	5107.1	5138.2	5171.5	5242.5
20°	5320.2	5342.4	5262.5	5160.4	5115.9	5115.9	5118.2	5164.8	5209.2	5258.1	5355.8
22.5°	5420.2	5437.9	5340.2	5200.3	5135.9	5140.4	5158.1	5204.8	5260.3	5326.9	5462.3
25°	5568.9	5582.2	5462.3	5275.8	5202.5	5215.9	5231.4	5253.6	5306.9	5384.6	5566.7
27.5°	5808.7	5819.8	5662.2	5409.0	5298.0	5320.2	5342.4	5326.9	5351.3	5417.9	5651.1
30°	6146.2	6152.9	5953.1	5617.8	5460.1	5471.2	5475.7	5411.3	5364.6	5417.9	5711.0
32.5°	6545.9	6543.7	6306.1	5870.9	5644.4	5633.3	5595.6	5469.0	5360.2	5406.8	5764.3
35°	7165.4	7141.0	6834.6	6226.2	5853.1	5784.3	5695.5	5533.4	5382.4	5395.7	5811.0
37.5°	8191.3	8115.8	7691.7	6807.9	6164.0	5988.6	5857.6	5637.8	5431.3	5391.3	5866.5
40°	9348.1	9252.7	8786.4	7605.1	6630.3	6348.3	6137.4	5786.5	5511.2	5411.3	5948.6
42.5°	10720.4	10584.9	10083.1	8544.3	7220.9	6812.4	6494.9	5975.3	5628.9	5475.7	6059.6
45°	12405.7	12225.9	11515.3	9603.5	7964.8	7420.8	6996.7	6261.7	5808.7	5600.0	6226.2
47.5°	14108.8	14153.2	13142.9	10815.9	8857.4	8171.3	7625.1	6692.5	6070.7	5799.8	6494.9
50°	15918.5	15949.6	14761.6	12159.3	9870.0	9019.5	8331.2	7174.3	6434.9	6084.1	6896.8
52.5°	17330.7	17335.2	16231.6	13564.8	10924.7	9952.1	9092.8	7725.0	6856.8	6461.5	7431.9
55°	18214.5	18203.4	17261.9	14894.9	12137.1	10931.3	9936.6	8351.2	7371.9	6905.6	8104.7
57.5°	18856.2	18822.9	17972.4	16038.4	13429.4	12088.2	10891.4	9061.7	7980.3	7434.1	8990.7
60°	19100.4	19080.4	18454.3	17026.5	14788.3	13367.2	11992.7	9856.6	8670.9	8058.1	10129.8
62.5°	19193.7	19231.4	18927.2	17983.5	16242.7	14783.8	13202.9	10807.0	9448.1	8764.2	11331.0
65°	19522.3	19591.1	19529.0	19235.9	17885.8	16442.5	14808.3	11937.2	10296.3	9521.3	12585.6
67.5°	20172.9	20241.7	20268.4	20734.7	19893.1	18509.8	16811.1	13345.0	11288.8	10307.4	13529.3
70°	20157.4	20137.4	20608.1	21927.1	22406.7	21372.0	19511.2	15076.9	12472.3	10960.2	13649.2
72.5°	18347.7	18187.8	19300.3	21913.8	24498.4	24360.7	22808.6	17310.7	13493.8	11040.1	11844.0
75°	13764.7	13338.3	15303.4	19748.8	24847.0	26057.1	24904.7	18696.3	13251.7	9754.5	8242.4
77.5°	5886.4	5457.9	7773.8	14619.5	22237.9	24358.5	22981.8	16311.5	10578.3	6450.4	4047.9
80°	1541.0	1538.8	2349.3	6628.1	15123.6	17988.0	15780.8	10533.9	6044.1	2304.8	1116.9
82.5°	637.3	621.7	863.8	2578.0	7389.7	10094.2	8237.9	4698.5	2182.7	624.0	370.8
85°	237.6	235.4	419.7	890.4	2606.8	4163.4	3013.2	1201.3	544.0	304.2	166.5
87.5°	66.6	64.4	91.0	308.6	635.1	963.7	515.1	197.6	153.2	119.9	48.9
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°	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3	4787.3
2.5°	4802.9	4814.0	4833.9	4849.5	4869.5	4891.7	4922.8	4942.8	4962.7	4976.1	4967.2
5°	4822.8	4847.3	4898.3	4949.4	5009.4	5064.9	5129.3	5175.9	5213.6	5224.7	5229.2
7.5°	4867.3	4907.2	4993.8	5080.4	5175.9	5266.9	5360.2	5440.1	5504.5	5529.0	5531.2
10°	4945.0	4998.3	5120.4	5242.5	5369.1	5509.0	5628.9	5744.3	5835.4	5873.1	5875.3
12.5°	5042.7	5109.3	5269.2	5437.9	5613.3	5806.5	5961.9	6104.1	6217.3	6268.4	6268.4
15°	5169.2	5255.8	5460.1	5686.6	5944.2	6212.9	6410.5	6568.1	6694.7	6756.9	6752.4
17.5°	5306.9	5422.4	5679.9	6021.9	6390.5	6743.5	6974.5	7089.9	7220.9	7280.9	7278.7
20°	5440.1	5582.2	5950.8	6448.2	6938.9	7314.2	7500.7	7531.8	7540.7	7547.4	7565.1
22.5°	5577.8	5768.8	6290.6	6985.6	7511.8	7771.6	7798.3	7665.0	7478.5	7391.9	7416.3
25°	5728.8	5981.9	6734.7	7578.4	8004.8	8035.9	7831.6	7507.4	7154.3	6992.2	7016.7
27.5°	5875.3	6228.4	7267.6	8144.7	8360.0	8086.9	7647.3	7187.6	6761.3	6590.3	6610.3
30°	6021.9	6510.4	7856.0	8639.8	8522.1	7960.4	7356.4	6843.5	6414.9	6235.1	6255.0
32.5°	6170.7	6839.0	8533.2	8997.3	8493.3	7691.7	6994.5	6457.1	6079.6	5890.9	5915.3
35°	6339.4	7243.2	9175.0	9192.7	8300.1	7296.4	6517.1	5995.3	5666.6	5515.6	5548.9
37.5°	6559.2	7756.1	9741.2	9241.6	7962.6	6716.9	5924.2	5449.0	5178.1	5109.3	5158.1
40°	6832.4	8373.4	10174.2	9163.9	7463.0	6013.0	5275.8	4896.1	4742.9	4758.5	4811.7
42.5°	7187.6	9063.9	10478.4	8964.0	6768.0	5286.9	4707.4	4538.6	4611.9	4674.1	4731.8
45°	7649.5	9781.1	10667.1	8624.3	5981.9	4671.9	4372.1	4412.1	4467.6	4474.2	4518.6
47.5°	8240.1	10507.2	10791.5	8111.4	5180.3	4238.9	4158.9	4167.8	4156.7	4110.1	4145.6
50°	8977.3	11213.3	10902.5	7431.9	4498.7	3968.0	3861.4	3830.3	3677.1	3526.1	3546.1
52.5°	9816.7	11861.7	10949.1	6588.1	3968.0	3741.5	3568.3	3372.9	3086.4	3039.8	3055.4
55°	10749.3	12461.2	10829.2	5551.2	3521.7	3450.6	3188.6	2953.2	2922.1	2882.2	2888.8
57.5°	11863.9	13107.4	10584.9	4394.3	3064.2	3110.9	2855.5	2882.2	2826.6	2764.5	2753.4
60°	13083.0	13775.8	10156.4	3339.6	2591.3	2686.8	2768.9	2766.7	2751.2	2700.1	2682.3
62.5°	14179.9	14215.4	9312.6	2558.0	2176.1	2358.1	2582.4	2580.2	2566.9	2538.0	2526.9
65°	14832.7	14148.8	7904.8	2014.0	1834.1	2087.2	2329.3	2347.0	2349.3	2347.0	2347.0
67.5°	14717.2	13369.4	5973.0	1603.2	1552.1	1811.9	2078.4	2102.8	2120.5	2125.0	2129.4
70°	13411.6	11657.4	3894.7	1279.0	1301.2	1569.9	1840.8	1865.2	1880.7	1898.5	1907.4
72.5°	10453.9	8571.0	2229.3	1034.7	1081.4	1361.1	1605.4	1634.3	1643.1	1676.4	1689.8
75°	6370.5	5040.5	1203.5	814.9	888.2	1163.5	1372.2	1405.6	1421.1	1461.1	1465.5
77.5°	3028.7	2182.7	686.1	635.1	715.0	950.4	1159.1	1196.8	1154.6	1176.8	1159.1
80°	1023.6	810.5	433.0	484.1	546.2	741.6	928.2	965.9	877.1	872.6	863.8
82.5°	357.5	328.6	275.3	322.0	353.1	530.7	701.7	750.5	652.8	650.6	619.5
85°	139.9	133.2	153.2	175.4	210.9	326.4	461.9	486.3	401.9	324.2	319.7
87.5°	28.9	31.1	37.7	40.0	64.4	113.2	166.5	204.3	162.1	137.7	126.6
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)