

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: P953101

Luminaire Tested: **GALN-SB6D-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63349 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



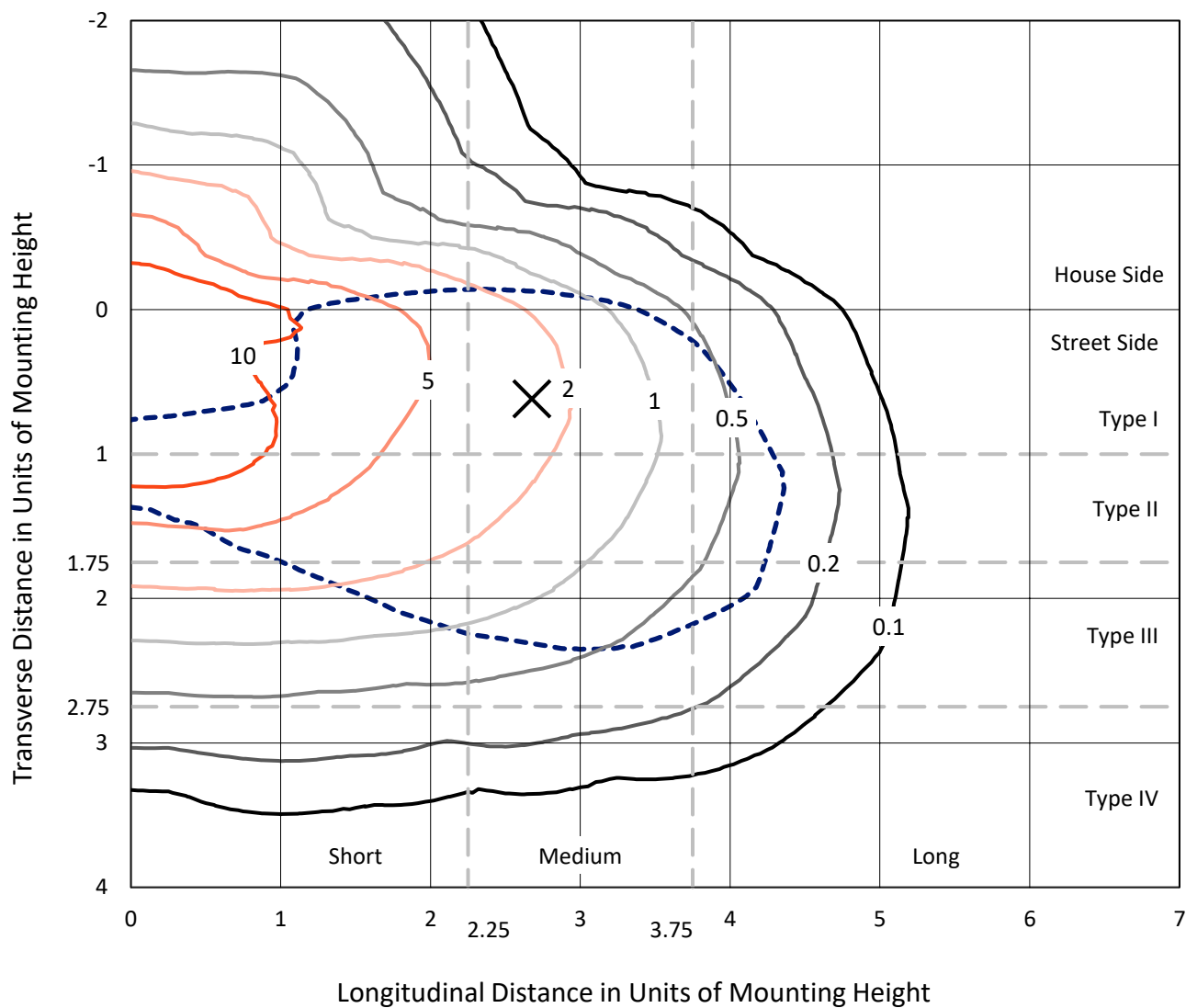
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

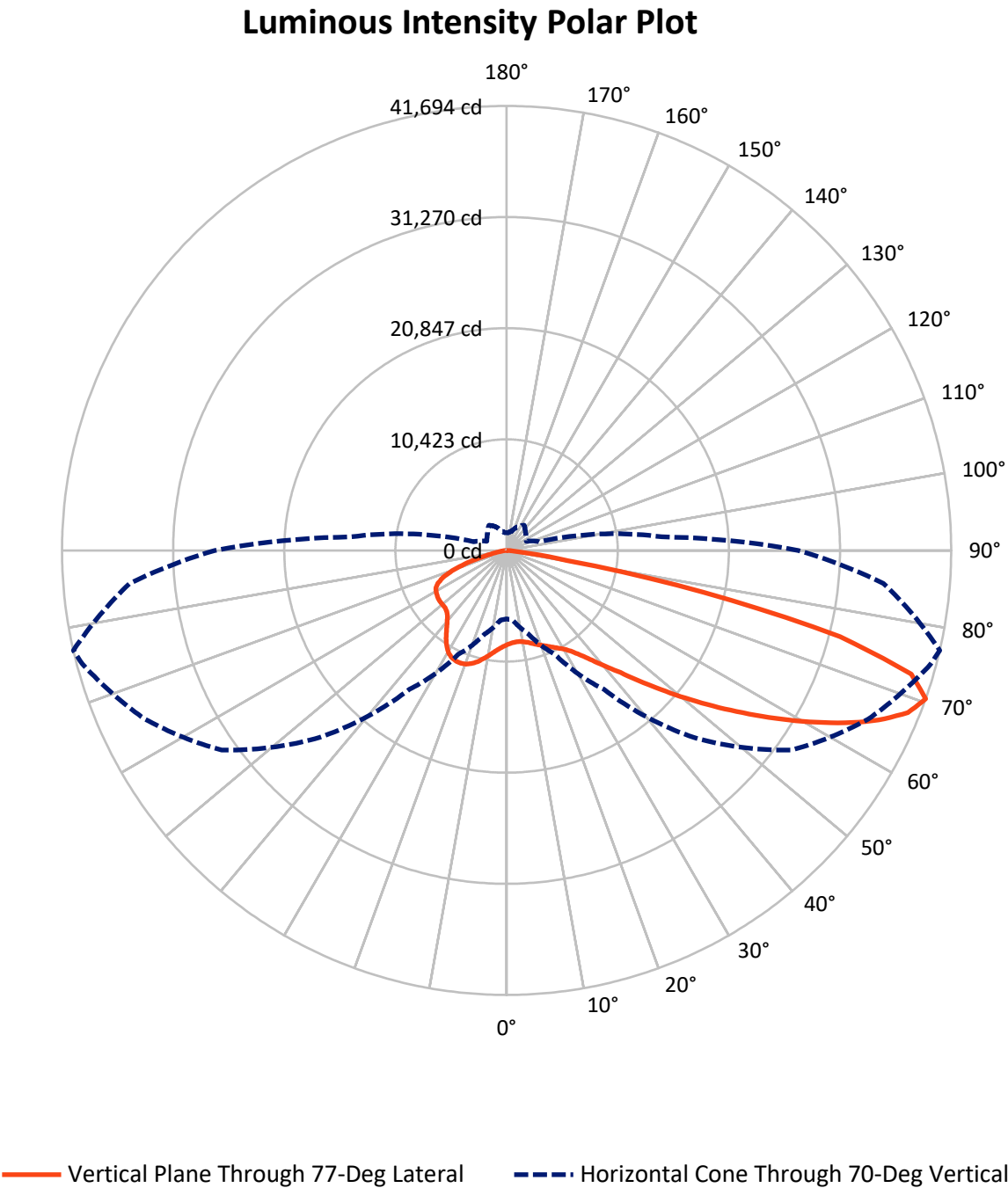
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc

Type III - Medium - N/A

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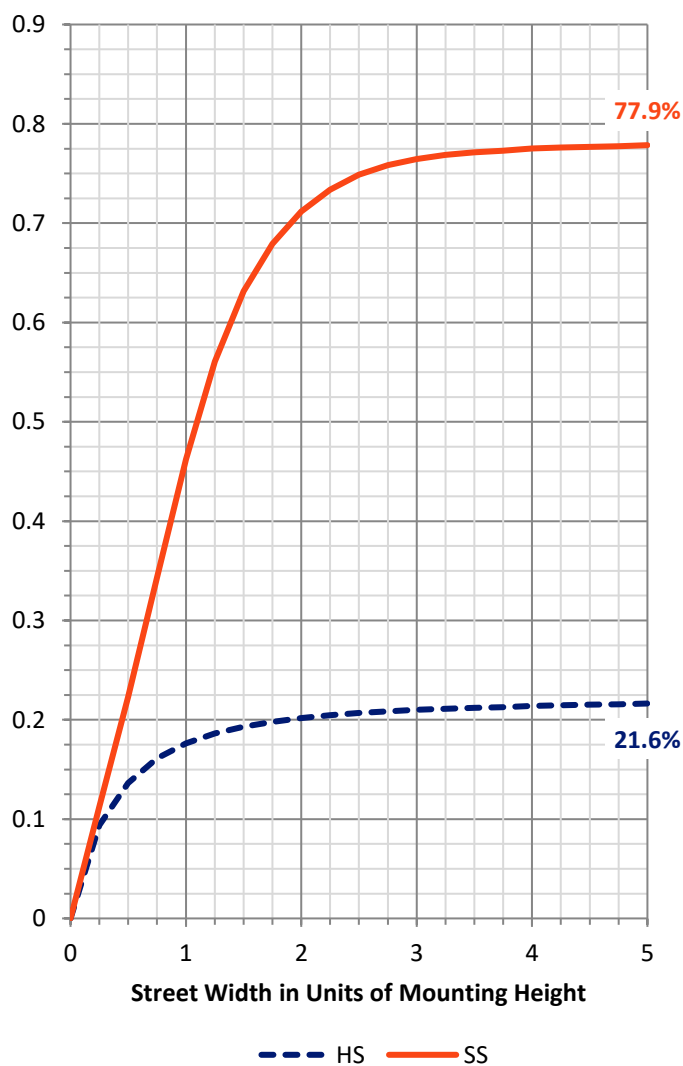
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13872.4	0.0	13872.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	49476.6	0.0	49476.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	63349.0	0.0	63349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.9	1.3
10°-20°	2432.6	3.8
20°-30°	4160.2	6.6
30°-40°	6690.0	10.6
40°-50°	10444.8	16.5
50°-60°	13951.8	22.0
60°-70°	14870.4	23.5
70°-80°	9154.2	14.5
80°-90°	802.2	1.3
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°	63349.0	100.0
0°-180°	63349.0	100.0

Coefficient of Utilization



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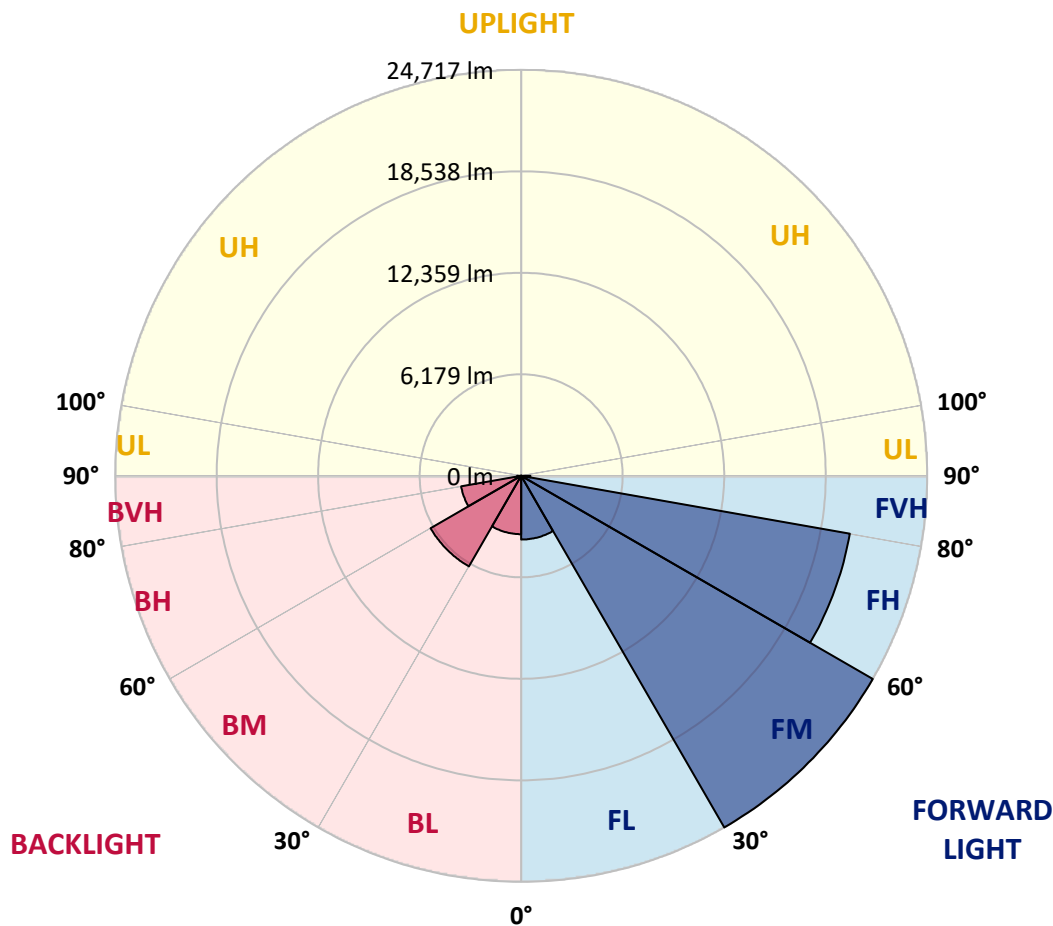
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3881.1	6.1			
FM	(30°-60°)	24717.4	39.0			
FH	(60°-80°)	20317.1	32.1			G5
FVH	(80°-90°)	560.9	0.9			G4/750
BL	(0°-30°)	3554.6	5.6	B4/5000		
BM	(30°-60°)	6369.1	10.1	B4/8500		
BH	(60°-80°)	3707.5	5.9	B4/5000		G4/5000
BVH	(80°-90°)	241.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8
2.5°	8146.7	8143.5	8185.6	8198.6	8276.5	8331.6	8435.5	8545.8	8688.5	8704.7	8792.3
5°	7676.3	7676.3	7724.9	7776.8	7877.4	7987.7	8146.7	8338.1	8584.7	8623.6	8841.0
7.5°	7277.2	7303.2	7345.3	7445.9	7562.7	7721.7	7965.0	8237.5	8562.0	8623.6	8974.0
10°	6956.0	6985.2	7037.1	7118.2	7293.4	7514.0	7832.0	8182.4	8617.1	8714.5	9168.7
12.5°	6855.4	6884.6	6913.8	6975.5	7137.7	7397.2	7776.8	8208.3	8750.2	8847.5	9434.7
15°	7089.0	7124.7	7102.0	7085.8	7170.1	7407.0	7802.8	8302.4	8915.6	9055.1	9762.4
17.5°	7627.6	7640.6	7588.7	7436.2	7423.2	7549.7	7926.1	8432.2	9123.3	9275.8	10093.3
20°	8497.1	8474.4	8367.3	8065.6	7893.6	7867.7	8137.0	8626.9	9337.4	9499.6	10450.2
22.5°	9678.1	9652.1	9438.0	8961.1	8578.2	8325.1	8441.9	8879.9	9577.5	9759.2	10797.4
25°	11151.0	11115.3	10800.6	10151.7	9558.0	8931.9	8857.2	9214.1	9872.7	10041.4	11160.8
27.5°	12870.6	12841.4	12500.7	11644.2	10787.7	9762.4	9373.1	9606.7	10180.9	10372.4	11569.6
30°	14719.9	14804.2	14200.8	13279.4	12195.7	10846.1	10067.4	10090.1	10580.0	10752.0	12065.9
32.5°	16893.6	17039.6	16312.9	15144.9	13665.4	12023.8	10943.4	10764.9	11160.8	11303.5	12692.1
35°	19047.9	19213.4	18609.9	17318.6	15615.3	13412.4	11858.3	11540.4	11932.9	12088.7	13522.7
37.5°	20910.2	21130.8	20819.4	19696.8	17701.5	15086.5	13052.2	12452.0	12883.5	13078.2	14638.8
40°	22379.9	22717.3	22694.6	21993.8	20160.7	17117.5	14567.4	13577.8	14064.5	14275.4	15991.7
42.5°	23573.9	23865.9	24118.9	24083.2	22727.1	19424.3	16348.6	15041.1	15410.9	15654.3	17513.3
45°	24397.9	24709.4	25254.5	25841.7	25196.1	21893.3	18389.3	16776.8	17114.2	17480.9	19326.9
47.5°	25134.4	25488.1	26195.3	27126.5	27291.9	24372.0	20624.7	18798.1	19106.3	19485.9	21147.0
50°	25199.3	25504.3	26600.9	27921.4	28781.1	26753.4	23025.6	21065.9	21354.7	21760.2	23096.9
52.5°	23632.3	24112.4	26026.6	27898.7	29465.7	28745.4	25410.2	23424.6	23749.1	24235.7	25115.0
55°	18343.9	19047.9	24342.8	27029.2	29222.4	30033.5	27678.0	25932.5	26347.8	26857.2	27145.9
57.5°	15800.3	16108.5	19323.7	25445.9	28112.8	30367.6	29592.2	28466.4	29134.8	29692.8	29293.7
60°	14200.8	14457.1	16358.3	22983.4	26652.8	29838.8	31071.7	30828.4	31983.4	32648.5	31490.2
62.5°	12487.7	12731.1	14460.3	19190.7	24784.0	28959.6	32006.1	33008.6	34903.3	35630.1	33560.1
65°	10787.7	10995.3	12653.2	16124.7	22409.1	28080.3	32489.5	34893.6	37605.9	38358.6	35279.7
67.5°	8892.9	9064.9	10631.9	13603.8	19521.6	26876.7	32729.6	36376.3	39958.1	40603.7	36129.7
70°	6417.4	6550.5	8169.4	10758.5	15897.6	24806.7	32632.2	37427.5	41178.0	41693.9	35487.3
72.5°	3033.5	3153.6	5054.8	6985.2	11228.9	20777.2	30662.9	36593.7	39938.6	39682.3	31555.1
75°	1619.0	1722.8	2903.7	3831.6	5930.8	14242.9	25092.2	31522.7	33537.4	32291.6	23320.8
77.5°	1096.6	1177.7	1797.4	2300.3	2709.1	6761.3	16127.9	21825.1	20997.8	18940.8	11679.9
80°	869.5	953.9	1473.0	1557.3	1310.7	2443.0	6664.0	10103.1	7257.7	5804.2	3322.3
82.5°	668.3	762.4	1239.4	1129.1	713.8	1002.5	1940.2	3195.7	1859.0	1414.6	804.6
85°	408.8	509.4	973.3	720.3	402.3	457.5	658.6	889.0	567.8	473.7	288.8
87.5°	207.6	292.0	493.1	262.8	181.7	107.1	175.2	175.2	149.2	129.8	74.6
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°	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8	8837.8
2.5°	8870.2	8935.1	9045.4	9149.2	9230.3	9308.2	9386.1	9428.2	9441.2	9493.1	9522.3
5°	8974.0	9094.1	9308.2	9509.4	9635.9	9713.8	9768.9	9801.4	9807.8	9824.1	9850.0
7.5°	9165.4	9356.9	9655.4	9856.5	9950.6	9944.1	9921.4	9840.3	9807.8	9778.6	9785.1
10°	9434.7	9687.8	10054.4	10193.9	10135.5	9979.8	9778.6	9541.8	9431.5	9324.4	9292.0
12.5°	9768.9	10090.1	10450.2	10443.7	10155.0	9755.9	9288.7	8925.4	8695.0	8529.5	8490.6
15°	10174.5	10544.3	10820.1	10599.5	9966.8	9249.8	8565.2	8091.5	7883.9	7702.2	7682.8
17.5°	10593.0	10988.8	11115.3	10550.8	9493.1	8500.3	7724.9	7351.8	7147.4	7050.1	7079.3
20°	11001.8	11394.4	11290.5	10271.8	8772.9	7650.3	6959.3	6754.9	6712.7	6735.4	6725.7
22.5°	11433.3	11783.7	11326.2	9733.2	7854.7	6780.8	6401.2	6407.7	6501.8	6569.9	6586.1
25°	11874.5	12111.4	11232.1	8954.6	6868.4	6141.7	6047.6	6151.4	6336.3	6469.3	6505.0
27.5°	12299.5	12403.4	11027.7	7991.0	6021.6	5684.2	5700.4	5914.6	6193.6	6378.5	6423.9
30°	12779.7	12662.9	10635.2	6907.3	5434.4	5291.6	5427.9	5677.7	5956.7	6122.2	6161.1
32.5°	13321.5	12886.8	10012.2	5904.8	5019.1	4976.9	5200.8	5363.0	5486.3	5535.0	5560.9
35°	13996.4	13201.5	9214.1	5200.8	4646.0	4746.6	4960.7	4879.6	4830.9	4805.0	4830.9
37.5°	14872.4	13626.5	8279.7	4743.3	4344.3	4581.1	4668.7	4415.6	4224.2	4130.1	4152.8
40°	15926.8	14249.4	7381.0	4389.7	4152.8	4438.3	4285.9	3980.9	3737.6	3604.5	3614.3
42.5°	17098.0	14901.6	6625.1	4123.6	4045.8	4321.5	4003.6	3640.2	3247.7	3205.5	3247.7
45°	18327.7	15573.2	6109.2	3919.2	3993.9	4221.0	3841.4	3254.1	2975.1	3147.1	3237.9
47.5°	19557.3	16189.6	5797.8	3766.8	3967.9	4107.4	3698.6	3040.0	2842.1	3091.9	3208.7
50°	20926.4	16741.1	5658.2	3656.4	3938.7	4062.0	3484.5	2984.9	2702.6	2868.1	2991.3
52.5°	22285.8	17169.4	5554.4	3546.1	3896.5	4026.3	3380.7	2920.0	2533.9	2543.6	2611.7
55°	23642.0	17448.4	5440.9	3400.1	3802.4	3948.4	3370.9	2848.6	2407.3	2361.9	2394.4
57.5°	25089.0	17607.4	5301.4	3237.9	3640.2	3750.5	3361.2	2793.4	2368.4	2293.8	2303.5
60°	26562.0	17841.0	5119.7	3040.0	3422.8	3513.7	3338.5	2774.0	2345.7	2219.2	2228.9
62.5°	27882.4	17922.1	4902.3	2851.8	3143.8	3280.1	3289.8	2757.7	2284.1	2066.7	2066.7
65°	28748.7	17571.7	4522.7	2637.7	2842.1	3040.0	3195.7	2702.6	2173.8	1956.4	1956.4
67.5°	28713.0	16572.4	3929.0	2361.9	2550.1	2774.0	3059.5	2608.5	2040.7	1820.1	1829.8
70°	27376.3	14599.8	3176.3	2040.7	2228.9	2488.5	2884.3	2469.0	1881.8	1670.9	1690.3
72.5°	23479.8	11426.8	2306.8	1664.4	1855.8	2193.2	2657.2	2300.3	1719.5	1537.8	1528.1
75°	16773.6	7231.8	1563.8	1278.3	1443.8	1859.0	2374.9	2102.4	1570.3	1544.3	1456.7
77.5°	8568.5	3455.3	1035.0	934.4	1005.8	1466.5	1995.3	1878.5	1593.0	1275.1	1135.5
80°	2786.9	1275.1	652.1	635.9	668.3	976.6	1544.3	1541.1	1206.9	866.3	765.7
82.5°	889.0	548.3	425.0	408.8	392.6	613.2	1077.1	1219.9	814.3	548.3	545.1
85°	353.6	327.7	249.8	230.4	165.5	288.8	564.5	811.1	606.7	395.8	405.6
87.5°	129.8	129.8	68.1	48.7	35.7	97.3	152.5	243.3	347.2	204.4	201.2
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)