

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: P954135

Luminaire Tested: **GALN-SB7C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42120 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

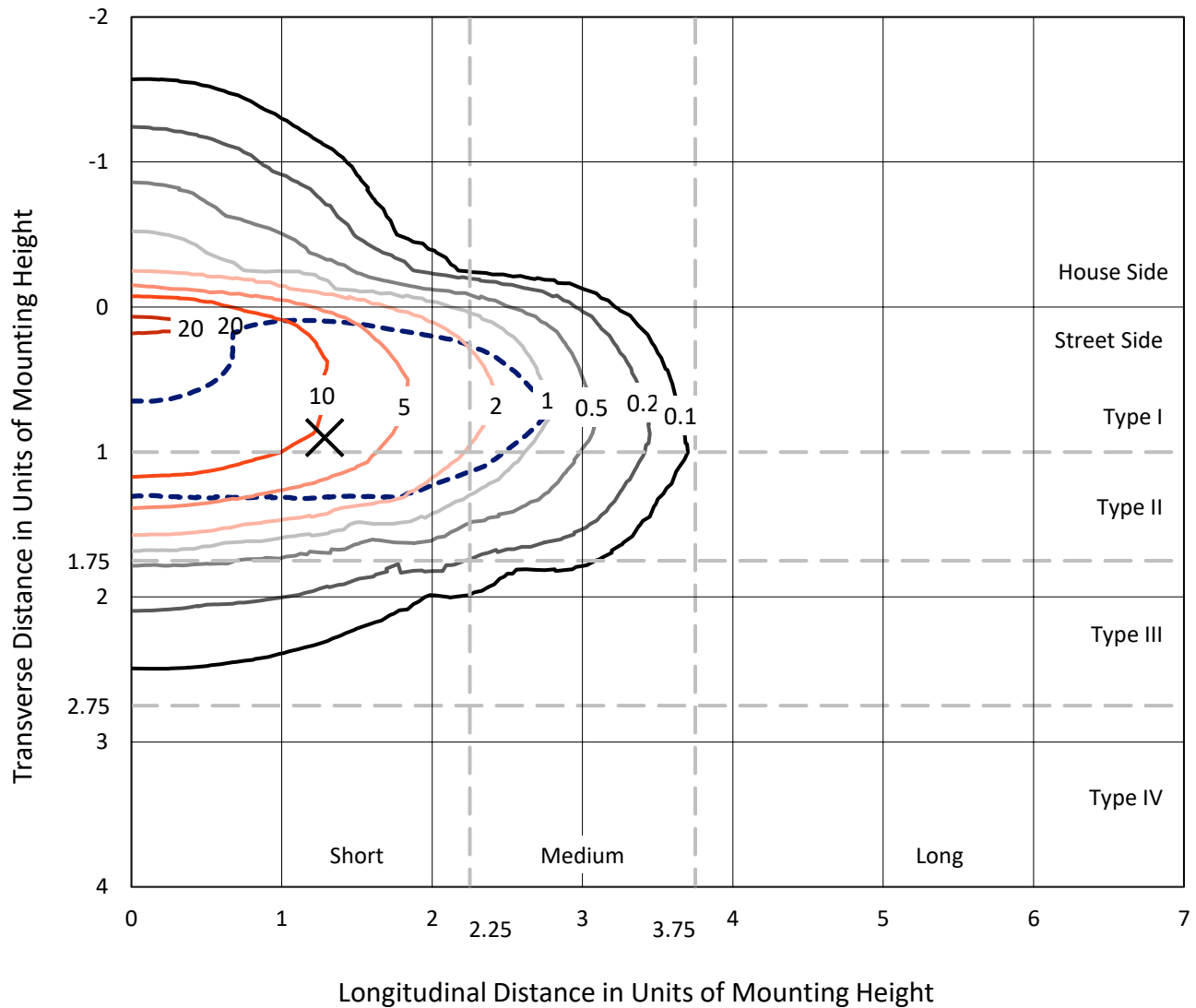
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

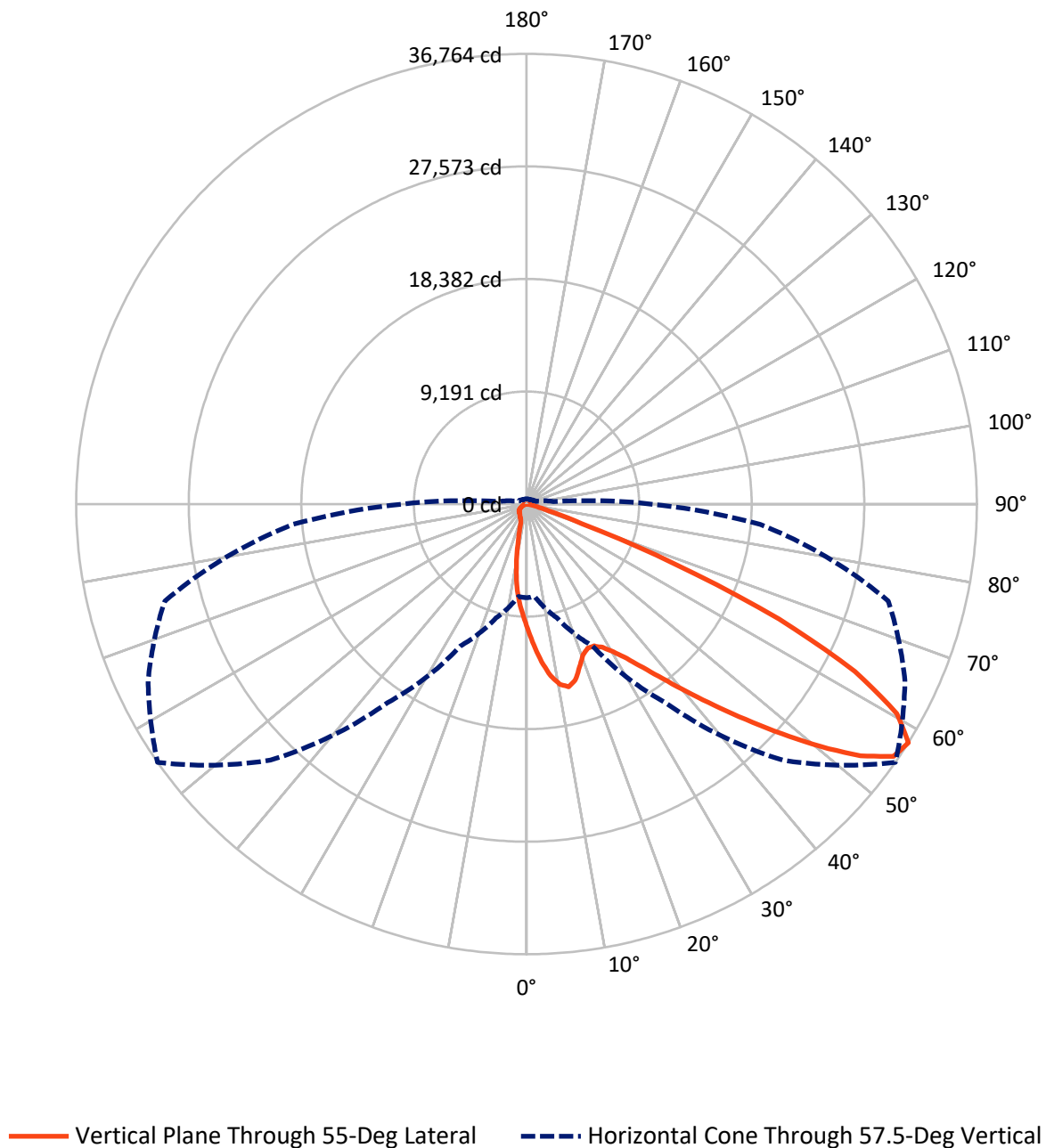


Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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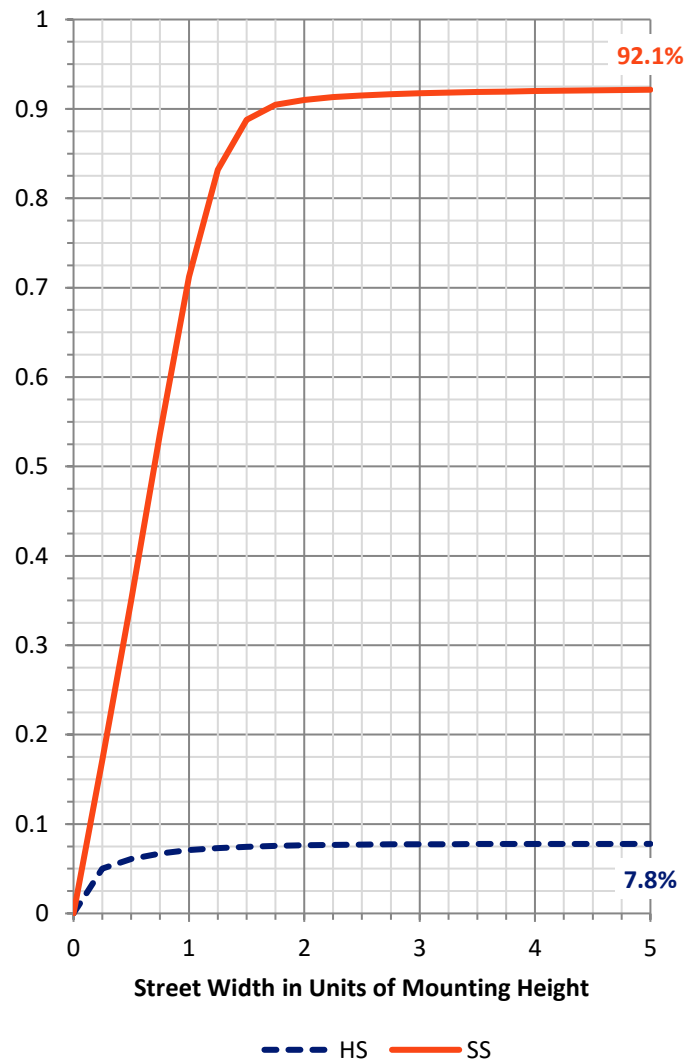
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3289.4	0.0	3289.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	38830.6	0.0	38830.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	42120.0	0.0	42120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.4	2.2
10°-20°	2281.2	5.4
20°-30°	3649.9	8.7
30°-40°	6177.6	14.7
40°-50°	10142.3	24.1
50°-60°	11147.1	26.5
60°-70°	6394.0	15.2
70°-80°	1306.5	3.1
80°-90°	77.1	0.2
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°	42120.0	100.0
0°-180°	42120.0	100.0

Coefficient of Utilization



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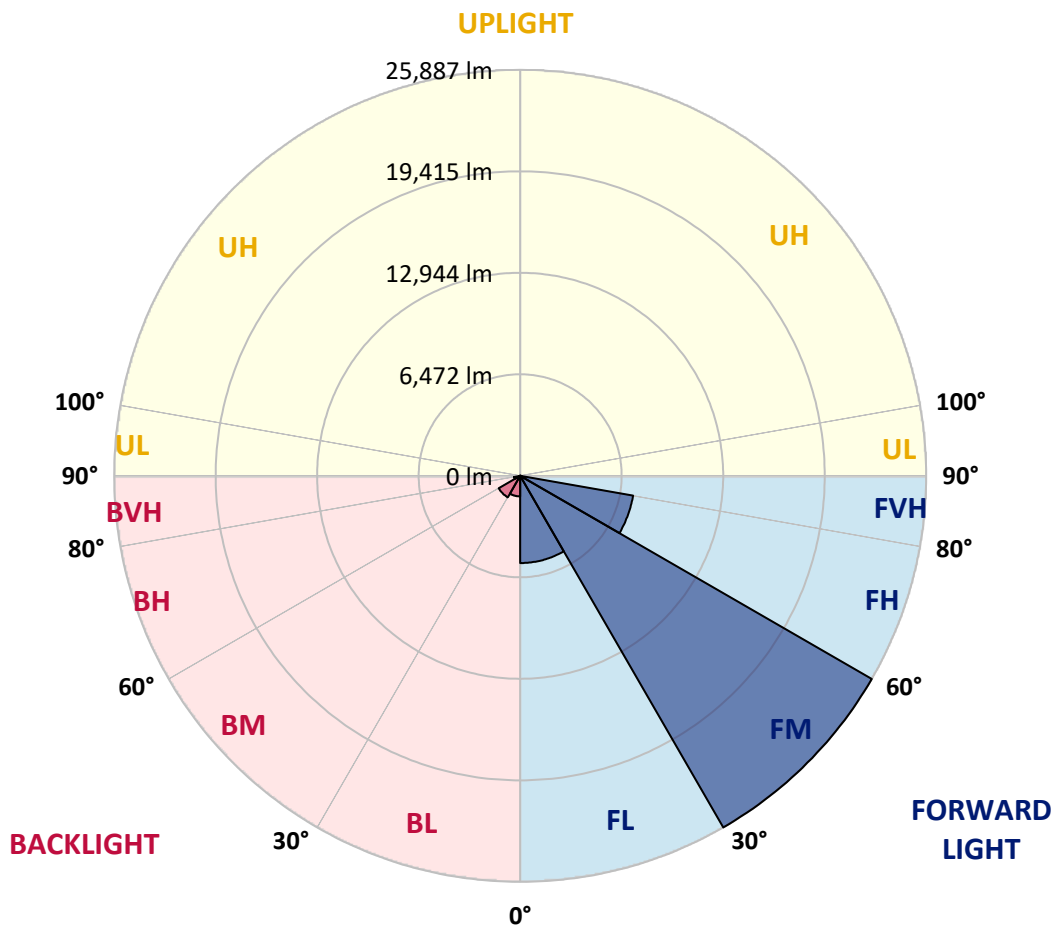
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5562.2	13.2			
FM	(30°-60°)	25887.3	61.5			
FH	(60°-80°)	7309.3	17.4			G3/7500
FVH	(80°-90°)	71.9	0.2			G1/100
BL	(0°-30°)	1313.2	3.1	B3/2500		
BM	(30°-60°)	1579.8	3.8	B2/2500		
BH	(60°-80°)	391.2	0.9	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9
2.5°	12593.9	12435.4	12412.0	12380.9	12079.6	11853.6	11526.4	11168.0	10765.4	10355.1	10173.3
5°	14549.5	14424.9	14401.5	14256.1	13913.2	13528.8	12947.1	12212.1	11461.5	10578.4	10199.2
7.5°	14928.7	14905.4	15011.9	15006.7	14959.9	14656.0	14165.2	13289.9	12162.7	10853.7	10266.8
10°	13238.0	13297.7	13614.6	13892.5	14643.0	15079.4	14972.9	14250.9	12884.7	11168.0	10342.1
12.5°	11697.8	11627.7	11853.6	12167.9	13040.6	14339.2	15307.9	15053.4	13710.7	11523.8	10453.8
15°	10731.7	10703.1	10830.3	10975.8	11640.7	12949.7	14918.4	15705.3	14505.4	11944.6	10622.6
17.5°	10422.6	10399.2	10438.2	10474.5	10905.7	11918.6	13991.1	16105.3	15266.4	12425.0	10809.6
20°	10674.5	10643.4	10638.2	10609.6	10788.8	11479.7	13152.3	16133.8	15949.4	12861.4	10970.6
22.5°	11409.5	11373.2	11245.9	11131.6	11147.2	11539.4	12778.3	15848.2	16463.7	13269.1	11071.9
25°	12741.9	12682.2	12417.2	12032.9	11788.7	11954.9	12835.4	15471.6	16954.6	13588.6	11022.5
27.5°	14409.3	14331.4	13991.1	13419.8	12861.4	12658.8	13248.3	15211.8	17362.3	13832.7	10916.1
30°	16042.9	15941.7	15606.6	15162.5	14347.0	13708.1	13993.7	15326.1	17848.0	14087.2	10775.8
32.5°	17806.4	17710.3	17266.2	16715.6	16040.3	15180.7	15014.4	15884.5	18442.8	14443.1	10677.1
35°	20037.4	19886.8	19255.7	18505.1	17788.3	16918.2	16396.2	16848.1	19234.9	14985.9	10731.7
37.5°	22577.5	22374.9	21694.5	20658.2	19723.2	18749.2	18079.2	18172.7	20395.9	15713.1	10900.5
40°	24972.1	24787.7	24159.2	23182.7	22008.7	20827.0	20112.8	19905.0	21998.3	16598.7	11196.6
42.5°	26408.4	26242.2	25977.3	25564.3	24574.8	23369.7	22468.4	22019.1	23894.3	17658.4	11557.6
45°	26488.9	26343.5	26699.3	27179.8	26985.0	26182.4	25083.8	24260.5	25798.0	18653.1	11931.6
47.5°	25200.7	25102.0	26182.4	27860.2	28696.5	29034.2	28021.3	26314.9	27369.4	19367.4	12084.8
50°	21689.3	21652.9	23876.1	26956.4	29348.4	31532.7	31119.7	28226.4	28587.4	19736.2	11939.4
52.5°	18806.4	18673.9	19969.9	24063.1	28400.5	32846.9	34148.1	30101.6	29439.3	19806.3	11599.1
55°	14263.9	14147.0	15772.8	19221.9	25343.5	32379.4	36363.5	32036.5	30049.7	19627.1	10988.8
57.5°	7651.4	7578.6	9633.0	12793.8	19811.5	29574.4	36763.5	34083.1	30563.9	19151.8	10134.3
60°	2979.0	2966.0	3734.8	6207.3	12040.6	24060.5	34745.4	35311.6	30886.0	18567.4	9420.1
62.5°	1802.5	1841.4	1966.1	2786.8	5319.1	14946.9	30093.8	33914.3	31101.5	18032.4	8830.5
65°	1490.8	1493.4	1509.0	1914.1	2547.9	6254.1	22655.4	29317.3	30569.1	17079.2	7994.2
67.5°	1277.8	1301.2	1360.9	1519.4	1797.3	2742.6	13043.2	22710.0	27330.4	14861.2	6690.4
70°	1007.7	1038.9	1114.2	1249.3	1386.9	1716.8	4820.4	15110.5	20878.9	11201.8	5059.4
72.5°	849.3	846.7	885.6	1015.5	1101.2	1207.7	1854.4	8466.9	12134.1	5347.6	2503.7
75°	657.1	683.1	732.4	849.3	901.2	875.3	1005.1	3093.3	4347.7	1620.7	851.9
77.5°	514.2	535.0	579.2	693.5	745.4	620.7	579.2	1106.4	1397.3	581.8	384.4
80°	231.2	249.3	394.8	511.6	607.7	428.5	314.3	566.2	620.7	264.9	194.8
82.5°	41.6	70.1	231.2	270.1	311.7	277.9	163.6	293.5	303.9	106.5	67.5
85°	2.6	5.2	80.5	98.7	124.7	90.9	49.3	116.9	101.3	36.4	26.0
87.5°	0.0	0.0	0.0	2.6	2.6	13.0	15.6	20.8	15.6	13.0	10.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9	10149.9
2.5°	9986.3	9617.5	9259.0	8965.6	8794.1	8503.3	8311.1	8279.9	8199.4	8269.5
5°	9794.1	9134.4	8466.9	7869.5	7378.7	6744.9	6272.3	6072.3	5898.3	5958.0
7.5°	9703.2	8661.7	7622.8	6602.1	5552.8	4539.9	3786.7	3472.5	3233.5	3267.3
10°	9581.1	8170.8	6542.4	4984.0	3579.0	2579.0	2059.6	1867.4	1760.9	1763.5
12.5°	9487.6	7583.8	5287.9	3379.0	2179.1	1646.6	1485.6	1438.9	1407.7	1410.3
15°	9440.8	6893.0	4049.0	2251.8	1558.3	1394.7	1355.7	1335.0	1314.2	1311.6
17.5°	9362.9	6124.2	2963.4	1644.0	1363.5	1306.4	1272.6	1249.3	1223.3	1218.1
20°	9246.1	5251.6	2166.1	1389.5	1277.8	1233.7	1186.9	1155.8	1124.6	1119.4
22.5°	9030.5	4329.5	1664.8	1285.6	1215.5	1166.1	1109.0	1072.6	1041.5	1036.3
25°	8630.5	3464.7	1402.5	1220.7	1161.0	1101.2	1038.9	989.5	961.0	955.8
27.5°	8124.1	2721.9	1272.6	1161.0	1090.8	1036.3	966.2	919.4	893.4	888.2
30°	7526.7	2095.9	1197.3	1093.4	1007.7	961.0	898.6	859.7	844.1	844.1
32.5°	6882.6	1675.2	1166.1	1025.9	935.0	883.1	833.7	818.1	812.9	810.3
35°	6277.4	1454.4	1150.6	971.4	870.1	820.7	799.9	802.5	812.9	812.9
37.5°	5739.8	1384.3	1142.8	932.4	812.9	768.8	781.8	805.1	794.7	794.7
40°	5254.1	1392.1	1137.6	903.8	766.2	740.2	766.2	748.0	722.0	719.4
42.5°	4882.7	1457.0	1127.2	880.5	737.6	719.4	709.0	680.5	677.9	683.1
45°	4612.6	1514.2	1124.6	870.1	706.4	672.7	659.7	631.1	683.1	696.1
47.5°	4293.2	1514.2	1124.6	833.7	654.5	641.5	620.7	589.6	641.5	654.5
50°	3880.2	1418.1	1080.4	792.1	612.9	605.1	568.8	529.8	519.4	527.2
52.5°	3358.2	1244.1	968.8	735.0	571.4	555.8	511.6	483.1	475.3	475.3
55°	2763.4	1041.5	818.1	651.9	527.2	498.7	467.5	454.5	446.7	441.5
57.5°	2246.6	854.5	657.1	579.2	485.7	449.3	438.9	423.3	410.4	402.6
60°	1844.0	672.7	542.8	514.2	444.1	410.4	407.8	387.0	353.2	348.0
62.5°	1423.3	493.5	457.1	446.7	402.6	374.0	368.8	327.2	275.3	264.9
65°	1005.1	384.4	368.8	392.2	358.4	332.4	319.5	257.1	202.6	194.8
67.5°	706.4	322.1	290.9	342.8	311.7	277.9	270.1	218.2	168.8	163.6
70°	503.9	262.3	238.9	293.5	249.3	244.1	228.6	181.8	137.7	132.5
72.5°	355.8	200.0	184.4	254.5	171.4	210.4	187.0	140.2	103.9	98.7
75°	262.3	142.8	129.9	148.0	124.7	158.4	132.5	93.5	64.9	62.3
77.5°	192.2	90.9	77.9	72.7	72.7	98.7	72.7	39.0	28.6	26.0
80°	135.1	41.6	36.4	31.2	28.6	23.4	10.4	5.2	2.6	2.6
82.5°	80.5	18.2	18.2	13.0	7.8	0.0	0.0	0.0	0.0	0.0
85°	18.2	7.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)