

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: P948424

Luminaire Tested: **GALN-SB3C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21197 lumens
Efficiency: N/A
Efficacy: 142.2 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): 149.1
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

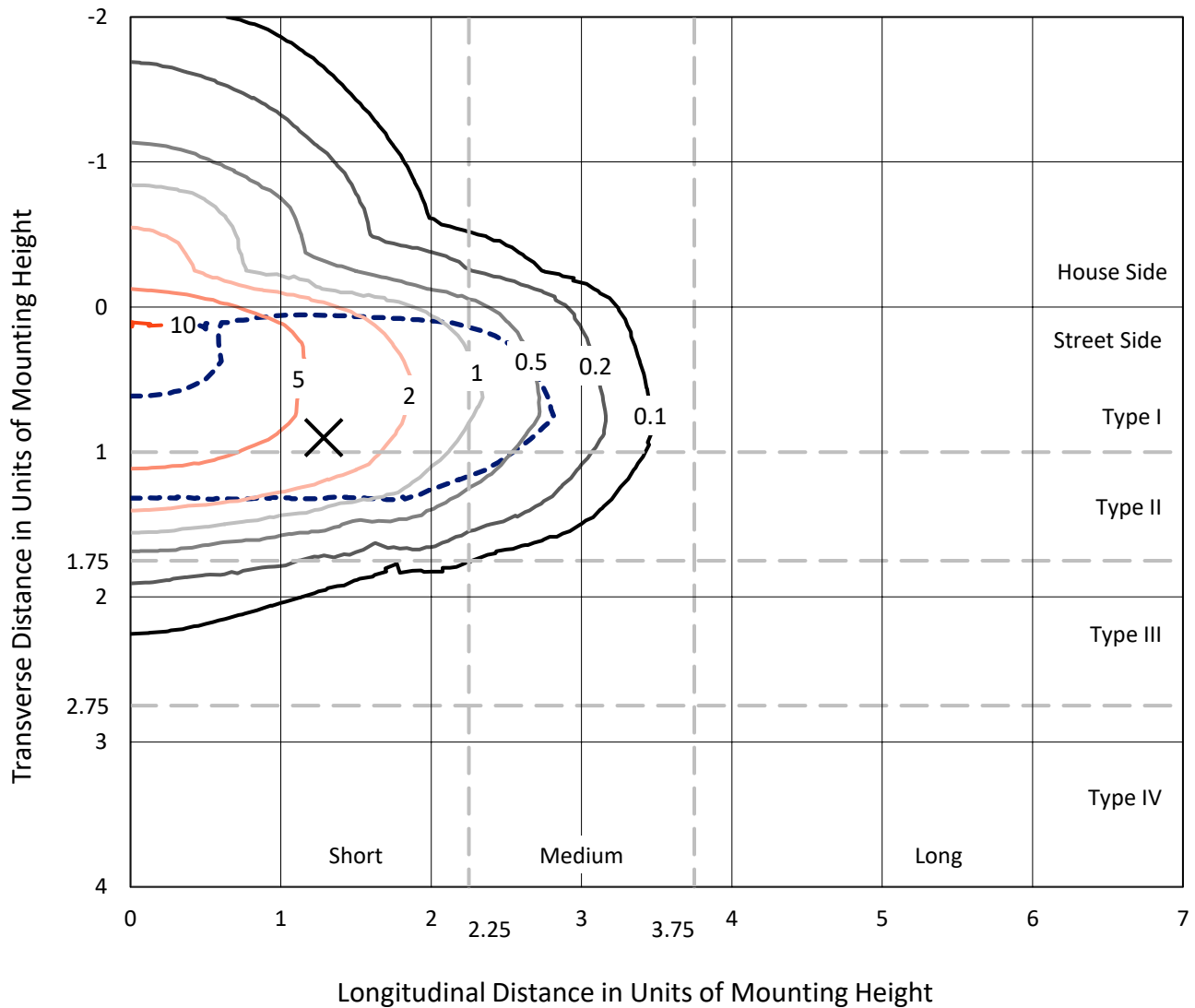


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

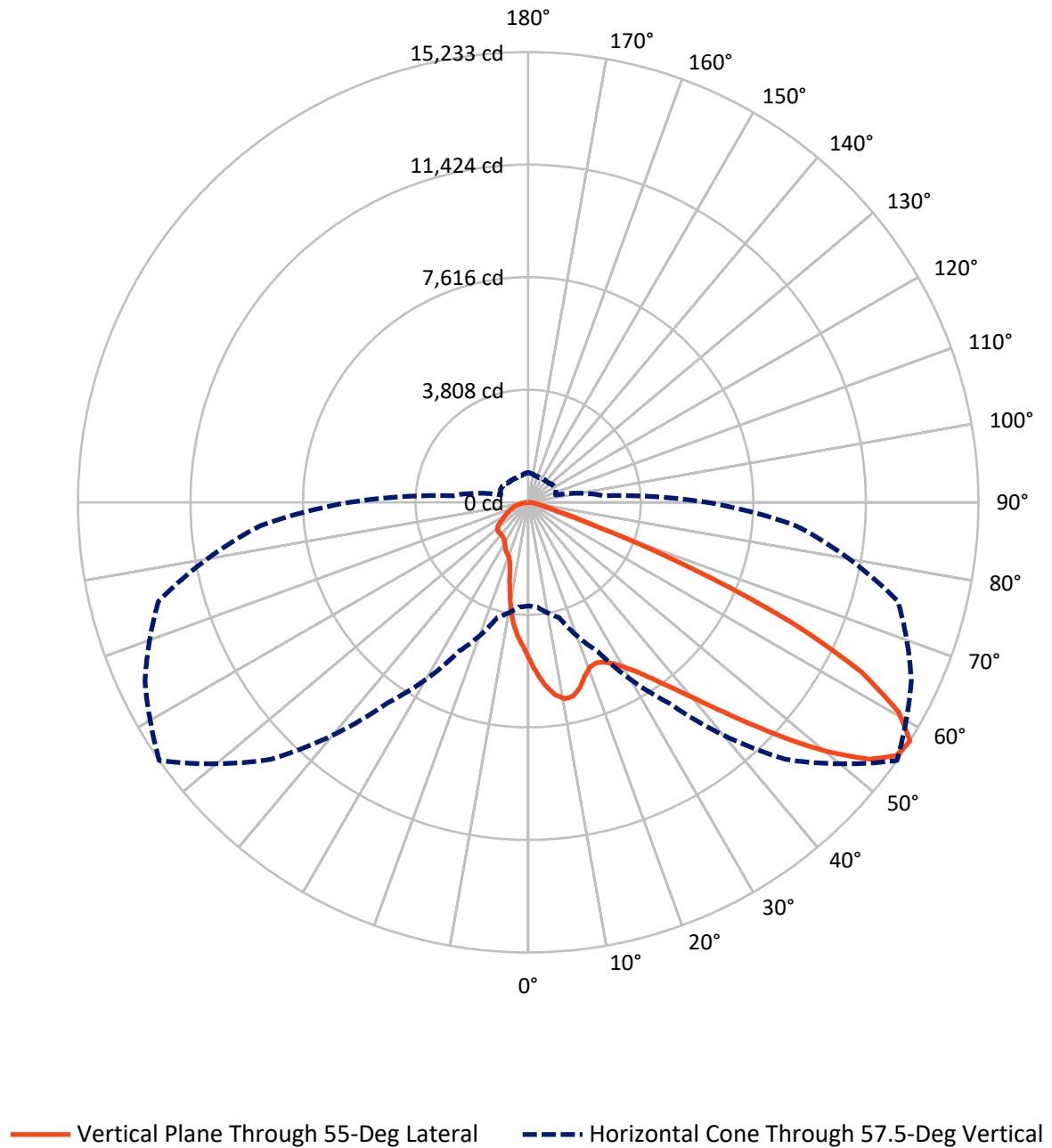


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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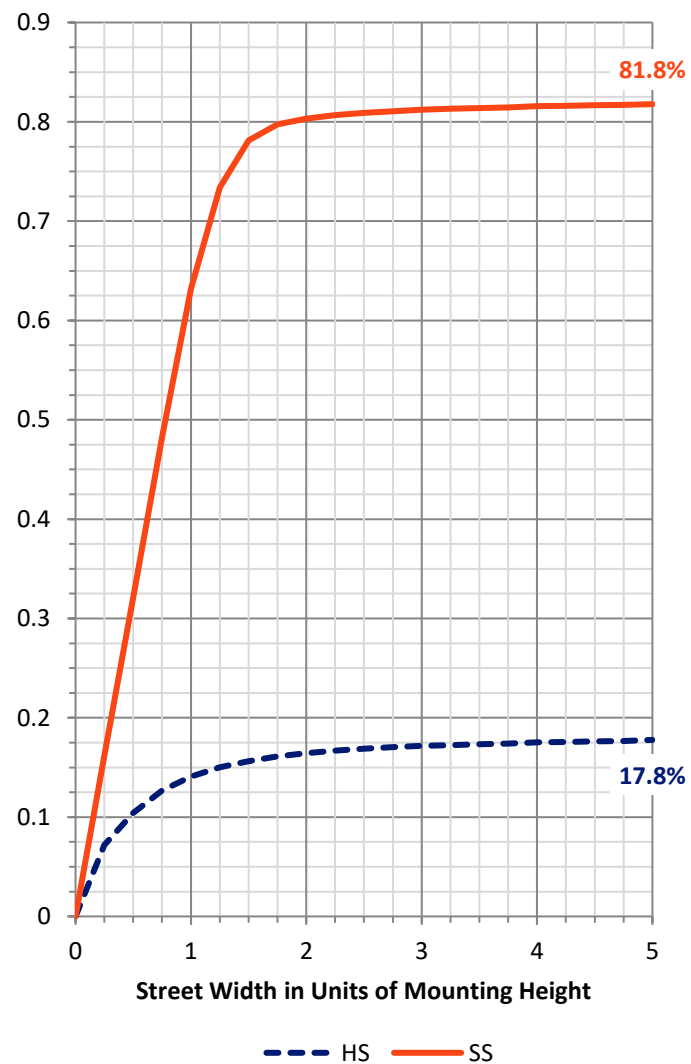
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3835.5	0.0	3835.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17361.5	0.0	17361.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	21197.0	0.0	21197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.9	2.3
10°-20°	1244.0	5.9
20°-30°	1985.1	9.4
30°-40°	3142.8	14.8
40°-50°	4810.4	22.7
50°-60°	5152.4	24.3
60°-70°	3241.4	15.3
70°-80°	958.5	4.5
80°-90°	169.5	0.8
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°	21197.0	100.0
0°-180°	21197.0	100.0

Coefficient of Utilization



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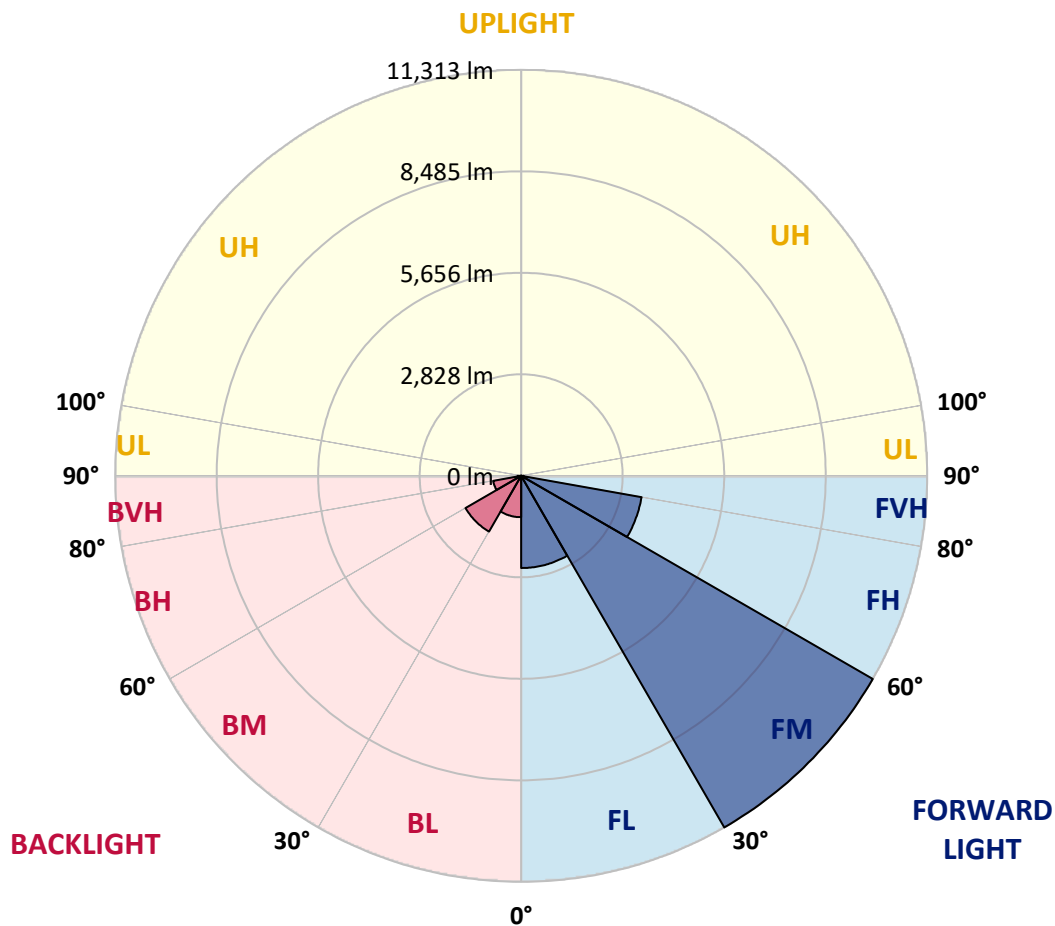
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2569.1	12.1			
FM	(30°-60°)	11313.0	53.4			
FH	(60°-80°)	3407.8	16.1			G2/5000
FVH	(80°-90°)	71.6	0.3			G1/100
BL	(0°-30°)	1152.8	5.4	B3/2500		
BM	(30°-60°)	1792.7	8.5	B2/2500		
BH	(60°-80°)	792.1	3.7	B2/1000		G2/1000
BVH	(80°-90°)	97.9	0.5			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°	55°	65°	75°	85°	90°
0°	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3
2.5°	6093.7	6089.3	6113.4	6031.2	5975.3	5899.7	5800.0	5672.9	5535.9	5391.3	5328.8
5°	6642.7	6604.3	6629.5	6568.1	6506.8	6392.8	6244.9	6037.8	5784.7	5496.5	5343.1
7.5°	6556.1	6529.8	6594.4	6649.2	6695.3	6681.0	6572.5	6355.6	6029.0	5610.4	5388.0
10°	5858.1	5828.5	5919.4	6109.0	6387.3	6629.5	6761.0	6626.2	6278.9	5735.3	5431.8
12.5°	5242.2	5228.0	5288.3	5441.7	5750.7	6215.3	6736.9	6862.9	6538.6	5883.3	5491.0
15°	4979.3	4961.7	5000.1	5077.9	5275.1	5708.0	6517.7	7025.1	6793.9	6054.2	5585.2
17.5°	4921.2	4901.5	4917.9	4958.4	5085.5	5415.4	6186.8	7105.1	7060.2	6244.9	5664.1
20°	5028.6	5012.1	5014.3	5012.1	5100.9	5362.8	5956.7	7074.4	7292.5	6420.2	5740.8
22.5°	5288.3	5260.9	5262.0	5203.9	5252.1	5454.8	5896.4	6992.2	7499.6	6573.6	5798.9
25°	5711.2	5661.9	5671.8	5523.9	5510.7	5660.8	5990.7	6928.7	7705.6	6696.4	5809.9
27.5°	6289.8	6233.9	6204.3	5984.1	5878.9	5953.4	6182.4	6950.6	7900.6	6802.6	5782.5
30°	7013.0	6945.1	6884.8	6572.5	6381.9	6354.5	6480.5	7095.2	8130.7	6914.4	5735.3
32.5°	7899.5	7820.6	7711.1	7296.8	7028.4	6884.8	6866.2	7352.7	8400.3	7056.9	5711.2
35°	8954.8	8851.8	8696.2	8160.3	7820.6	7527.0	7374.6	7724.2	8769.6	7271.6	5738.6
37.5°	10041.8	9925.6	9783.2	9145.4	8727.9	8295.1	7994.9	8228.3	9261.6	7563.1	5811.0
40°	11044.4	10914.0	10781.4	10213.8	9765.7	9244.1	8754.2	8866.0	9863.2	7911.6	5933.7
42.5°	11636.2	11539.7	11489.3	11182.5	10836.2	10307.0	9698.8	9622.1	10539.3	8312.6	6073.9
45°	11609.9	11570.4	11726.0	11853.1	11770.9	11477.3	10805.6	10458.2	11217.6	8660.0	6203.3
47.5°	10989.6	11015.9	11363.3	12077.8	12392.3	12545.7	12065.7	11278.9	11807.1	8919.7	6261.3
50°	9302.1	9324.1	10128.4	11669.0	12552.2	13416.8	13316.0	12080.0	12264.0	9078.6	6248.2
52.5°	7966.4	7980.6	8325.8	10457.1	12024.1	13855.1	14442.5	12835.0	12598.3	9122.4	6174.8
55°	6000.5	6049.8	6436.7	8204.2	10650.0	13507.8	15128.4	13613.0	12809.8	9126.8	6098.1
57.5°	3505.4	3559.1	4036.9	5568.8	8277.6	12296.9	15232.5	14303.3	12953.3	9091.7	6052.0
60°	1717.1	1740.1	1948.3	2926.8	5104.2	9964.0	14395.4	14637.5	13033.3	9073.1	6049.8
62.5°	1157.2	1153.9	1162.6	1444.2	2514.8	6401.6	12650.9	14052.4	12990.6	9001.9	6027.9
65°	995.0	982.9	950.0	1013.6	1302.9	2927.9	9774.4	12305.7	12665.1	8823.3	5877.8
67.5°	860.2	861.3	862.4	842.7	930.3	1351.1	5973.1	9693.3	11497.0	7977.3	5299.2
70°	712.3	722.1	726.5	726.5	758.3	886.5	2549.9	6643.8	9068.7	6254.8	4268.1
72.5°	648.7	627.9	630.1	619.1	619.1	675.0	1026.8	3766.2	5713.4	3518.6	2604.7
75°	529.3	542.4	544.6	536.9	511.7	515.0	609.3	1580.1	2444.7	1459.6	1287.5
77.5°	456.9	456.9	461.3	455.8	436.1	385.7	406.5	612.5	831.7	598.3	643.2
80°	367.1	366.0	384.6	395.6	364.9	284.9	259.7	338.6	369.3	263.0	334.2
82.5°	178.6	189.6	264.1	301.3	277.2	206.0	158.9	210.4	197.2	116.2	150.1
85°	104.1	98.6	118.3	167.7	158.9	114.0	76.7	109.6	103.0	59.2	60.3
87.5°	32.9	30.7	24.1	57.0	46.0	31.8	20.8	31.8	28.5	13.1	13.1
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°	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3	5311.3
2.5°	5251.0	5121.7	4993.5	4876.3	4805.0	4759.0	4713.0	4661.5	4641.8	4612.2
5°	5198.4	4948.6	4726.1	4534.4	4360.1	4223.2	4085.1	3973.3	3922.9	3956.9
7.5°	5167.7	4806.1	4463.1	4111.4	3772.8	3502.1	3266.5	3101.1	3026.6	3045.2
10°	5140.3	4645.0	4122.4	3566.8	3080.3	2744.9	2503.9	2377.9	2330.7	2340.6
12.5°	5115.1	4464.2	3711.4	2980.5	2463.3	2242.0	2172.9	2174.0	2182.8	2189.4
15°	5110.8	4246.2	3252.3	2467.7	2130.2	2116.0	2190.5	2237.6	2262.8	2270.5
17.5°	5104.2	3985.4	2784.4	2118.2	2049.1	2145.6	2214.6	2245.3	2265.0	2266.1
20°	5077.9	3654.5	2352.7	1951.6	2031.6	2114.9	2157.6	2181.7	2198.1	2203.6
22.5°	4996.8	3286.3	2016.2	1877.1	1961.5	2028.3	2078.7	2106.1	2116.0	2122.5
25°	4851.0	2874.2	1783.9	1805.9	1863.9	1948.3	1988.9	1994.3	1991.0	2000.9
27.5°	4660.4	2432.6	1639.3	1709.4	1783.9	1856.3	1878.2	1874.9	1868.3	1879.3
30°	4430.3	2036.0	1547.3	1600.9	1702.9	1768.6	1788.3	1780.7	1767.5	1779.6
32.5°	4187.0	1711.6	1471.6	1525.3	1636.0	1700.7	1720.4	1712.7	1702.9	1712.7
35°	3960.2	1484.8	1401.5	1474.9	1583.4	1647.0	1672.2	1673.3	1673.3	1685.3
37.5°	3752.0	1352.2	1343.4	1443.2	1547.3	1604.2	1640.4	1642.6	1595.5	1598.8
40°	3559.1	1296.3	1317.1	1422.3	1512.2	1567.0	1569.2	1446.4	1359.9	1357.7
42.5°	3401.3	1285.4	1324.8	1420.1	1487.0	1489.2	1334.7	1239.3	1215.2	1216.3
45°	3253.4	1282.1	1342.3	1420.1	1449.7	1286.5	1182.4	1157.2	1159.3	1168.1
47.5°	3087.9	1268.9	1345.6	1400.4	1342.3	1144.0	1113.3	1102.4	1098.0	1100.2
50°	2907.1	1221.8	1304.0	1361.0	1158.2	1082.6	1044.3	1041.0	1046.5	1049.8
52.5°	2716.5	1145.1	1232.8	1289.7	1073.9	1028.9	986.2	993.9	1018.0	1025.7
55°	2591.5	1055.2	1138.5	1147.3	1014.7	978.5	942.4	959.9	1004.8	1019.1
57.5°	2558.7	959.9	1031.1	1021.3	939.1	934.7	912.8	928.1	985.1	1005.9
60°	2548.8	874.4	925.9	918.3	865.7	886.5	881.0	888.7	908.4	915.0
62.5°	2472.1	806.5	831.7	820.7	799.9	836.1	849.2	832.8	848.1	855.8
65°	2277.0	751.7	739.7	732.0	740.8	773.6	799.9	767.1	781.3	803.2
67.5°	1954.9	677.2	644.3	653.1	680.5	698.0	732.0	694.7	706.8	744.0
70°	1581.2	583.0	553.4	578.6	604.9	641.0	646.5	621.3	649.8	691.4
72.5°	1118.8	487.6	466.8	518.3	527.1	574.2	562.1	550.1	589.5	603.8
75°	775.8	393.4	381.3	420.8	452.6	493.1	484.3	498.6	581.9	588.4
77.5°	490.9	305.7	298.1	323.3	367.1	412.0	426.3	588.4	993.9	1033.3
80°	284.9	227.9	219.2	238.9	277.2	318.9	410.9	722.1	655.3	647.6
82.5°	158.9	156.7	145.7	151.2	185.2	230.1	580.8	508.4	413.1	426.3
85°	74.5	92.0	78.9	75.6	104.1	269.6	387.9	290.4	192.9	188.5
87.5°	19.7	17.5	17.5	19.7	43.8	232.3	154.5	123.8	73.4	71.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)