

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: P532543

Luminaire Tested: **GALN-SA7D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31940 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 433
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

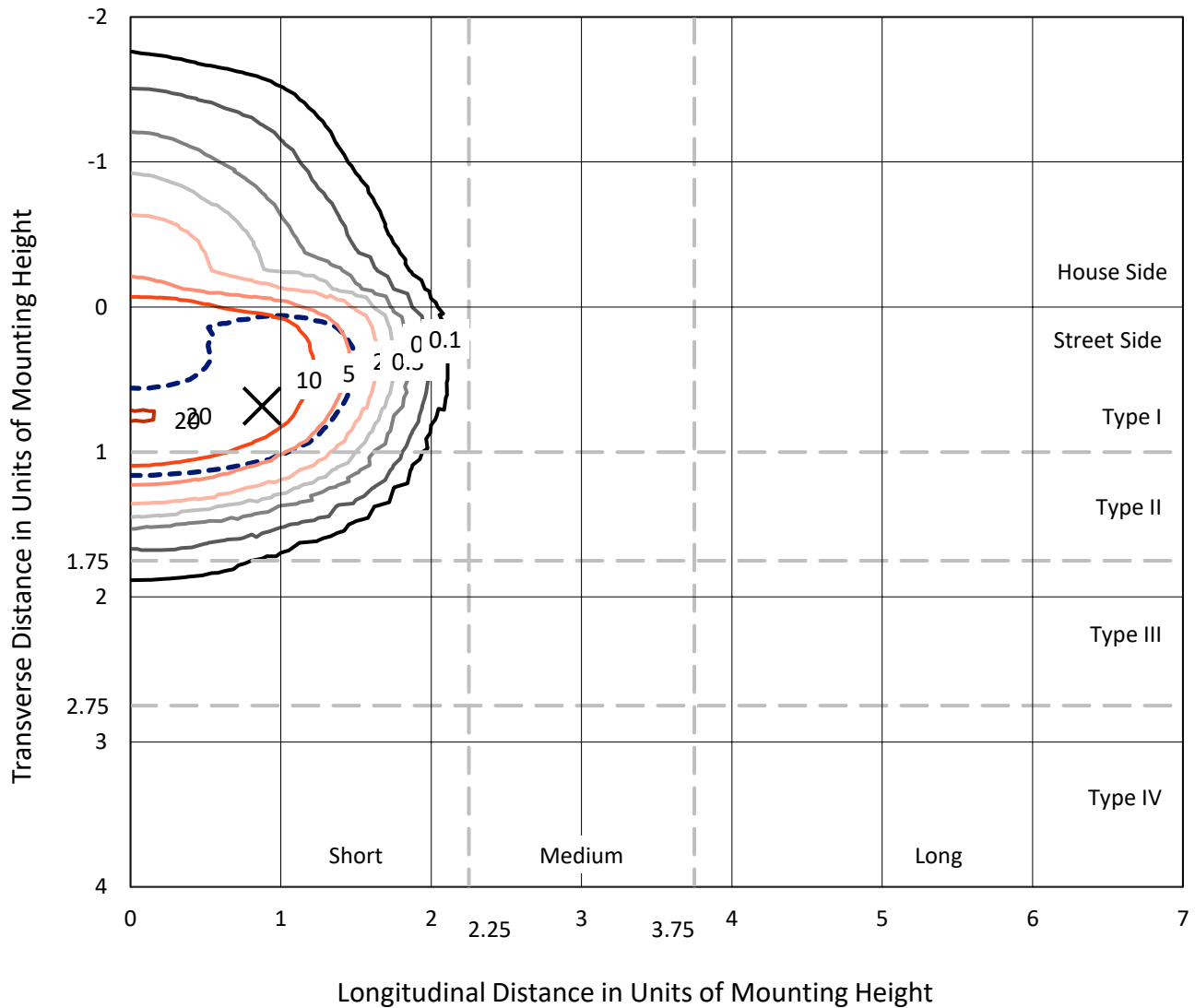


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

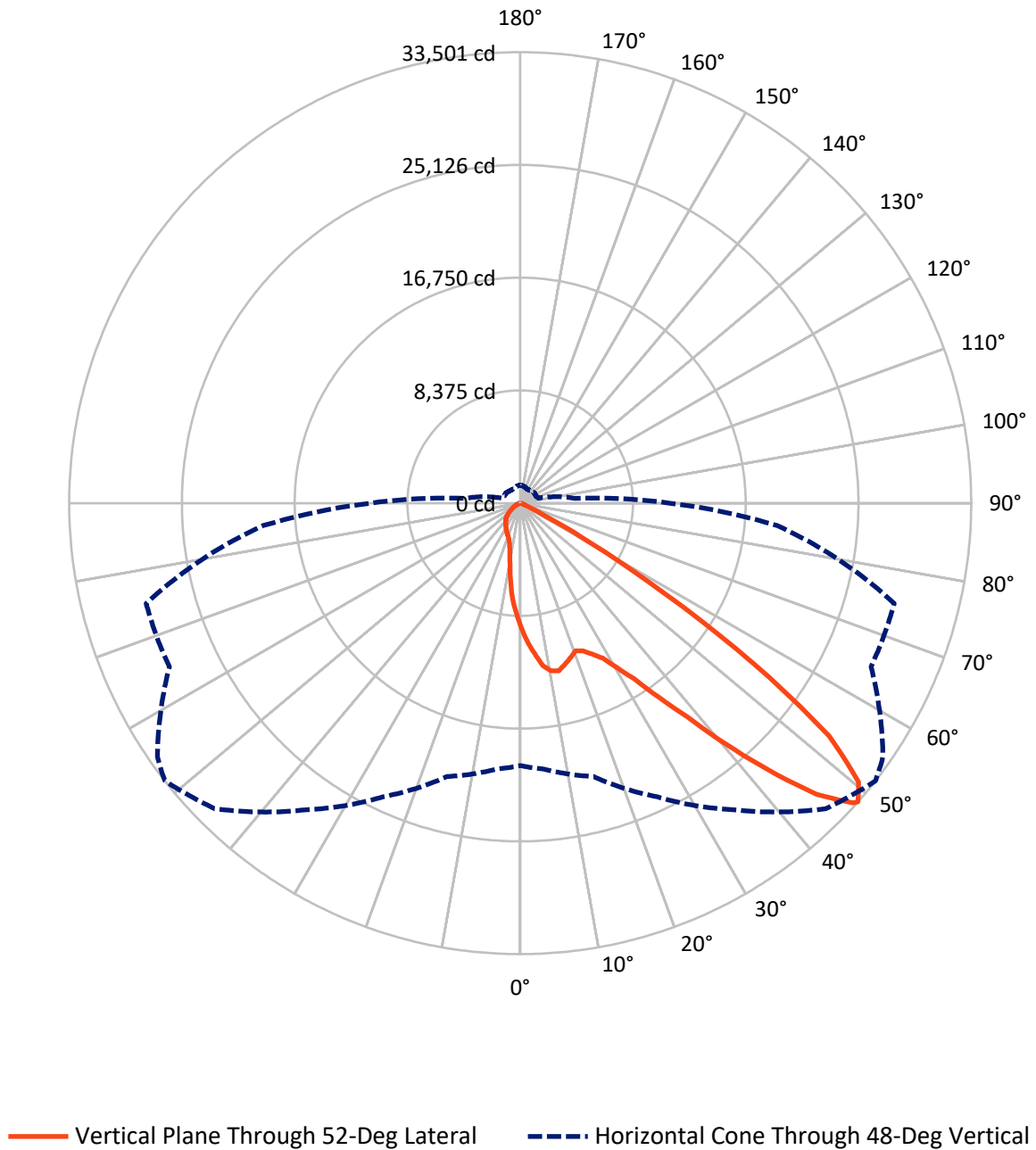


Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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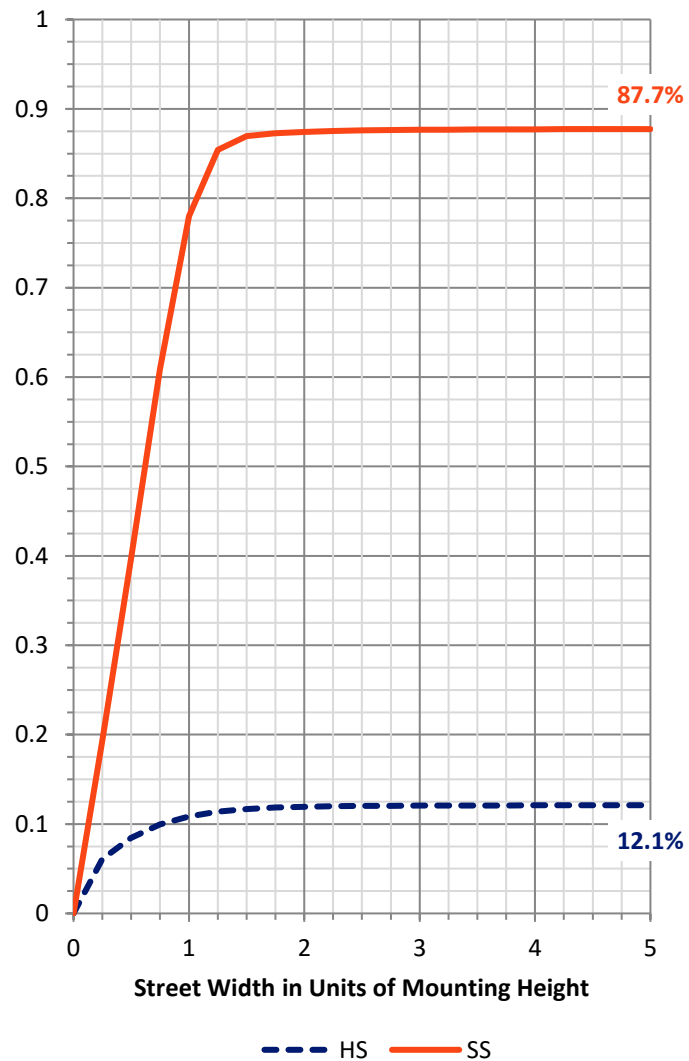
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3888.9	0.0	3888.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	28051.1	0.0	28051.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	31940.0	0.0	31940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.2	2.6
10°-20°	2206.3	6.9
20°-30°	3767.0	11.8
30°-40°	6937.0	21.7
40°-50°	10773.2	33.7
50°-60°	6483.6	20.3
60°-70°	749.9	2.3
70°-80°	145.1	0.5
80°-90°	33.6	0.1
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°	31940.0	100.0
0°-180°	31940.0	100.0

Coefficient of Utilization



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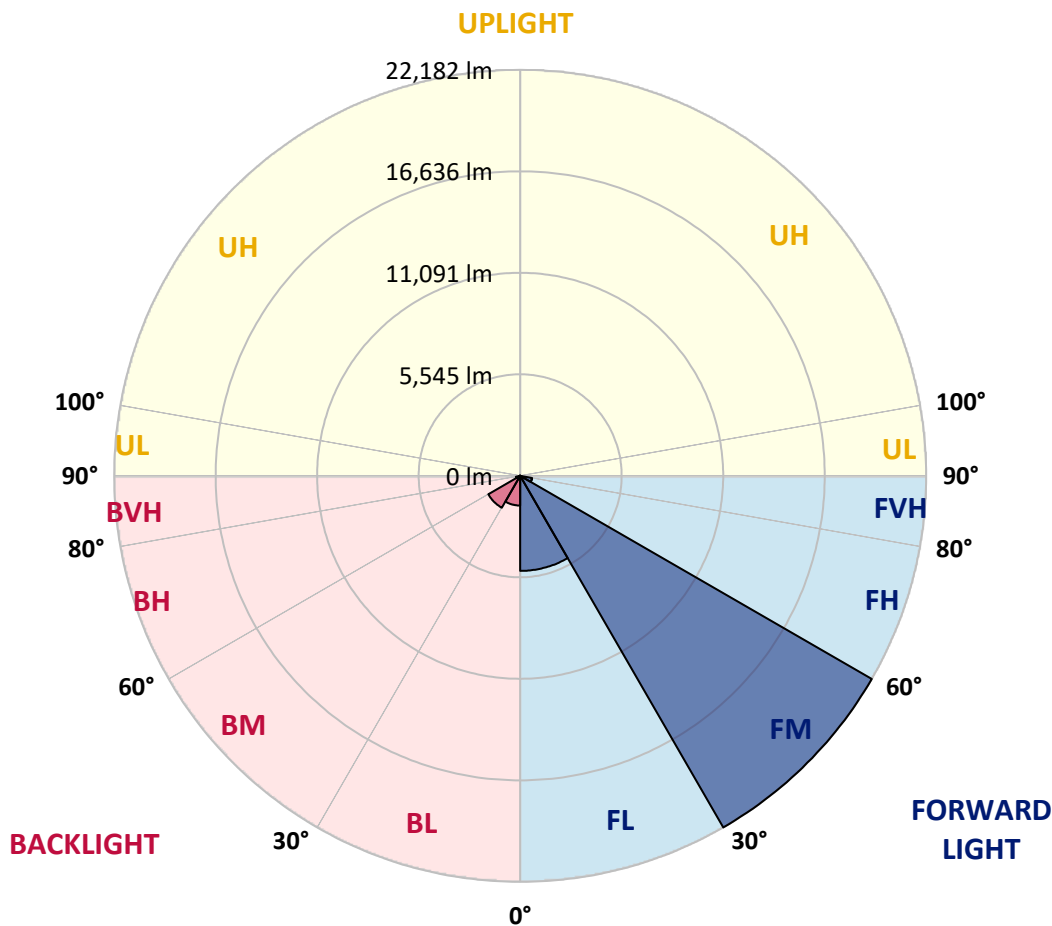
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5193.0	16.3			
FM	(30°-60°)	22181.7	69.4			
FH	(60°-80°)	660.3	2.1			G1/1800
FVH	(80°-90°)	16.0	0.1			G1/100
BL	(0°-30°)	1624.5	5.1	B3/2500		
BM	(30°-60°)	2012.1	6.3	B2/2500		
BH	(60°-80°)	234.7	0.7	B1/500		G1/500
BVH	(80°-90°)	17.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7
2.5°	11179.3	10923.2	10946.5	10778.9	10681.1	10522.8	10308.6	10266.7	10033.9	9717.3	9396.0
5°	12185.0	12124.5	12203.6	11961.5	11970.8	11710.1	11207.2	11216.6	10681.1	10164.3	9666.1
7.5°	12250.2	12110.5	12189.7	12403.9	12529.6	12483.0	12199.0	11952.2	11444.7	10685.8	9959.4
10°	10969.8	11235.2	11319.0	11672.9	12175.7	12706.5	12673.9	12687.9	12264.2	11272.4	10210.8
12.5°	10201.5	10024.6	10308.6	10522.8	11281.7	12310.7	12781.0	12883.4	12916.0	11840.5	10462.3
15°	9852.3	9852.3	9898.9	9959.4	10508.8	11458.7	12417.8	12715.8	13418.9	12585.4	10858.0
17.5°	10071.2	10061.8	10127.0	10001.3	10206.2	10937.2	12082.6	12422.5	13982.3	13316.5	11170.0
20°	10737.0	10769.6	10727.7	10364.5	10378.5	10927.9	11710.1	12245.6	14364.1	13949.7	11584.4
22.5°	11663.5	11682.2	11444.7	11048.9	10932.5	11202.6	11924.3	12334.0	14671.4	14708.6	11710.1
25°	12734.4	12659.9	12613.4	12054.7	11700.8	11933.6	12408.5	12646.0	14862.3	15360.5	12068.6
27.5°	14219.7	14070.7	13786.7	13288.5	13027.8	12697.2	13037.1	13428.2	15407.0	16273.1	12459.7
30°	16412.8	16282.4	15728.3	15085.8	14401.3	14075.4	14182.5	14396.7	16389.5	17330.0	12976.6
32.5°	19713.9	19439.2	18638.4	17413.8	16482.6	15584.0	15556.0	15784.2	17269.5	18792.0	13591.2
35°	23350.4	23266.6	22088.6	20826.8	19024.8	17637.3	17660.6	17781.7	18955.0	20710.3	14396.7
37.5°	25766.9	26227.8	25478.2	24123.3	22610.0	20626.5	20123.7	20165.6	21269.1	22982.5	15849.4
40°	27634.0	27242.9	27331.3	27014.7	25981.1	24630.8	23518.0	23299.1	23946.3	25496.8	17292.8
42.5°	26819.2	26837.8	27382.5	28132.2	28388.3	28290.5	27154.4	26740.0	26237.1	27554.8	18666.3
45°	24519.0	24998.6	25706.3	27689.8	29431.2	31065.5	30842.0	30152.9	27820.2	29184.5	19457.9
47.5°	20850.0	20831.4	21990.8	24570.3	28439.5	32266.8	33281.8	32797.6	28942.3	29002.9	19294.9
48°	19495.1	19830.3	21027.0	24062.7	27810.9	32089.9	33500.7	32890.7	28751.4	28760.8	19155.2
50°	14410.6	14350.1	15840.1	19564.9	24840.3	30152.9	32578.8	33053.7	28746.8	27536.2	18177.4
52.5°	7612.7	7873.5	8958.3	12301.4	17562.8	24677.3	28737.5	29477.8	27731.8	25534.1	16771.3
55°	3236.0	2924.0	3757.5	5554.7	9880.3	16487.3	21082.8	22731.1	23448.1	22596.1	14671.4
57.5°	1154.7	1261.8	1452.7	2090.6	4153.2	9023.5	12571.5	13851.9	16245.1	16580.4	9996.7
60°	740.3	754.3	814.8	959.2	1559.8	3478.1	5964.5	6984.2	8069.0	8329.8	4665.4
62.5°	572.7	577.4	605.3	628.6	740.3	1350.3	2239.6	2654.0	2756.4	2370.0	1224.6
65°	479.6	484.2	493.5	493.5	526.1	633.2	782.2	861.4	838.1	828.8	693.8
67.5°	367.8	377.1	395.8	395.8	414.4	386.5	433.0	461.0	521.5	633.2	591.3
70°	288.7	293.3	307.3	316.6	316.6	279.4	312.0	339.9	381.8	470.3	465.6
72.5°	223.5	232.8	242.1	242.1	228.1	190.9	223.5	246.8	274.7	325.9	316.6
75°	172.3	172.3	176.9	144.3	111.7	97.8	135.0	163.0	204.9	214.2	176.9
77.5°	46.6	51.2	46.6	41.9	46.6	69.8	88.5	102.4	130.4	130.4	116.4
80°	0.0	4.7	14.0	27.9	46.6	65.2	79.2	88.5	102.4	111.7	107.1
82.5°	0.0	4.7	14.0	27.9	41.9	51.2	69.8	74.5	83.8	97.8	97.8
85°	0.0	4.7	9.3	18.6	27.9	32.6	32.6	27.9	27.9	23.3	18.6
87.5°	0.0	0.0	4.7	9.3	9.3	14.0	14.0	14.0	14.0	14.0	14.0
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°	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7	9223.7
2.5°	9270.3	9126.0	8907.1	8562.6	8232.0	8017.8	7812.9	7584.8	7459.1	7449.8	7379.9
5°	9382.0	9056.1	8534.6	7943.3	7310.1	6765.3	6215.9	5857.4	5536.1	5359.2	5326.6
7.5°	9442.6	9018.9	8176.1	7184.4	6104.2	5214.8	4600.2	4148.6	3971.7	3841.3	3836.6
10°	9568.3	8953.7	7640.7	6178.6	4842.3	3943.7	3520.0	3315.1	3217.4	3180.1	3124.2
12.5°	9661.4	8832.6	7091.2	5145.0	3827.3	3268.6	3082.3	3035.8	3040.4	3059.1	3035.8
15°	9791.8	8725.5	6350.9	4223.1	3212.7	2942.7	2942.7	2952.0	3017.2	3026.5	3021.8
17.5°	9782.5	8516.0	5587.3	3478.1	2840.2	2803.0	2816.9	2905.4	2947.3	2961.3	2928.7
20°	9894.2	8320.5	4800.4	2970.6	2630.7	2686.6	2779.7	2803.0	2854.2	2863.5	2826.3
22.5°	9861.6	7831.6	4069.4	2570.2	2472.4	2579.5	2672.6	2700.5	2686.6	2658.6	2654.0
25°	9801.1	7412.5	3399.0	2304.8	2356.0	2472.4	2560.9	2509.6	2481.7	2486.4	2491.0
27.5°	9694.0	6881.7	2844.9	2118.5	2197.7	2370.0	2365.3	2346.7	2374.6	2351.3	2374.6
30°	9675.4	6350.9	2388.6	1950.9	2081.3	2207.0	2216.3	2248.9	2281.5	2239.6	2281.5
32.5°	9703.3	5768.9	2062.7	1848.5	2011.4	2016.1	2118.5	2151.1	2127.8	2034.7	2044.0
35°	9917.5	5321.9	1825.2	1792.6	1899.7	1904.3	2002.1	1960.2	1857.8	1801.9	1834.5
37.5°	10369.1	4949.4	1713.4	1741.4	1750.7	1811.2	1815.9	1732.1	1741.4	1736.7	1755.4
40°	10946.5	4665.4	1634.3	1694.8	1685.5	1727.4	1559.8	1606.4	1648.3	1662.2	1671.5
42.5°	11342.3	4460.5	1583.1	1620.3	1601.7	1527.2	1434.1	1480.6	1513.2	1564.5	1573.8
45°	11519.2	4297.6	1522.5	1490.0	1490.0	1354.9	1317.7	1327.0	1401.5	1457.4	1448.0
47.5°	11230.5	4139.3	1415.5	1317.7	1350.3	1238.5	1196.6	1196.6	1275.8	1345.6	1331.6
48°	11118.8	4074.1	1420.1	1280.4	1303.7	1219.9	1178.0	1168.7	1257.1	1322.3	1322.3
50°	10564.7	3832.0	1299.1	1178.0	1131.4	1122.1	1094.2	1103.5	1159.4	1219.9	1219.9
52.5°	9484.5	3310.5	1098.8	1010.4	926.6	982.4	996.4	977.8	1005.7	1061.6	1056.9
55°	7915.4	2542.2	880.0	838.1	772.9	833.4	861.4	838.1	810.2	852.1	852.1
57.5°	5070.5	1368.9	703.1	712.4	647.2	707.7	731.0	675.1	623.9	656.5	651.9
60°	2286.1	819.5	577.4	563.4	521.5	591.3	628.6	563.4	493.5	516.8	540.1
62.5°	856.7	582.0	437.7	428.4	419.0	484.2	502.9	451.6	381.8	395.8	400.4
65°	628.6	512.2	349.2	316.6	335.2	381.8	372.5	321.3	274.7	274.7	284.0
67.5°	535.5	447.0	284.0	246.8	246.8	251.4	232.8	204.9	190.9	200.2	209.5
70°	419.0	353.9	223.5	190.9	172.3	153.7	135.0	130.4	116.4	130.4	125.7
72.5°	270.1	237.5	172.3	144.3	130.4	107.1	88.5	83.8	69.8	65.2	65.2
75°	144.3	144.3	135.0	116.4	102.4	83.8	69.8	55.9	37.2	27.9	27.9
77.5°	102.4	111.7	121.1	111.7	93.1	69.8	55.9	37.2	18.6	9.3	9.3
80°	97.8	111.7	121.1	107.1	93.1	69.8	51.2	27.9	14.0	4.7	4.7
82.5°	88.5	102.4	111.7	97.8	83.8	60.5	46.6	27.9	14.0	4.7	4.7
85°	18.6	23.3	27.9	27.9	32.6	41.9	32.6	23.3	9.3	4.7	4.7
87.5°	14.0	14.0	14.0	14.0	14.0	14.0	9.3	9.3	4.7	4.7	4.7
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)