

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: P458843

Luminaire Tested: **GALN-SA3D-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21057 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

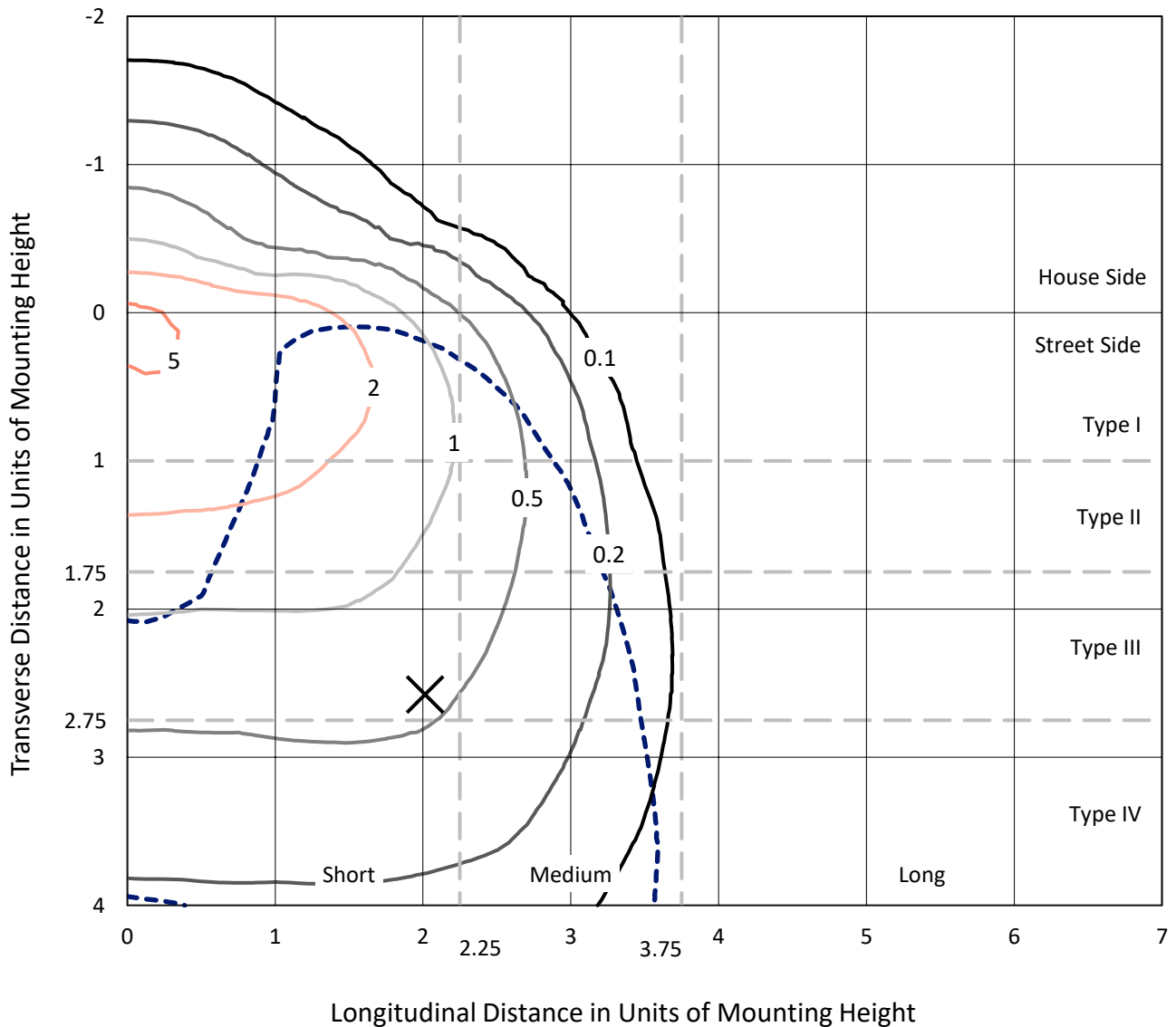
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

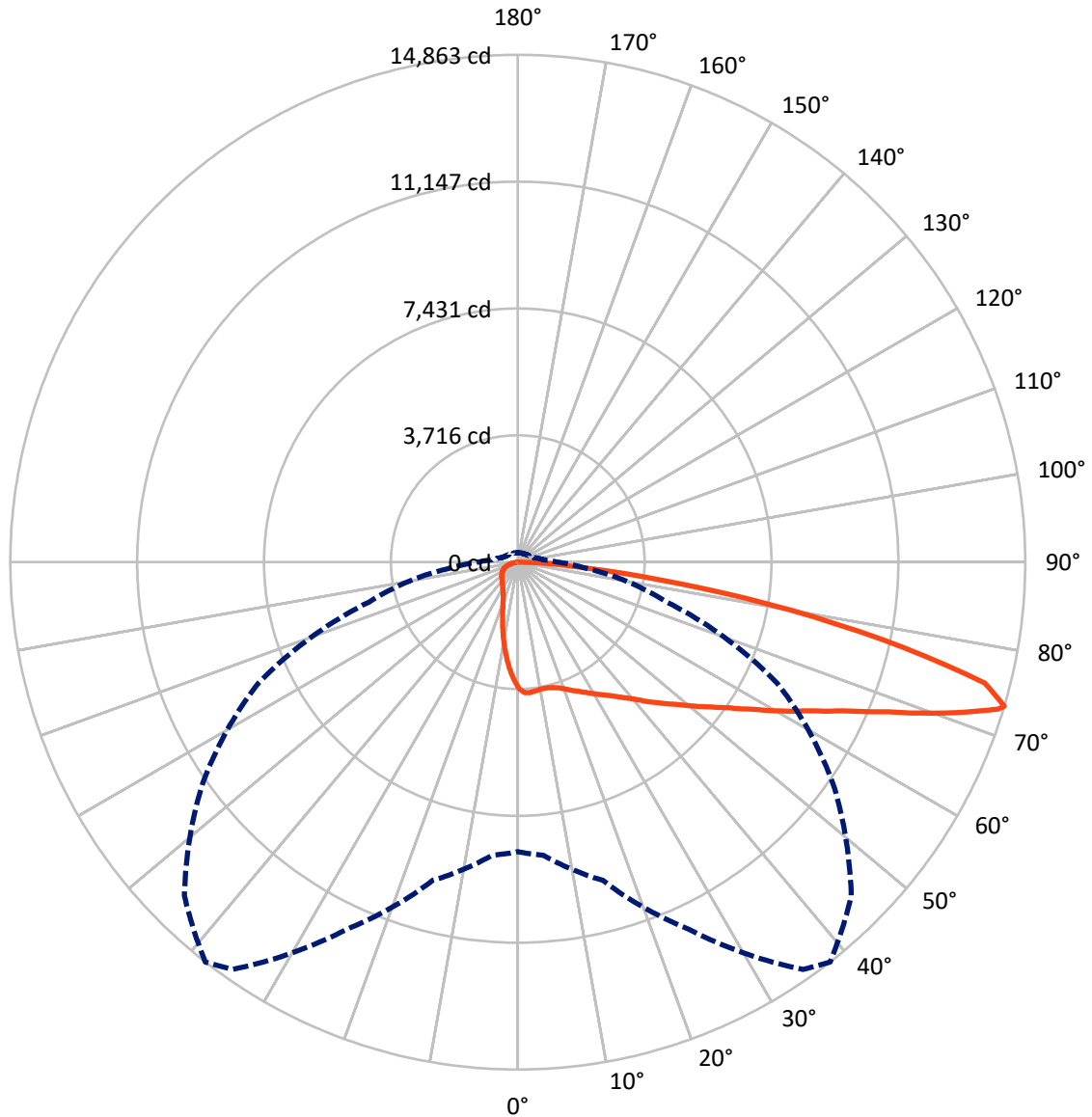
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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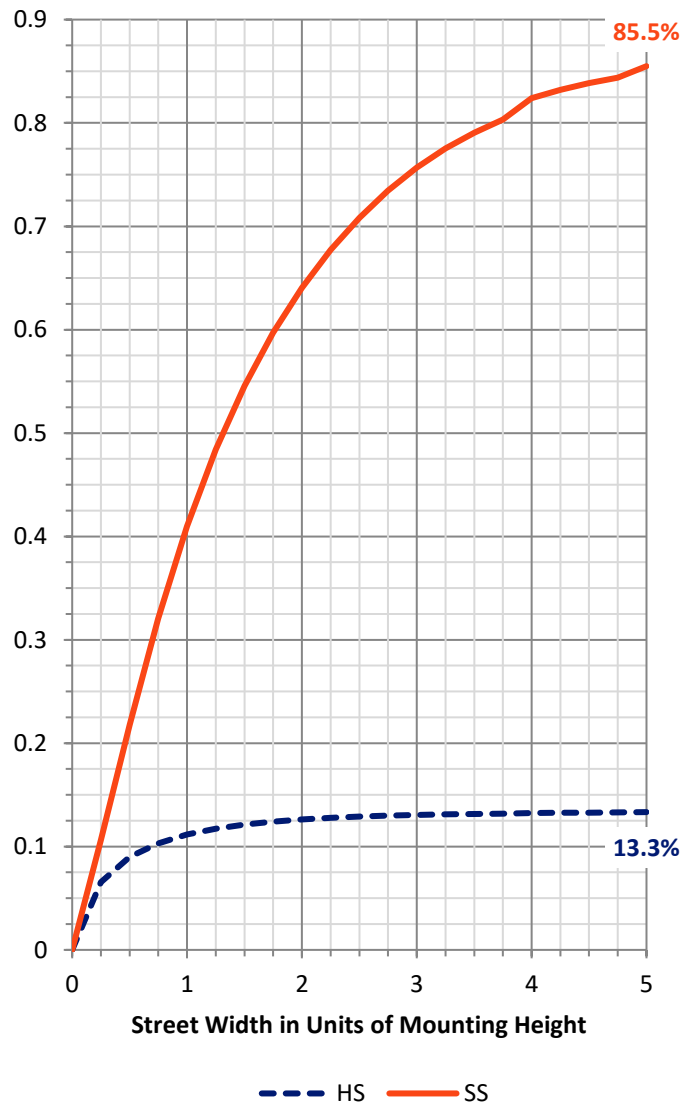
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2830.7	0.0	2830.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18226.3	0.0	18226.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	21057.0	0.0	21057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	1.5
10°-20°	828.1	3.9
20°-30°	1289.4	6.1
30°-40°	1891.3	9.0
40°-50°	2805.5	13.3
50°-60°	3974.9	18.9
60°-70°	5042.3	23.9
70°-80°	4197.3	19.9
80°-90°	705.2	3.3
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°	21057.0	100.0
0°-180°	21057.0	100.0



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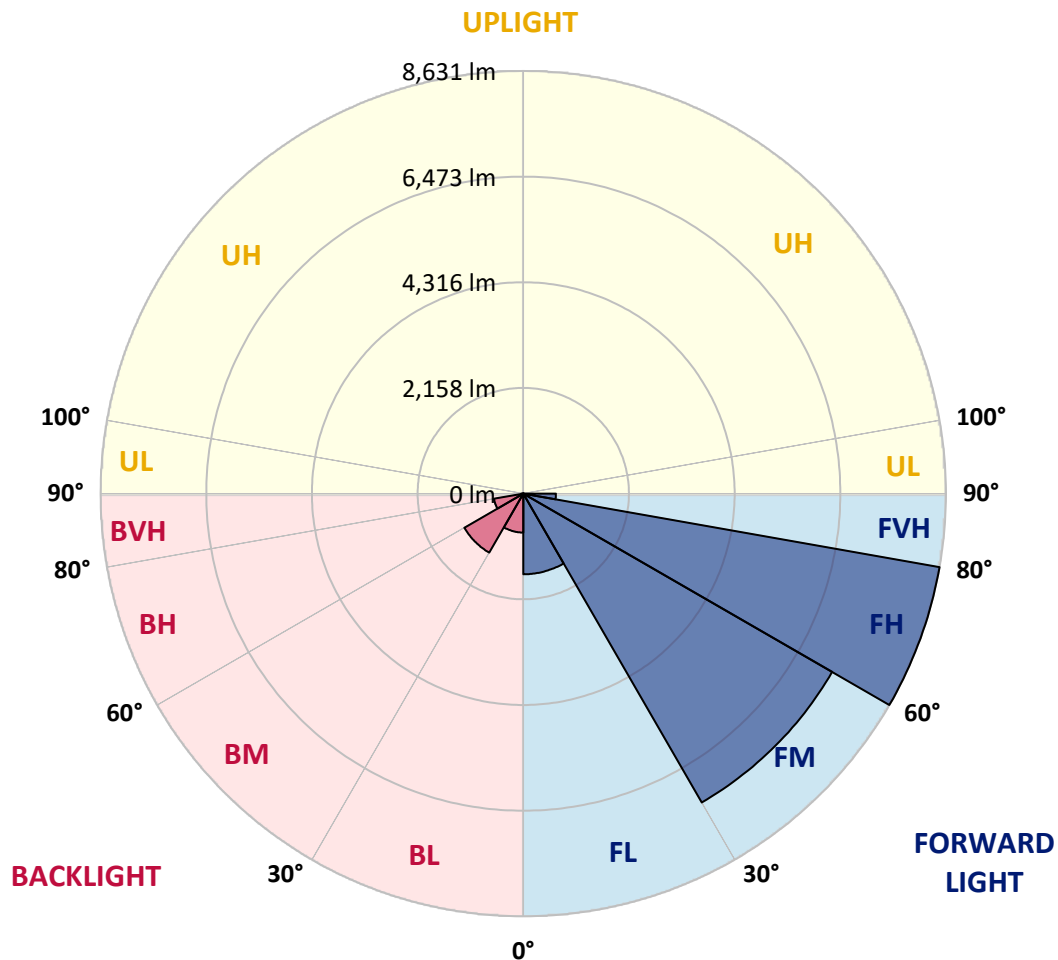
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.1	7.8			
FM	(30°-60°)	7282.1	34.6			
FH	(60°-80°)	8631.2	41.0			G4/12000
FVH	(80°-90°)	667.0	3.2			G4/750
BL	(0°-30°)	794.3	3.8	B2/1000		
BM	(30°-60°)	1389.7	6.6	B2/2500		
BH	(60°-80°)	608.4	2.9	B2/1000		G2/1000
BVH	(80°-90°)	38.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4
2.5°	3848.0	3867.0	3857.5	3844.4	3836.1	3827.8	3815.9	3781.4	3754.1	3724.3	3678.0
5°	3876.5	3888.4	3880.1	3863.5	3844.4	3836.1	3813.5	3768.3	3724.3	3674.4	3605.4
7.5°	3859.9	3864.6	3855.1	3834.9	3818.3	3802.8	3776.7	3726.7	3673.2	3612.6	3522.2
10°	3800.4	3818.3	3818.3	3801.6	3785.0	3776.7	3750.5	3702.9	3654.2	3585.2	3478.2
12.5°	3751.7	3770.7	3786.2	3781.4	3780.2	3780.2	3760.0	3724.3	3667.3	3601.9	3474.6
15°	3718.4	3741.0	3774.3	3793.3	3805.2	3808.8	3800.4	3769.5	3711.2	3635.1	3488.9
17.5°	3711.2	3738.6	3799.2	3840.9	3871.8	3870.6	3868.2	3825.4	3761.2	3682.7	3506.7
20°	3743.4	3779.0	3863.5	3928.9	3974.0	3965.7	3952.6	3896.8	3821.8	3733.8	3523.4
22.5°	3839.7	3876.5	3969.3	4040.6	4084.6	4084.6	4045.4	3971.7	3892.0	3793.3	3546.0
25°	3977.6	4018.0	4116.7	4189.3	4209.5	4194.0	4154.8	4065.6	3974.0	3878.9	3593.5
27.5°	4146.5	4195.2	4286.8	4347.4	4341.5	4329.6	4289.2	4175.0	4083.4	3996.6	3674.4
30°	4356.9	4392.6	4487.7	4502.0	4480.6	4478.2	4421.2	4307.0	4221.4	4154.8	3789.7
32.5°	4555.5	4587.6	4663.7	4669.7	4631.6	4636.4	4582.9	4478.2	4429.5	4405.7	3983.6
35°	4766.0	4782.6	4848.0	4840.9	4815.9	4812.4	4791.0	4691.1	4706.5	4749.4	4258.2
37.5°	4942.0	4975.3	5012.1	5018.1	5016.9	5028.8	5043.1	4995.5	5084.7	5219.1	4618.5
40°	5103.7	5132.2	5186.9	5206.0	5252.4	5276.1	5324.9	5326.1	5531.8	5753.0	5062.1
42.5°	5213.1	5261.9	5364.1	5398.6	5511.6	5582.9	5655.5	5732.8	6031.2	6315.4	5585.3
45°	5308.2	5372.5	5542.5	5649.5	5802.9	5889.7	6043.1	6204.8	6634.1	7006.3	6116.8
47.5°	5452.1	5509.2	5704.2	5893.3	6125.2	6225.1	6454.6	6695.9	7257.2	7665.1	6625.8
50°	5651.9	5686.4	5885.0	6192.9	6489.0	6617.5	6920.7	7269.1	7923.1	8315.5	7072.9
52.5°	5907.6	5921.8	6080.0	6490.2	6880.3	7039.6	7441.5	7848.2	8505.8	8880.4	7427.3
55°	6209.6	6185.8	6309.5	6805.3	7327.4	7535.5	7967.1	8434.4	9161.0	9337.0	7685.3
57.5°	6508.1	6471.2	6569.9	7188.2	7879.1	8130.0	8633.0	9038.5	9746.0	9763.9	7866.0
60°	6824.4	6797.0	6914.7	7637.7	8555.7	8853.0	9318.0	9665.2	10312.1	10061.2	7894.6
62.5°	7149.0	7105.0	7272.7	8143.1	9318.0	9587.9	10038.6	10331.1	10867.4	10171.7	7619.9
65°	7464.1	7443.9	7703.1	8743.6	10186.0	10492.8	10930.4	11129.0	11312.1	10005.3	6938.5
67.5°	7799.5	7839.9	8253.7	9545.1	11318.1	11703.3	12175.4	11988.7	11439.4	9216.9	5843.3
70°	8310.8	8336.9	8976.7	10595.1	12777.1	13242.1	13470.4	12294.3	10825.8	7719.8	4392.6
72.5°	8530.8	8646.1	9622.4	11697.4	14434.7	14719.0	13905.6	11613.0	9018.3	5244.0	2308.1
73°	8482.0	8619.9	9652.1	11865.1	14564.4	14862.8	13812.8	11262.2	8383.3	4516.3	1978.7
75°	7874.4	8044.4	9265.6	11724.7	14312.3	14133.9	12321.7	9598.6	5665.0	2053.6	901.4
77.5°	6213.2	6261.9	7341.6	9467.8	11270.5	10939.9	9221.6	5999.1	2314.0	763.4	511.3
80°	3116.7	3296.2	4138.1	5423.6	7536.7	7428.4	5820.8	2837.2	964.4	448.3	338.9
82.5°	1499.5	1626.7	2015.6	2644.6	4164.3	4065.6	2882.4	1550.6	612.4	261.6	199.8
85°	965.6	1060.7	1283.1	1261.7	1712.3	1635.0	1295.0	1173.7	362.7	136.7	139.1
87.5°	637.4	698.0	837.1	669.5	623.1	563.6	572.0	661.2	71.3	52.3	19.0
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°	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4	3699.4
2.5°	3658.9	3643.5	3592.3	3542.4	3494.8	3449.6	3419.9	3380.7	3354.5	3361.6	3372.3
5°	3567.4	3532.9	3442.5	3354.5	3271.3	3172.6	3092.9	3028.7	2979.9	2962.1	2958.5
7.5°	3471.0	3412.8	3283.2	3132.1	2990.6	2868.2	2726.7	2656.5	2574.4	2545.9	2536.4
10°	3412.8	3334.3	3152.4	2941.9	2729.0	2525.7	2372.3	2247.4	2134.5	2113.1	2102.4
12.5°	3396.1	3292.7	3047.7	2776.6	2493.6	2243.9	2016.8	1852.7	1743.3	1718.3	1681.4
15°	3386.6	3258.2	2950.2	2610.1	2251.0	1946.6	1707.6	1516.1	1416.2	1349.7	1350.8
17.5°	3378.3	3219.0	2840.8	2428.2	2041.7	1690.9	1426.9	1254.5	1163.0	1127.3	1123.7
20°	3366.4	3172.6	2714.8	2236.7	1802.7	1457.9	1218.8	1090.4	1028.6	998.9	997.7
22.5°	3361.6	3127.4	2591.1	2041.7	1591.0	1278.3	1080.9	990.5	951.3	931.1	931.1
25°	3373.5	3095.3	2461.5	1856.2	1403.2	1124.9	985.8	923.9	901.4	890.7	887.1
27.5°	3410.4	3081.0	2333.1	1670.7	1230.7	1020.3	921.6	878.8	862.1	853.8	855.0
30°	3480.6	3079.8	2207.0	1487.6	1102.3	940.6	870.4	840.7	827.6	822.9	821.7
32.5°	3593.5	3106.0	2083.3	1336.6	994.1	874.0	822.9	801.5	795.5	792.0	790.8
35°	3785.0	3179.7	1960.9	1198.6	910.9	814.5	777.7	767.0	758.7	762.2	763.4
37.5°	4043.0	3306.9	1844.3	1090.4	847.8	770.6	739.6	730.1	725.4	728.9	732.5
40°	4389.0	3490.1	1746.8	1003.6	802.7	733.7	706.3	698.0	693.3	699.2	700.4
42.5°	4770.8	3701.7	1666.0	935.8	765.8	702.8	676.6	667.1	663.5	667.1	668.3
45°	5163.2	3947.9	1624.3	887.1	734.9	680.2	652.8	642.1	633.8	631.4	635.0
47.5°	5549.6	4161.9	1623.2	857.4	709.9	660.0	630.2	618.3	607.6	601.7	600.5
50°	5864.7	4332.0	1651.7	844.3	688.5	637.4	607.6	595.8	581.5	569.6	572.0
52.5°	6102.6	4442.6	1664.8	838.3	676.6	613.6	583.9	573.2	556.5	541.1	541.1
55°	6256.0	4468.7	1632.7	832.4	667.1	588.6	556.5	547.0	530.3	514.9	514.9
57.5°	6308.3	4387.9	1517.3	818.1	657.6	567.2	529.2	520.8	507.8	492.3	489.9
60°	6187.0	4114.4	1315.2	775.3	638.6	544.6	499.4	495.9	491.1	478.0	476.8
62.5°	5719.7	3534.1	1095.2	719.4	606.5	520.8	472.1	478.0	481.6	474.5	473.3
65°	4942.0	2869.4	935.8	642.1	563.6	487.5	442.4	457.8	467.3	467.3	464.9
67.5°	4008.5	2203.4	788.4	575.5	510.1	442.4	409.1	420.9	428.1	425.7	431.7
70°	2849.1	1492.3	642.1	499.4	442.4	391.2	366.2	366.2	361.5	359.1	359.1
72.5°	1381.8	852.6	520.8	417.4	377.0	334.1	313.9	305.6	296.1	294.9	289.0
73°	1154.6	764.6	497.1	401.9	361.5	325.8	303.2	290.1	284.2	279.4	278.3
75°	702.8	580.3	415.0	338.9	308.0	280.6	260.4	248.5	242.6	239.0	237.8
77.5°	462.6	432.8	322.3	259.2	235.4	218.8	210.5	198.6	195.0	190.3	190.3
80°	344.8	330.6	230.7	183.1	168.9	154.6	152.2	149.8	140.3	134.4	132.0
82.5°	222.4	235.4	157.0	122.5	107.0	95.1	96.3	99.9	90.4	82.0	79.7
85°	158.2	170.0	95.1	55.9	45.2	39.2	44.0	39.2	40.4	32.1	26.2
87.5°	26.2	45.2	16.6	7.1	3.6	2.4	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	0.0

(END OF REPORT)