

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: P454518

Luminaire Tested: **GALN-SA5C-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25835 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

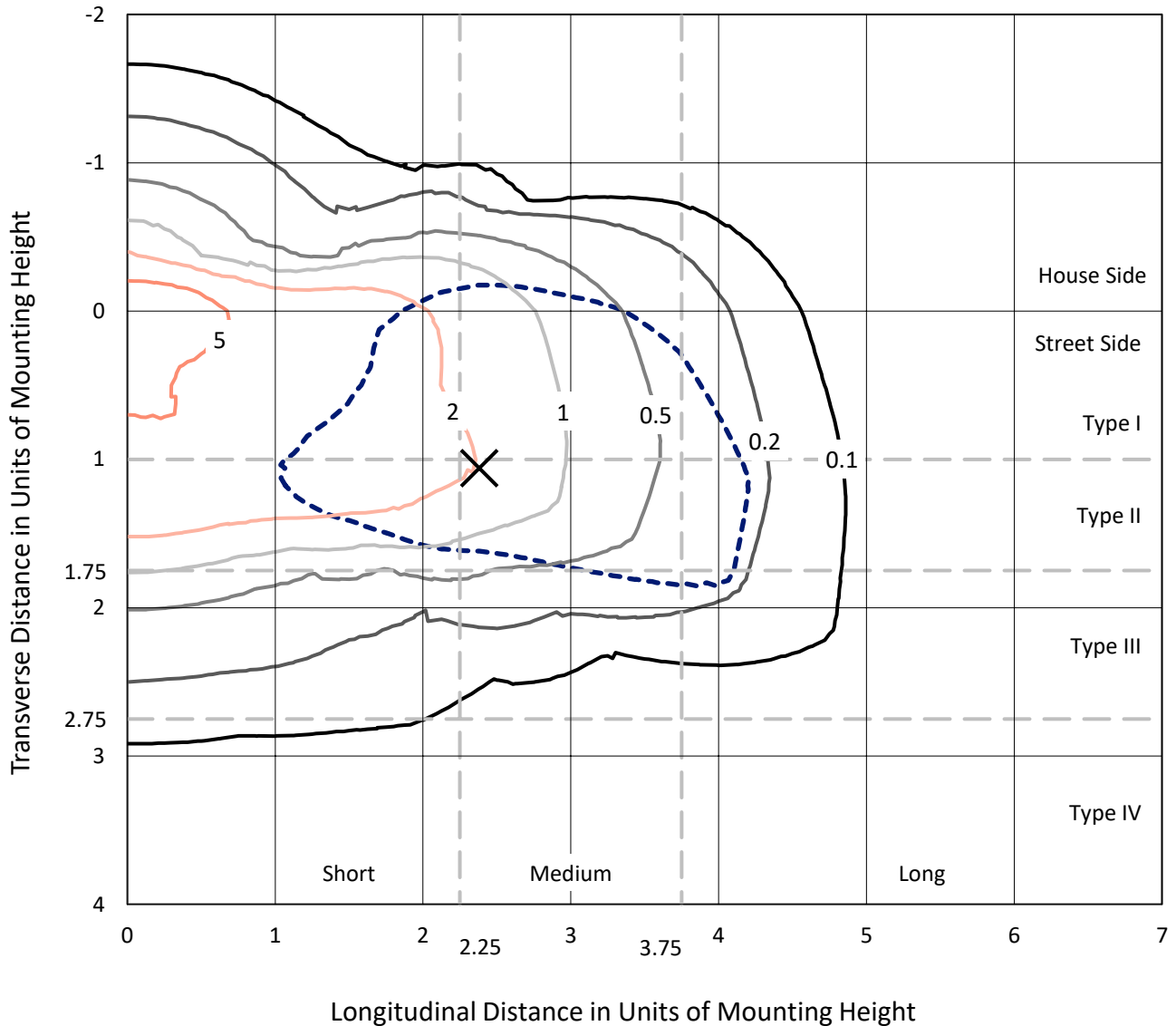
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

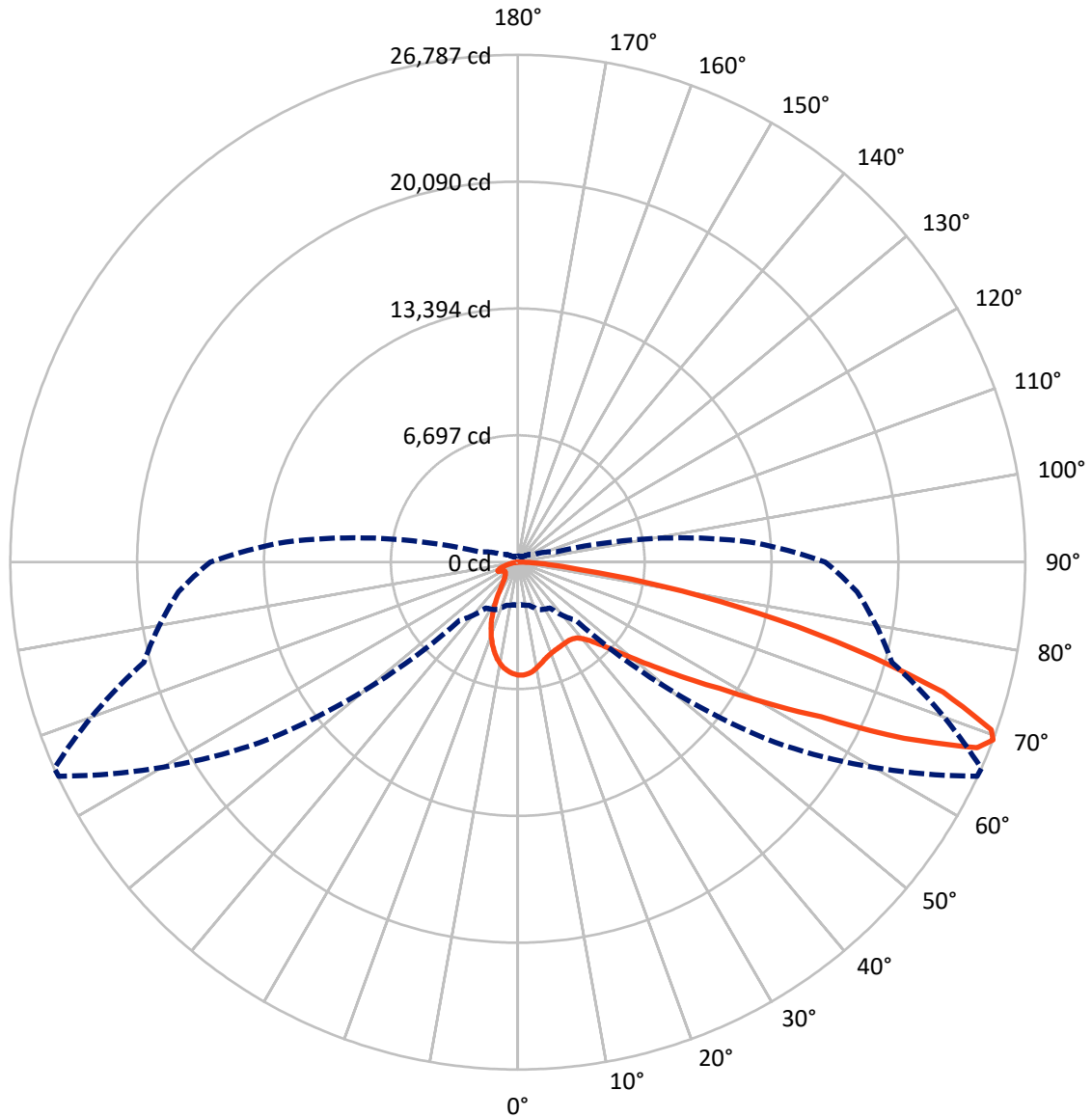
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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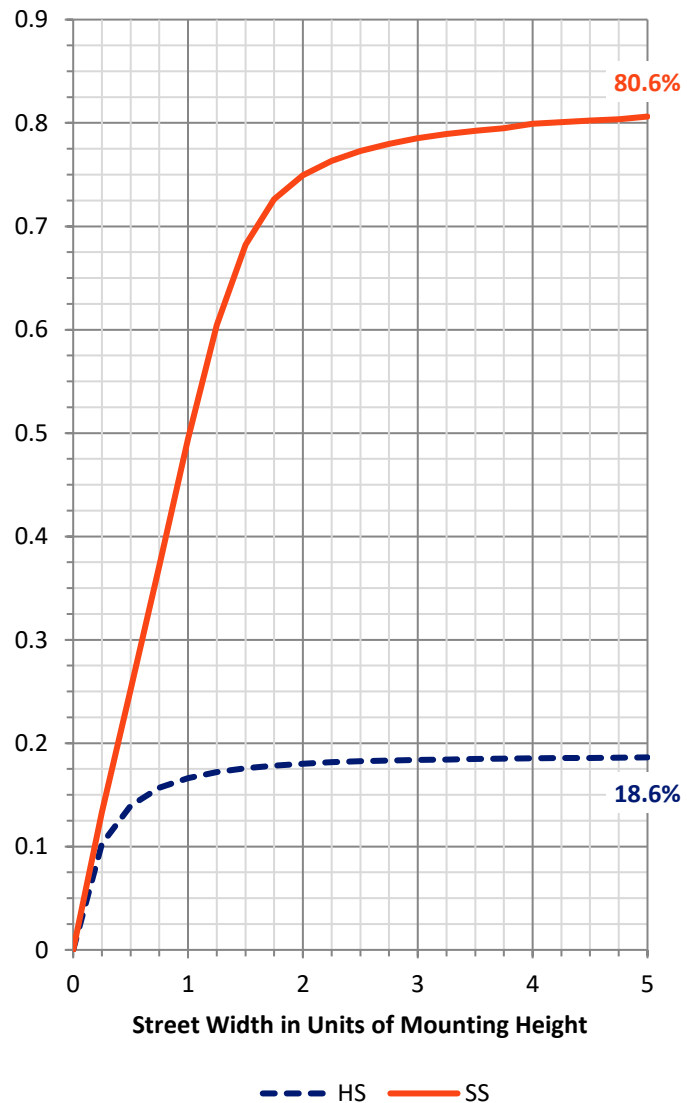
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4858.6	0.0	4858.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20976.4	0.0	20976.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	25835.0	0.0	25835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.1	2.0
10°-20°	1228.8	4.8
20°-30°	1672.9	6.5
30°-40°	2248.0	8.7
40°-50°	3356.7	13.0
50°-60°	5339.4	20.7
60°-70°	6567.2	25.4
70°-80°	4272.9	16.5
80°-90°	631.0	2.4
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°	25835.0	100.0
0°-180°	25835.0	100.0



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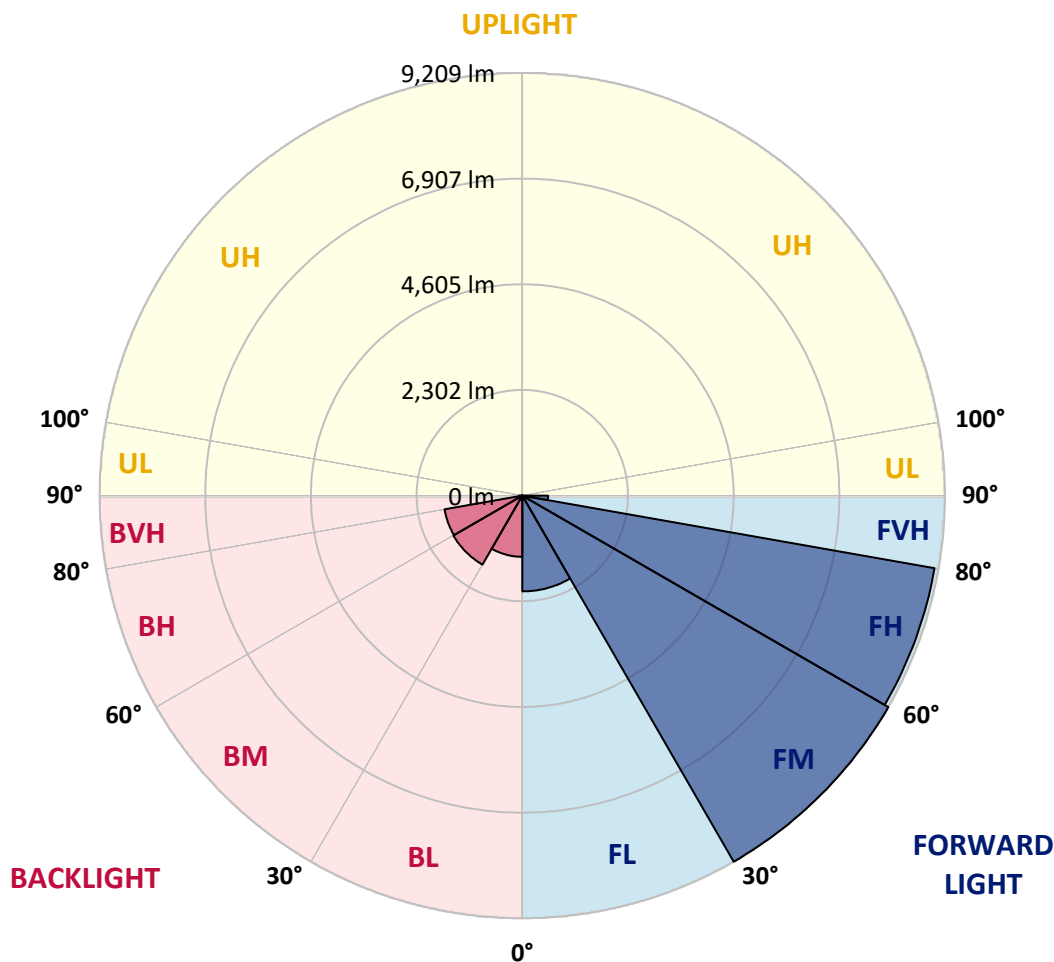
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2086.1	8.1			
FM	(30°-60°)	9209.4	35.6			
FH	(60°-80°)	9119.9	35.3			G4/12000
FVH	(80°-90°)	561.0	2.2			G4/750
BL	(0°-30°)	1333.7	5.2	B3/2500		
BM	(30°-60°)	1734.7	6.7	B2/2500		
BH	(60°-80°)	1720.1	6.7	B3/2500		G3/2500
BVH	(80°-90°)	70.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	5757.1	5780.0	5805.8	5834.4	5888.8	5918.8	5940.3	5964.6	5967.5	5980.3	5970.3
5°	5332.2	5359.4	5398.0	5452.4	5533.9	5661.3	5792.9	5900.2	5913.1	5973.2	5990.3
7.5°	4977.4	4993.1	5024.6	5111.9	5227.8	5369.4	5561.1	5778.6	5810.1	5953.1	6003.2
10°	4688.4	4704.1	4741.3	4831.5	4945.9	5123.3	5333.6	5619.8	5645.5	5891.6	6006.1
12.5°	4472.4	4486.7	4526.7	4615.4	4747.1	4913.0	5144.8	5448.1	5485.3	5810.1	5978.9
15°	4307.8	4335.0	4367.9	4440.9	4579.7	4739.9	4964.5	5290.7	5320.8	5724.2	5960.3
17.5°	4237.7	4250.6	4273.5	4340.7	4442.3	4599.7	4825.8	5167.7	5203.5	5664.1	5956.0
20°	4240.6	4253.5	4257.8	4295.0	4367.9	4503.8	4727.0	5070.4	5113.3	5611.2	5963.2
22.5°	4337.9	4339.3	4323.6	4310.7	4339.3	4452.3	4656.9	4997.4	5047.5	5588.3	5968.9
25°	4488.1	4513.9	4491.0	4430.9	4377.9	4432.3	4629.7	4957.4	5004.6	5555.4	5961.7
27.5°	4731.3	4735.6	4717.0	4635.5	4498.1	4458.1	4618.3	4927.3	4967.4	5531.1	5926.0
30°	5057.5	5044.6	5027.5	4937.3	4721.3	4556.8	4642.6	4900.1	4941.6	5495.3	5883.0
32.5°	5388.0	5428.1	5412.3	5306.5	5026.0	4748.5	4721.3	4897.3	4931.6	5468.1	5835.8
35°	5738.5	5757.1	5831.5	5777.2	5489.6	5059.0	4868.7	4941.6	4968.8	5469.6	5802.9
37.5°	6013.2	6063.3	6237.9	6285.1	6014.7	5469.6	5107.6	5067.5	5079.0	5539.7	5815.8
40°	6345.2	6431.0	6655.6	6848.8	6671.4	6003.2	5513.9	5300.7	5315.1	5708.5	5900.2
42.5°	6765.8	6825.9	7127.7	7389.6	7361.0	6708.6	6006.1	5682.7	5689.9	6044.7	6136.3
45°	7257.9	7343.8	7682.9	8076.3	8143.5	7506.9	6717.1	6260.7	6256.5	6566.9	6576.9
47.5°	7887.4	7940.4	8276.6	8705.8	8977.6	8509.8	7579.8	7090.5	7044.8	7328.0	7246.5
50°	8466.9	8549.9	8804.5	9273.8	9950.5	9684.4	8714.4	8166.4	8059.1	8323.8	8186.5
52.5°	8710.1	8797.4	9012.0	9594.3	10784.6	11203.8	10155.1	9449.8	9270.9	9474.1	9424.0
55°	8288.0	8401.1	8601.4	9309.6	11150.9	12956.4	12098.0	10933.4	10803.2	10715.9	10730.3
57.5°	7153.5	7260.8	7531.2	8312.4	10713.1	14228.3	14872.1	12840.5	12561.5	12159.5	12228.2
60°	5445.2	5512.5	5652.7	6518.3	9415.4	14558.8	18022.5	15251.3	15073.9	13597.4	13646.0
62.5°	3867.2	3943.0	4040.3	4472.4	6893.1	13627.4	20489.1	18617.7	17983.9	15086.7	15039.5
65°	3140.4	3088.9	3206.2	3407.9	4044.6	10561.4	21044.2	23290.4	22417.6	17048.2	16393.0
67.5°	2582.4	2528.0	2643.9	3003.0	3076.0	6130.5	19044.0	26323.5	26148.9	19181.4	17767.9
69°	2286.3	2257.6	2359.2	2768.4	2953.0	4353.6	16590.4	26745.5	26787.0	20439.0	17979.6
70°	2060.2	2071.7	2170.4	2649.7	2897.2	3589.6	14179.7	26163.2	26515.2	21067.1	17750.7
72.5°	1516.5	1540.9	1678.2	2194.7	2844.2	3046.0	8438.3	22852.6	23474.9	21104.3	16238.4
75°	1060.1	1048.7	1170.3	1652.5	2686.9	3018.8	4955.9	17673.4	18378.8	18241.4	13644.6
77.5°	693.9	712.5	809.8	1167.5	2260.5	2995.9	3230.5	12538.7	12996.5	12199.6	8070.6
80°	489.3	487.9	542.2	796.9	1676.8	2878.6	2645.4	7903.2	7787.3	4794.3	2393.6
82.5°	280.4	300.4	363.4	560.8	1121.7	2533.8	2433.6	3779.9	3450.8	1366.3	808.3
85°	155.9	163.1	216.0	339.1	655.3	1908.6	2124.6	1719.7	1622.4	570.8	347.7
87.5°	50.1	54.4	90.1	171.7	297.6	901.3	1203.2	794.0	732.5	206.0	140.2
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°	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0	5966.0
2.5°	5974.6	5991.8	5946.0	5901.6	5861.6	5805.8	5755.7	5714.2	5685.6	5681.3	5667.0
5°	5994.6	5996.1	5908.8	5791.5	5677.0	5551.1	5420.9	5327.9	5240.7	5192.0	5167.7
7.5°	6008.9	5996.1	5838.7	5648.4	5428.1	5199.2	4970.3	4787.1	4645.5	4589.7	4611.1
10°	6003.2	5963.2	5732.8	5428.1	5107.6	4765.7	4436.6	4179.1	3943.0	3821.4	3824.3
12.5°	5971.7	5905.9	5575.4	5180.6	4709.9	4252.0	3748.4	3400.8	3127.5	2965.8	2915.8
15°	5944.6	5830.1	5390.9	4844.4	4259.2	3605.4	2991.6	2562.4	2333.5	2206.1	2204.7
17.5°	5915.9	5757.1	5189.1	4488.1	3741.3	2900.0	2256.2	1928.6	1821.3	1834.2	1812.7
20°	5885.9	5671.3	4978.8	4091.8	3110.3	2163.2	1689.7	1556.6	1586.6	1645.3	1653.9
22.5°	5851.6	5579.7	4752.8	3655.4	2446.5	1628.1	1370.6	1350.6	1427.8	1519.4	1532.3
25°	5798.6	5465.3	4468.1	3199.0	1887.1	1312.0	1200.4	1214.7	1290.5	1367.7	1376.3
27.5°	5724.2	5323.6	4180.5	2629.6	1417.8	1126.0	1097.3	1115.9	1153.1	1200.4	1211.8
30°	5624.1	5163.4	3850.0	2137.5	1136.0	1033.0	1021.5	1031.5	1053.0	1073.0	1078.7
32.5°	5523.9	5008.9	3516.7	1636.7	1012.9	971.4	960.0	960.0	960.0	962.9	964.3
35°	5430.9	4862.9	3159.0	1274.8	948.6	922.8	907.1	889.9	887.0	877.0	877.0
37.5°	5379.4	4729.9	2778.4	1067.3	901.3	882.7	861.3	832.7	816.9	818.4	815.5
40°	5389.4	4642.6	2432.2	950.0	862.7	842.7	809.8	776.9	766.9	766.9	764.0
42.5°	5502.5	4614.0	2100.3	888.5	825.5	802.6	761.1	731.1	725.4	723.9	726.8
45°	5762.9	4684.1	1802.7	848.4	794.0	759.7	718.2	691.0	685.3	685.3	683.9
47.5°	6270.8	4911.6	1589.5	822.7	771.1	726.8	683.9	656.7	646.7	643.8	643.8
50°	7060.5	5405.2	1430.7	799.8	742.5	696.8	652.4	620.9	605.2	603.8	602.3
52.5°	8157.9	6174.9	1369.2	782.6	711.1	665.3	616.6	586.6	566.6	562.3	559.4
55°	9441.2	7249.4	1453.6	769.7	678.2	629.5	579.4	548.0	529.4	520.8	519.3
57.5°	10927.7	8539.8	1774.1	752.5	648.1	590.9	542.2	510.8	490.7	480.7	477.9
60°	12262.5	9866.1	2333.5	742.5	622.4	549.4	499.3	470.7	452.1	442.1	440.7
62.5°	13729.0	11130.8	3001.6	769.7	610.9	509.3	459.3	433.5	417.8	407.7	407.7
65°	15295.6	12397.0	3443.7	861.3	628.1	477.9	416.3	394.9	380.6	373.4	372.0
67.5°	16351.5	12834.8	2837.1	955.7	671.0	443.5	374.8	357.7	349.1	341.9	341.9
69°	16237.0	12281.1	2093.1	980.0	683.9	426.3	352.0	339.1	327.6	324.8	321.9
70°	15875.0	11650.2	1754.0	964.3	673.9	410.6	337.6	321.9	311.9	309.0	307.6
72.5°	14139.6	10103.6	1306.2	838.4	573.7	356.2	299.0	284.7	276.1	271.8	271.8
75°	11747.5	8258.0	1020.1	666.7	449.2	300.4	256.1	244.6	237.5	234.6	233.2
77.5°	6584.1	4611.1	732.5	522.2	340.5	243.2	214.6	204.6	197.4	194.6	194.6
80°	1834.2	1317.7	430.6	344.8	231.8	184.6	170.3	163.1	153.1	145.9	150.2
82.5°	691.0	570.8	246.1	207.5	147.4	123.0	118.7	113.0	108.7	98.7	98.7
85°	336.2	277.6	157.4	110.2	81.5	64.4	61.5	58.7	55.8	48.6	50.1
87.5°	115.9	123.0	68.7	40.1	24.3	15.7	12.9	7.2	7.2	7.2	7.2
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)