

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: P652555

Luminaire Tested: **GALN-SA8B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31965.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

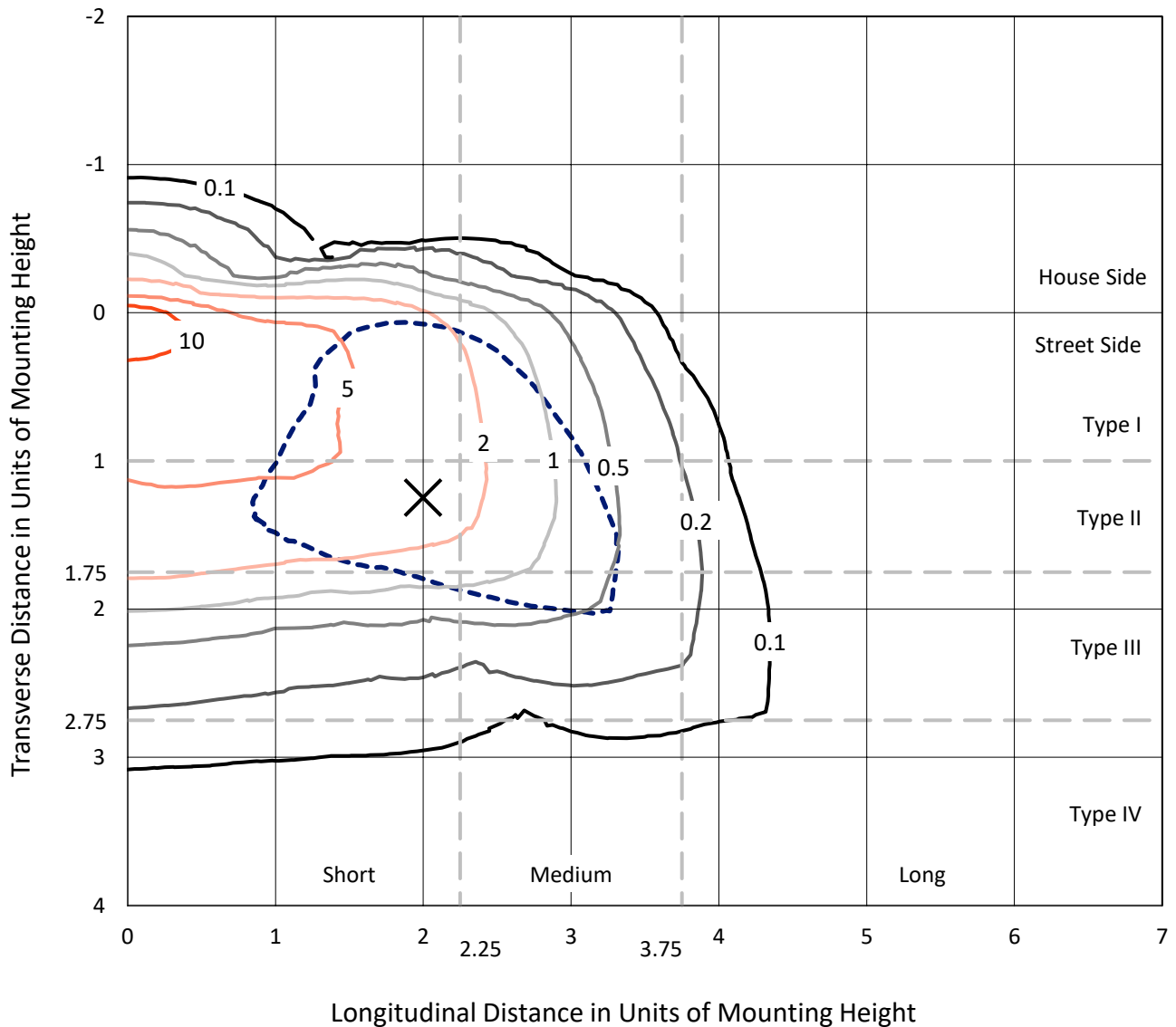
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652555
 CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

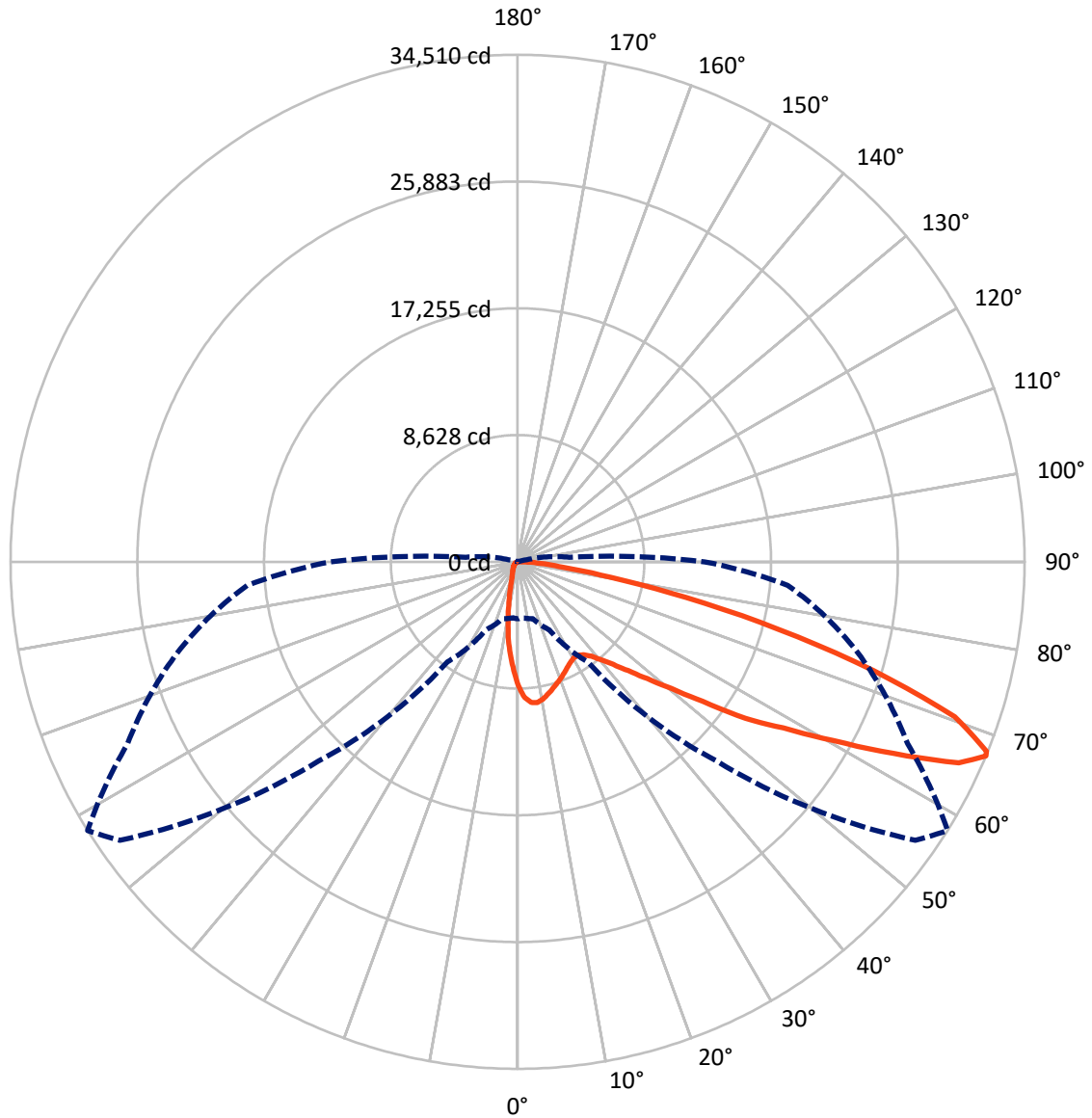
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

REPORT NUMBER: P652555
CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P652555
 CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

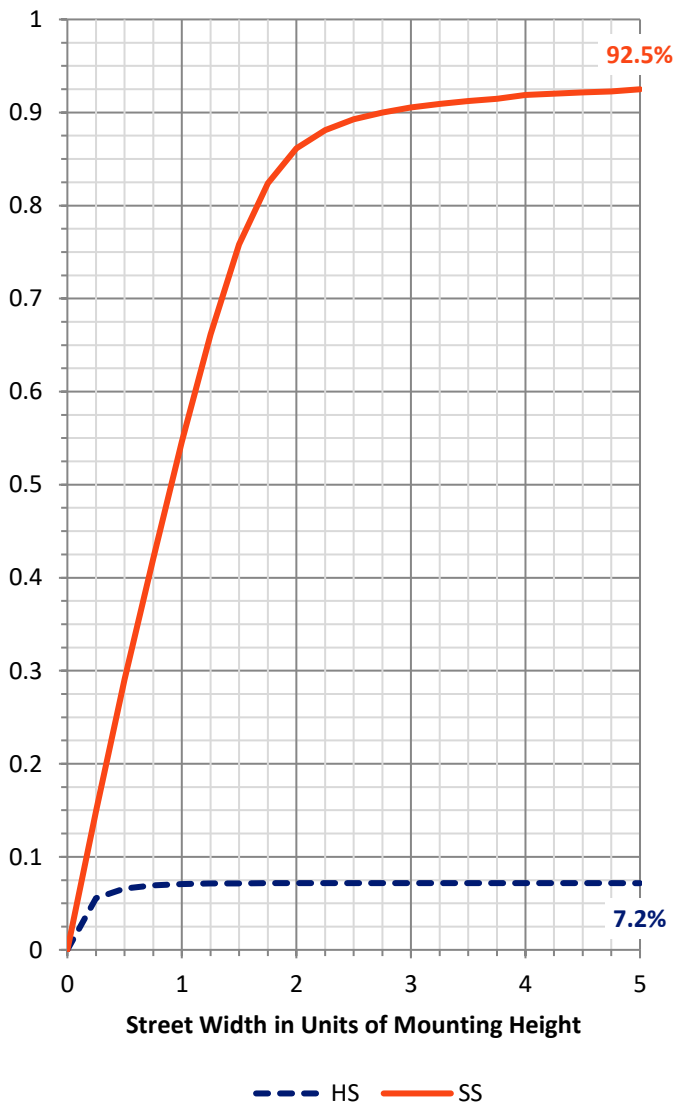
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2306.8	0.0	2306.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29658.7	0.0	29658.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	31965.6	0.0	31965.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.6	2.2
10°-20°	1485.1	4.6
20°-30°	2012.4	6.3
30°-40°	2791.1	8.7
40°-50°	4451.5	13.9
50°-60°	7694.8	24.1
60°-70°	8789.9	27.5
70°-80°	3664.6	11.5
80°-90°	388.5	1.2
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°	31965.6	100.0
0°-180°	31965.6	100.0

Coefficient of Utilization



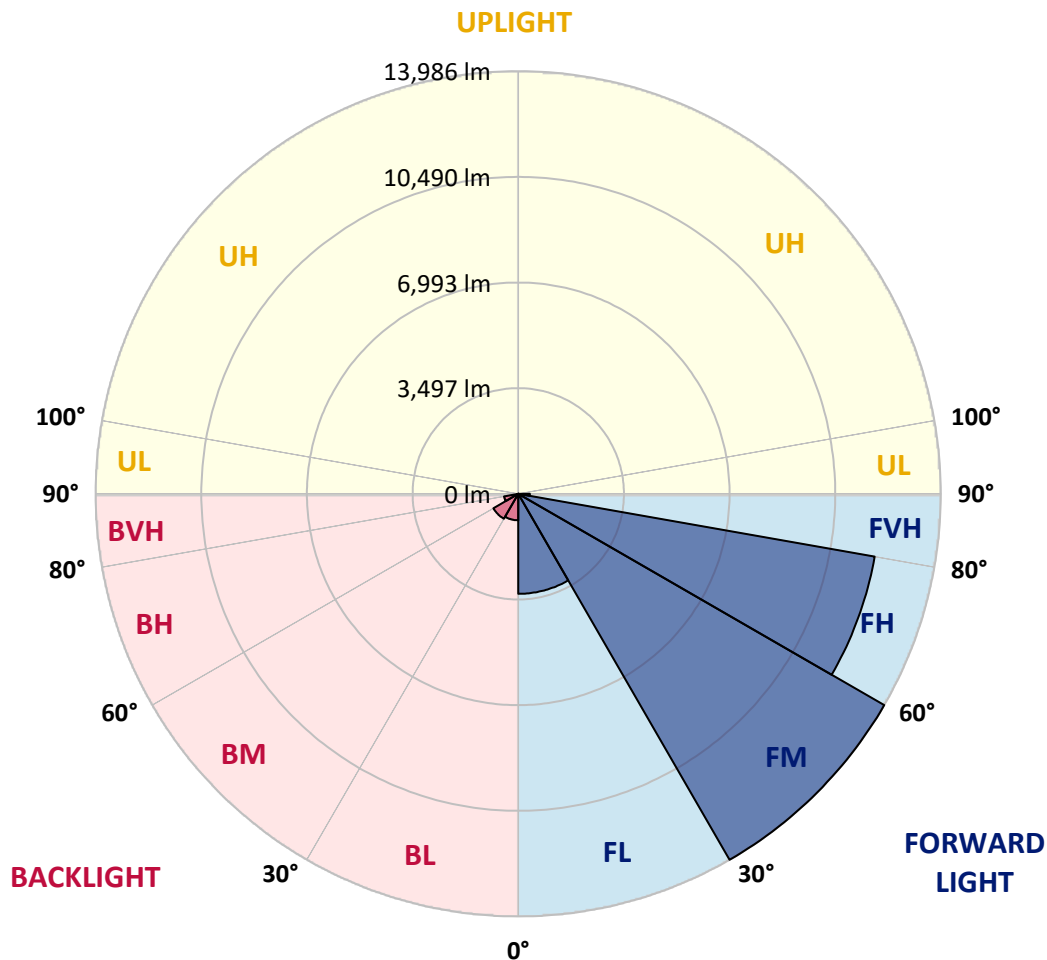
REPORT NUMBER: P652555
 CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3309.2	10.4			
FM (30°-60°)	13986.3	43.8			
FH (60°-80°)	11977.5	37.5			G4/12000
FVH (80°-90°)	385.7	1.2			G3/500
BL (0°-30°)	876.0	2.7	B2/1000		
BM (30°-60°)	951.2	3.0	B1/1000		
BH (60°-80°)	476.9	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P652555

CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7
2.5°	9834.5	9849.4	9793.9	9749.0	9633.7	9509.8	9345.3	9257.7	9108.2	8849.8	8563.5
5°	10065.2	10084.3	10075.9	10065.2	10020.3	9900.7	9691.3	9614.5	9394.4	8973.6	8456.7
7.5°	9552.5	9623.0	9631.6	9714.8	9793.9	9804.5	9725.5	9667.8	9465.0	8971.5	8266.6
10°	8873.2	8920.2	8988.6	9084.7	9274.8	9432.9	9509.8	9501.2	9383.7	8905.3	8044.4
12.5°	8187.6	8213.2	8317.8	8482.3	8715.1	8984.3	9189.4	9230.0	9232.1	8826.2	7858.6
15°	7598.0	7587.3	7668.5	7858.6	8185.4	8522.9	8890.3	8954.4	9056.9	8749.3	7685.6
17.5°	7093.9	7149.4	7162.2	7371.5	7672.8	8110.7	8578.5	8691.7	8896.7	8683.1	7542.4
20°	6782.0	6811.9	6839.7	6957.2	7228.5	7689.9	8285.8	8441.7	8747.2	8623.3	7382.2
22.5°	6690.2	6709.4	6685.9	6722.2	6914.4	7324.6	7967.5	8174.7	8604.1	8567.8	7251.9
25°	6760.6	6779.9	6724.3	6681.6	6747.8	7027.6	7659.9	7912.0	8488.7	8557.1	7153.7
27.5°	6931.5	6967.9	6891.0	6814.0	6775.6	6867.4	7418.5	7711.2	8409.7	8608.4	7108.8
30°	7198.5	7219.9	7162.2	7068.3	6980.6	6888.8	7292.6	7572.4	8388.3	8728.0	7104.6
32.5°	7489.0	7533.9	7501.9	7439.9	7326.7	7108.8	7328.8	7576.7	8439.6	8901.0	7158.0
35°	7847.9	7899.2	7929.1	7916.2	7771.0	7499.7	7559.6	7768.9	8576.3	9219.3	7303.2
37.5°	8200.3	8245.2	8414.0	8471.6	8343.5	8087.1	8008.1	8146.9	8877.5	9635.8	7566.0
40°	8604.1	8663.9	8901.0	9121.0	9059.1	8789.9	8644.6	8760.0	9338.9	10263.8	8063.7
42.5°	8990.7	9097.5	9458.5	9847.3	9905.0	9603.8	9507.7	9546.1	10022.4	11167.4	8757.8
45°	9539.7	9640.0	10105.7	10633.4	10904.7	10669.7	10571.4	10565.0	10960.2	12438.3	9883.6
47.5°	10332.2	10421.8	10970.8	11492.0	11974.8	12006.9	11821.0	11885.1	12139.2	13925.0	11263.5
50°	11304.0	11515.6	11876.5	12419.1	13064.2	13585.3	13643.0	13557.6	13775.5	15646.7	12921.0
52.5°	12716.0	12797.2	13128.3	13574.7	14330.9	15215.2	15900.9	15783.4	15715.0	17287.2	14595.7
55°	13769.1	13878.0	14392.8	15005.9	16114.5	17280.8	18767.5	18808.0	17945.1	18863.6	16234.1
57.5°	13450.8	13617.4	14397.1	15629.6	18066.9	20198.6	21305.1	21332.9	20008.6	20395.2	18083.9
60°	11816.7	11895.8	13013.0	14657.7	18233.5	23360.0	24904.4	24680.2	22108.3	22108.3	19718.0
62.5°	8379.8	8503.7	9409.4	11829.5	16466.9	24458.0	29215.0	28751.4	25000.5	23746.6	20692.0
65°	5355.2	5235.5	5835.7	7467.7	12267.4	22836.7	32968.0	32995.8	27721.9	24402.5	20160.2
67°	3879.1	3832.1	4005.1	5105.2	8317.8	19196.8	33047.1	34510.3	29285.5	23988.0	18459.9
67.5°	3548.0	3584.3	3710.3	4605.4	7557.4	17468.7	32688.2	34420.6	29637.9	23738.2	17844.7
70°	2689.3	2627.4	2764.0	3257.5	4530.6	11020.0	28119.2	31569.0	29200.0	21258.1	14258.2
72.5°	1978.0	1971.6	2161.7	2663.7	3488.2	5869.9	21108.6	25312.4	23855.6	16187.1	8977.9
75°	1335.0	1394.9	1698.1	2225.8	3161.4	3806.5	14390.7	18363.7	16560.9	9191.5	3669.8
77.5°	760.4	764.7	1093.6	1787.9	2838.8	3063.1	8527.2	11699.2	8766.4	3056.7	1089.4
80°	328.9	361.0	542.5	1298.8	2354.0	2712.8	4889.5	6429.5	3545.9	647.2	352.5
82.5°	121.8	143.1	239.3	798.9	1717.4	2234.3	2954.2	3069.6	1202.6	228.6	220.0
85°	0.0	4.3	87.5	373.8	895.0	997.5	1973.7	1819.9	531.8	108.9	143.1
87.5°	0.0	0.0	0.0	38.4	117.5	371.6	613.1	683.6	128.2	38.4	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652555

CATALOG NUMBER: GALN-SA8B-840-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7	8473.7
2.5°	8409.7	8270.8	7922.6	7574.5	7316.0	7100.3	6775.6	6598.3	6504.3	6365.4	6374.0
5°	8198.2	7916.2	7303.2	6668.8	6156.1	5656.3	5058.2	4816.8	4613.9	4498.6	4421.6
7.5°	7884.2	7467.7	6559.9	5714.0	4925.7	4052.1	3396.4	2958.5	2663.7	2554.7	2450.1
10°	7540.3	6987.1	5805.8	4633.2	3539.4	2638.0	2082.7	1681.1	1537.9	1405.6	1418.3
12.5°	7222.0	6549.2	5113.8	3656.9	2479.9	1676.8	1307.3	1142.8	1095.8	1080.9	1080.9
15°	6961.5	6130.6	4370.4	2749.1	1700.3	1204.7	1046.7	1001.8	984.7	980.4	980.4
17.5°	6683.8	5733.2	3699.6	2031.4	1236.8	1008.2	954.8	924.9	918.5	914.3	914.3
20°	6436.0	5333.8	3063.1	1512.4	999.7	907.9	873.6	854.5	848.0	843.8	845.9
22.5°	6201.0	4979.1	2465.1	1142.8	880.0	826.6	792.5	773.2	760.4	749.8	751.9
25°	5991.7	4637.4	1982.2	935.6	792.5	745.5	711.3	683.6	655.8	642.9	640.8
27.5°	5844.3	4338.4	1544.4	801.1	713.4	662.2	619.5	585.3	549.0	529.7	525.5
30°	5722.5	4035.0	1221.8	707.0	634.5	585.3	531.8	482.7	444.3	425.0	416.5
32.5°	5643.5	3746.7	963.4	630.2	568.2	508.4	448.6	399.5	356.8	337.5	333.2
35°	5630.7	3505.3	788.2	566.1	508.4	444.3	382.3	328.9	292.7	273.4	269.1
37.5°	5722.5	3319.4	660.0	514.8	459.3	388.8	320.4	271.3	239.3	224.3	222.2
40°	5968.2	3201.9	572.5	472.1	414.4	337.5	273.4	230.7	198.6	183.7	183.7
42.5°	6436.0	3206.2	514.8	431.5	369.5	288.4	232.9	192.3	164.5	151.6	147.4
45°	7166.5	3351.5	465.7	390.9	326.8	249.9	198.6	158.1	130.3	119.6	119.6
47.5°	8144.8	3639.8	422.9	350.3	288.4	213.6	168.8	128.2	104.7	94.0	94.0
50°	9424.3	4103.4	386.6	316.1	256.3	183.7	136.7	104.7	81.2	72.7	70.5
52.5°	10761.5	4675.9	343.9	286.2	220.0	155.9	111.1	81.2	62.0	55.5	53.4
55°	12237.6	5235.5	303.3	256.3	179.5	130.3	87.5	64.1	44.8	38.4	38.4
57.5°	13726.4	5784.5	254.2	213.6	141.0	96.1	68.4	47.0	29.9	23.5	23.5
60°	14986.6	5961.8	215.7	173.0	106.8	68.4	49.1	29.9	17.1	10.7	10.7
62.5°	15159.7	5363.6	181.6	132.5	76.9	47.0	25.7	17.1	6.4	4.3	4.3
65°	14219.8	4357.6	151.6	100.4	51.3	23.5	10.7	6.4	2.1	0.0	0.0
67°	12741.7	3533.0	123.9	74.8	36.3	15.0	6.4	2.1	0.0	0.0	0.0
67.5°	12363.5	3368.5	119.6	70.5	32.0	12.8	4.3	2.1	0.0	0.0	0.0
70°	9702.0	2522.7	85.4	42.7	19.3	8.6	0.0	0.0	0.0	0.0	0.0
72.5°	6030.1	1426.9	62.0	25.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	2279.2	499.8	42.7	17.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	709.2	190.2	25.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	239.3	72.7	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	147.4	29.9	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.8	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.3	2.1	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	0.0

(END OF REPORT)