

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: P455822

Luminaire Tested: **GALN-SA7A-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26069 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

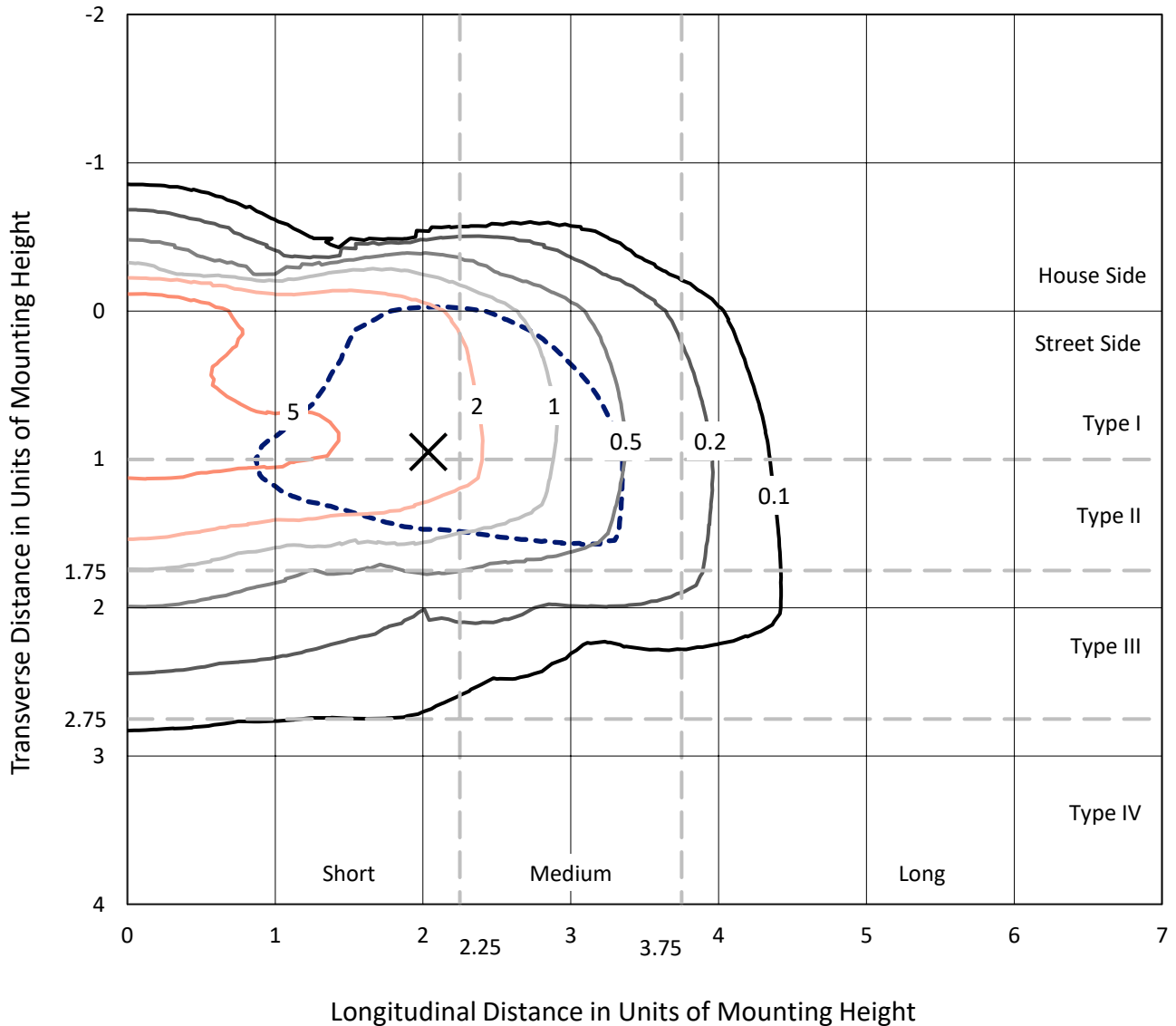
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

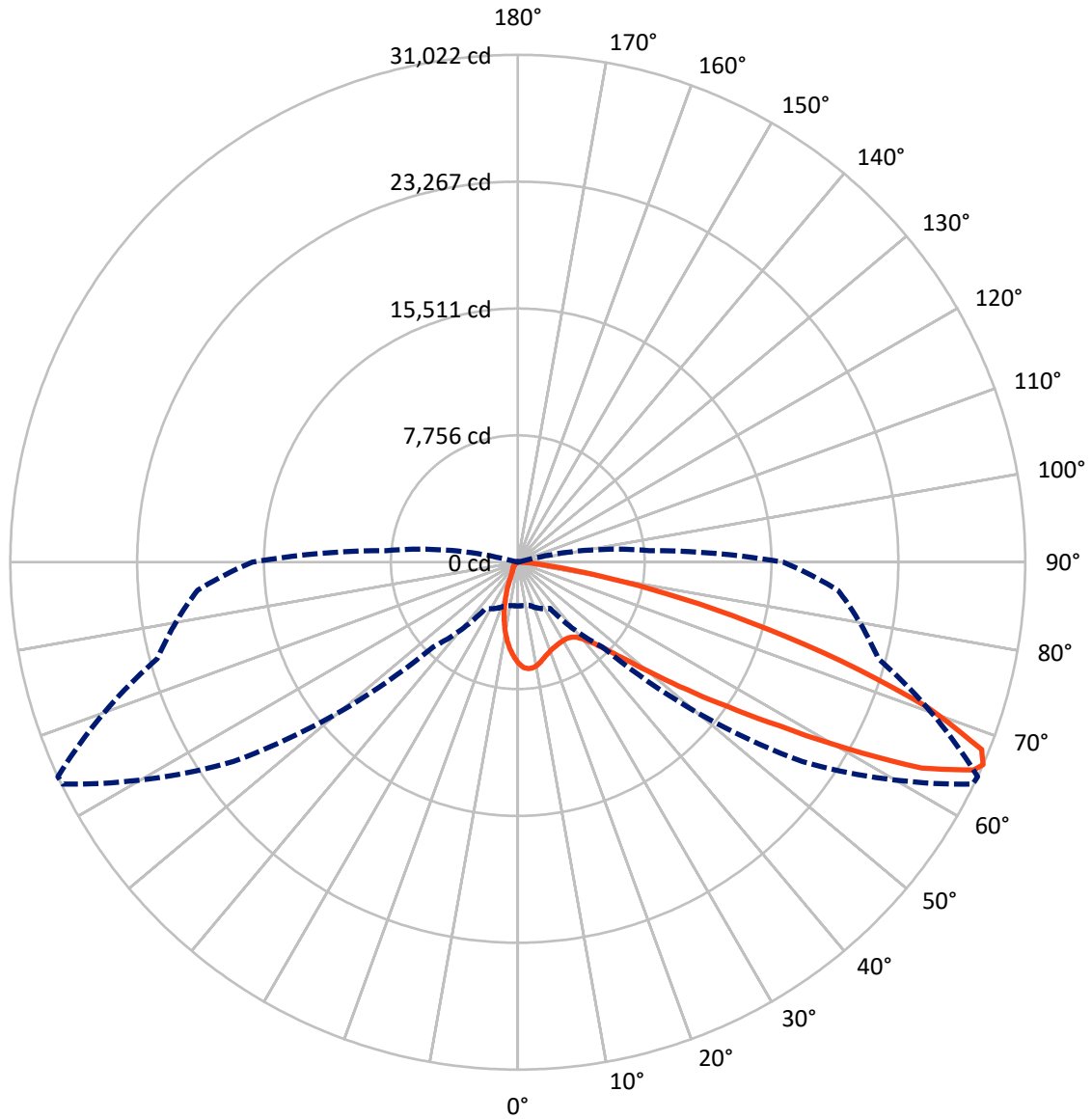
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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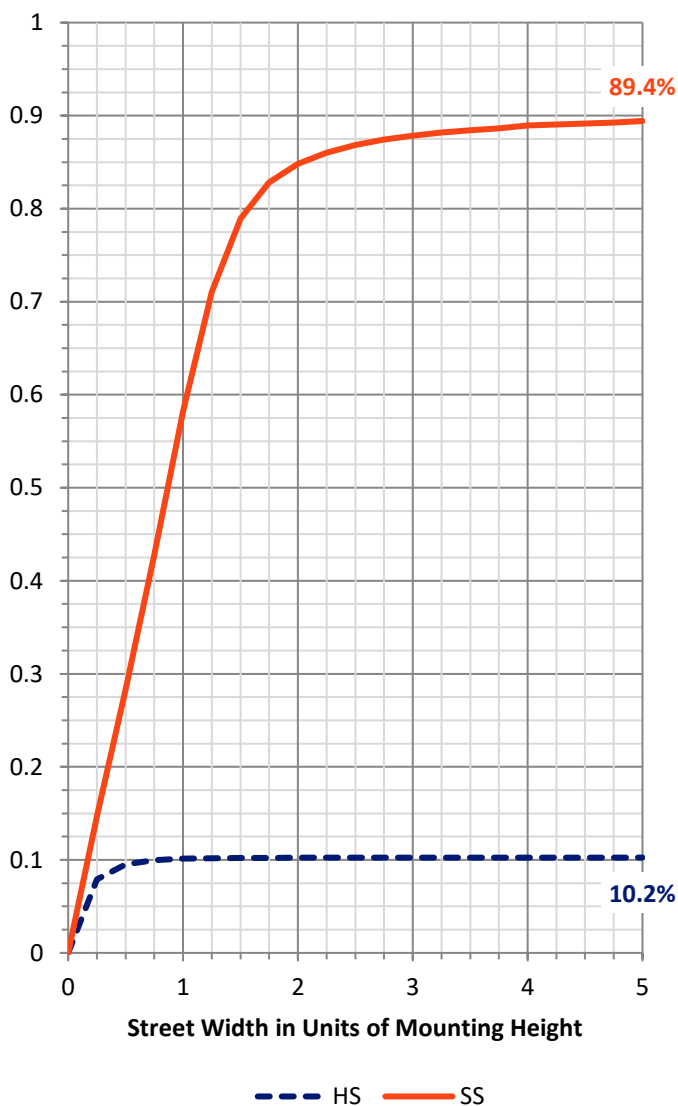
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.9	0.0	2695.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	23373.1	0.0	23373.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	26069.0	0.0	26069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	1.9
10°-20°	1101.6	4.2
20°-30°	1578.0	6.1
30°-40°	2304.9	8.8
40°-50°	3864.9	14.8
50°-60°	6449.8	24.7
60°-70°	6846.3	26.3
70°-80°	3100.7	11.9
80°-90°	317.3	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°	26069.0	100.0
0°-180°	26069.0	100.0

Coefficient of Utilization



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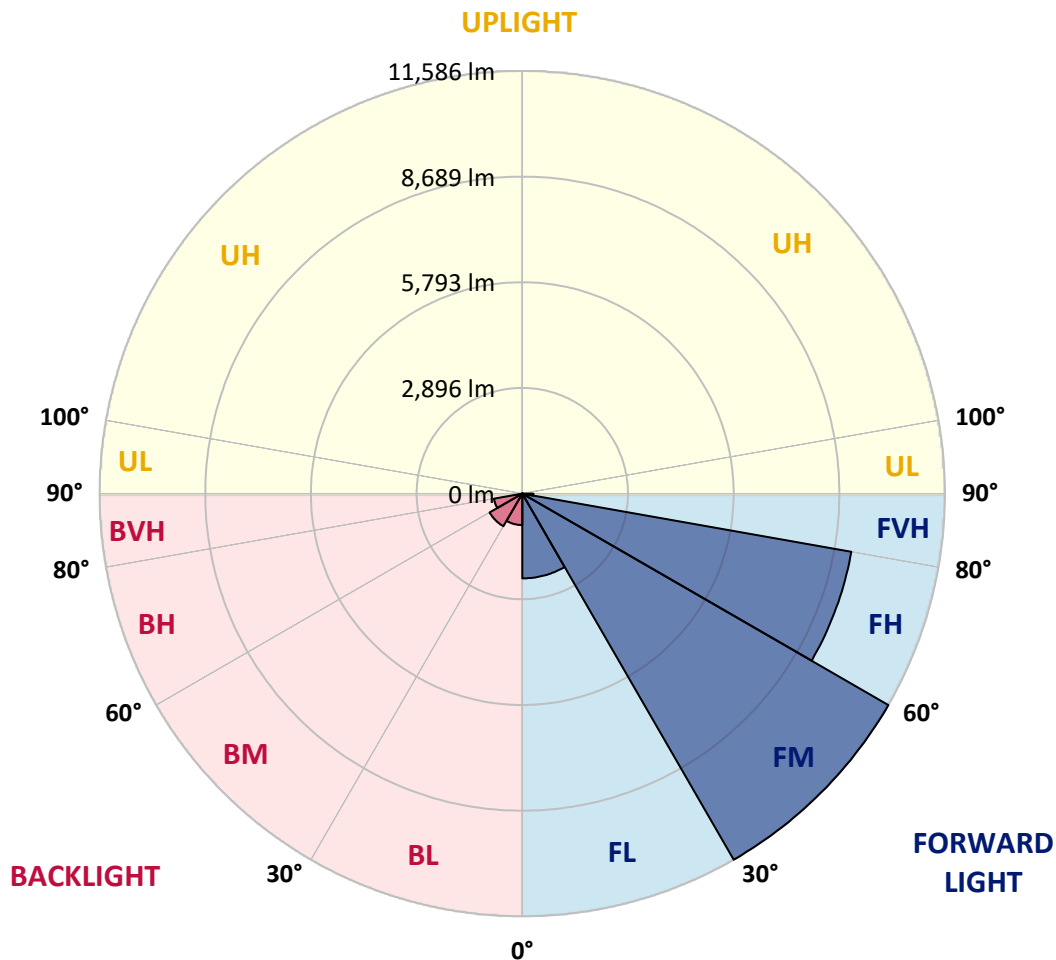
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.8	8.9			
FM (30°-60°)	11585.7	44.4			
FH (60°-80°)	9157.5	35.1			G4/12000
FVH (80°-90°)	307.2	1.2			G3/500
BL (0°-30°)	862.4	3.3	B2/1000		
BM (30°-60°)	1033.9	4.0	B2/2500		
BH (60°-80°)	789.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9
2.5°	6514.7	6521.7	6530.5	6542.9	6551.7	6525.3	6488.3	6446.0	6437.2	6347.4	6238.3
5°	6166.1	6176.6	6254.1	6296.4	6391.4	6477.7	6532.3	6539.3	6535.8	6451.3	6277.0
7.5°	5669.5	5699.5	5775.2	5849.1	6027.0	6190.7	6384.4	6520.0	6528.8	6505.9	6289.3
10°	5266.3	5285.7	5324.4	5470.6	5618.5	5868.5	6139.7	6395.0	6416.1	6507.7	6278.8
12.5°	4951.2	4979.3	5026.9	5139.6	5317.4	5553.3	5861.5	6204.8	6248.8	6474.2	6248.8
15°	4731.1	4745.2	4792.7	4903.6	5076.2	5294.5	5606.2	6005.8	6044.6	6430.2	6243.5
17.5°	4627.2	4643.0	4676.5	4764.5	4907.2	5109.6	5414.2	5845.6	5894.9	6402.0	6262.9
20°	4655.4	4669.5	4671.2	4717.0	4813.8	4984.6	5273.4	5696.0	5759.3	6384.4	6294.6
22.5°	4815.6	4817.4	4796.2	4775.1	4808.6	4931.8	5187.1	5600.9	5666.0	6380.9	6331.6
25°	5055.1	5060.3	5025.1	4951.2	4884.3	4947.6	5167.7	5539.3	5597.4	6372.1	6354.5
27.5°	5386.1	5384.3	5373.7	5250.5	5060.3	5018.1	5183.6	5505.8	5555.1	6347.4	6363.3
30°	5849.1	5835.1	5812.2	5673.1	5382.6	5188.9	5250.5	5484.7	5530.5	6312.2	6340.4
32.5°	6305.2	6358.0	6354.5	6222.4	5859.7	5493.5	5389.6	5512.8	5546.3	6289.3	6306.9
35°	6836.9	6835.2	6970.7	6921.4	6497.1	5882.6	5627.3	5606.2	5632.6	6305.2	6291.1
37.5°	7329.9	7375.7	7587.0	7638.0	7250.7	6431.9	5963.6	5806.9	5815.7	6412.6	6329.8
40°	7944.4	8032.4	8347.6	8518.4	8176.8	7247.2	6460.1	6174.9	6176.6	6676.7	6476.0
42.5°	8736.7	8875.8	9169.9	9455.1	9272.0	8212.0	7204.9	6757.7	6754.2	7141.5	6810.5
45°	9699.9	9796.7	10131.2	10583.7	10467.5	9559.0	8289.5	7660.9	7615.2	7903.9	7403.9
47.5°	10530.9	10663.0	11002.8	11518.7	12046.9	11203.5	9585.4	8902.2	8872.3	9117.1	8421.6
50°	10893.6	11009.8	11367.3	12090.9	13371.0	13362.2	11515.2	10714.0	10663.0	10795.0	9995.7
52.5°	10495.7	10604.9	10965.8	11867.3	13994.3	15992.7	14311.2	12987.1	12925.5	12756.5	11876.1
55°	9132.9	9222.7	9756.2	10791.5	13754.8	17746.4	18163.7	15795.5	15556.0	14899.3	14004.8
57.5°	7271.8	7226.0	7557.1	8759.6	12349.8	18334.5	22118.3	19294.1	18866.2	16751.6	15806.1
60°	5039.2	5180.1	5313.9	6106.2	9286.1	17315.0	24578.0	23692.4	23128.9	18573.9	17531.6
62.5°	3704.6	3797.9	3885.9	4252.2	5838.6	13825.2	25012.9	28210.4	27710.4	20509.0	19177.9
65°	2929.9	2936.9	2972.1	3333.1	3847.2	8990.3	22922.9	30758.2	30629.7	22371.8	19845.2
66°	2669.3	2671.0	2725.6	3113.0	3452.8	7321.1	21248.5	30951.9	31022.3	22819.1	19649.7
67.5°	2333.0	2325.9	2405.2	2797.8	3144.7	5278.7	18251.7	30166.6	30583.9	23162.4	18947.2
70°	1808.3	1799.5	1896.3	2347.1	2896.4	3521.5	12131.4	25902.1	26574.7	22459.9	16763.9
72.5°	1204.3	1211.4	1376.9	1852.3	2764.3	3100.6	7298.2	19704.3	20655.1	18547.5	13187.9
75°	702.5	714.9	903.3	1376.9	2399.9	2956.3	4130.7	14050.6	14658.1	12807.5	8215.6
77.5°	368.0	373.3	505.3	908.5	1840.0	2745.0	2752.0	8976.2	9261.4	6224.2	3252.1
80°	195.4	190.2	271.2	547.6	1266.0	2410.4	2232.6	4752.2	4940.6	1848.8	822.3
82.5°	74.0	81.0	144.4	359.2	748.3	1730.8	1922.7	2100.6	2035.4	406.7	345.1
85°	14.1	17.6	61.6	213.0	376.8	723.7	1417.4	1030.0	954.3	153.2	199.0
87.5°	1.8	3.5	17.6	51.1	54.6	244.7	419.1	285.2	246.5	56.3	82.8
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°	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9	6181.9
2.5°	6185.4	6137.9	5979.4	5822.7	5662.5	5518.1	5419.5	5259.3	5218.8	5160.7	5127.2
5°	6173.1	6062.2	5757.6	5424.8	5114.9	4780.4	4525.1	4278.6	4146.5	4079.6	4055.0
7.5°	6137.9	5961.8	5486.4	4965.3	4468.7	3968.7	3533.8	3202.8	2989.7	2843.6	2745.0
10°	6067.5	5824.5	5171.3	4454.6	3704.6	3044.3	2493.2	2074.1	1750.2	1648.0	1651.6
12.5°	5995.3	5671.3	4819.1	3887.7	2958.0	2125.2	1540.6	1209.6	1054.7	1003.6	993.1
15°	5928.4	5525.2	4474.0	3338.3	2202.7	1376.9	993.1	876.8	834.6	825.8	824.0
17.5°	5893.2	5389.6	4106.0	2709.8	1537.1	934.9	795.8	764.2	751.8	743.0	739.5
20°	5863.2	5271.6	3753.9	2121.7	1051.2	765.9	713.1	683.2	662.0	653.2	647.9
22.5°	5842.1	5150.1	3389.4	1642.8	804.7	679.6	632.1	593.4	563.4	552.9	545.8
25°	5810.4	5016.3	3021.4	1200.8	677.9	603.9	549.3	503.6	464.8	445.5	441.9
27.5°	5764.6	4864.9	2618.2	889.2	605.7	537.0	470.1	413.8	375.0	353.9	355.7
30°	5690.7	4706.4	2215.0	706.1	547.6	468.4	396.2	341.6	304.6	288.8	287.0
32.5°	5602.6	4514.5	1845.2	605.7	494.8	406.7	331.0	283.5	255.3	243.0	241.2
35°	5519.9	4320.8	1468.4	544.1	440.2	350.4	278.2	237.7	216.6	206.0	207.8
37.5°	5474.1	4148.3	1144.5	494.8	396.2	301.1	239.5	204.2	184.9	176.1	174.3
40°	5504.0	4007.4	910.3	450.7	346.9	258.8	206.0	176.1	156.7	144.4	144.4
42.5°	5644.9	3945.8	734.2	408.5	301.1	223.6	179.6	151.4	130.3	118.0	119.7
45°	6074.5	4010.9	614.5	369.8	258.8	193.7	154.9	125.0	105.6	96.8	95.1
47.5°	6787.6	4255.7	531.7	329.3	221.9	165.5	130.3	103.9	84.5	77.5	75.7
50°	8034.2	4761.0	470.1	288.8	188.4	140.9	107.4	82.8	66.9	59.9	59.9
52.5°	9749.2	5863.2	426.1	243.0	158.5	119.7	88.0	66.9	52.8	47.5	45.8
55°	11541.6	7025.3	403.2	204.2	132.1	98.6	70.4	52.8	40.5	35.2	33.5
57.5°	13265.3	7937.4	376.8	165.5	105.6	75.7	54.6	40.5	28.2	24.7	22.9
60°	14918.7	8675.1	320.5	132.1	82.8	54.6	40.5	28.2	19.4	15.8	15.8
62.5°	16397.7	9104.7	251.8	105.6	63.4	38.7	26.4	21.1	14.1	10.6	10.6
65°	16570.2	8546.6	190.2	81.0	45.8	24.7	15.8	15.8	10.6	7.0	7.0
66°	16223.4	8072.9	167.3	74.0	40.5	21.1	14.1	12.3	8.8	5.3	5.3
67.5°	15448.6	7264.8	144.4	63.4	33.5	15.8	10.6	10.6	7.0	3.5	3.5
70°	13348.1	5933.7	114.4	47.5	24.7	12.3	7.0	7.0	5.3	3.5	3.5
72.5°	10173.5	4430.0	93.3	35.2	17.6	8.8	5.3	5.3	5.3	3.5	3.5
75°	6136.1	2385.8	72.2	26.4	15.8	7.0	3.5	5.3	7.0	5.3	3.5
77.5°	2260.8	811.7	56.3	21.1	12.3	7.0	3.5	3.5	7.0	5.3	5.3
80°	554.6	211.3	40.5	17.6	12.3	7.0	3.5	3.5	7.0	7.0	7.0
82.5°	257.1	89.8	28.2	15.8	12.3	7.0	3.5	3.5	5.3	7.0	7.0
85°	147.9	42.3	22.9	17.6	12.3	7.0	3.5	3.5	5.3	7.0	7.0
87.5°	59.9	21.1	21.1	17.6	14.1	8.8	3.5	3.5	3.5	5.3	5.3
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)