

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: P456143

Luminaire Tested: **GALN-SA7B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456143
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-SA7B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 24101 lumens
Efficiency: N/A
Efficacy: 84.3 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

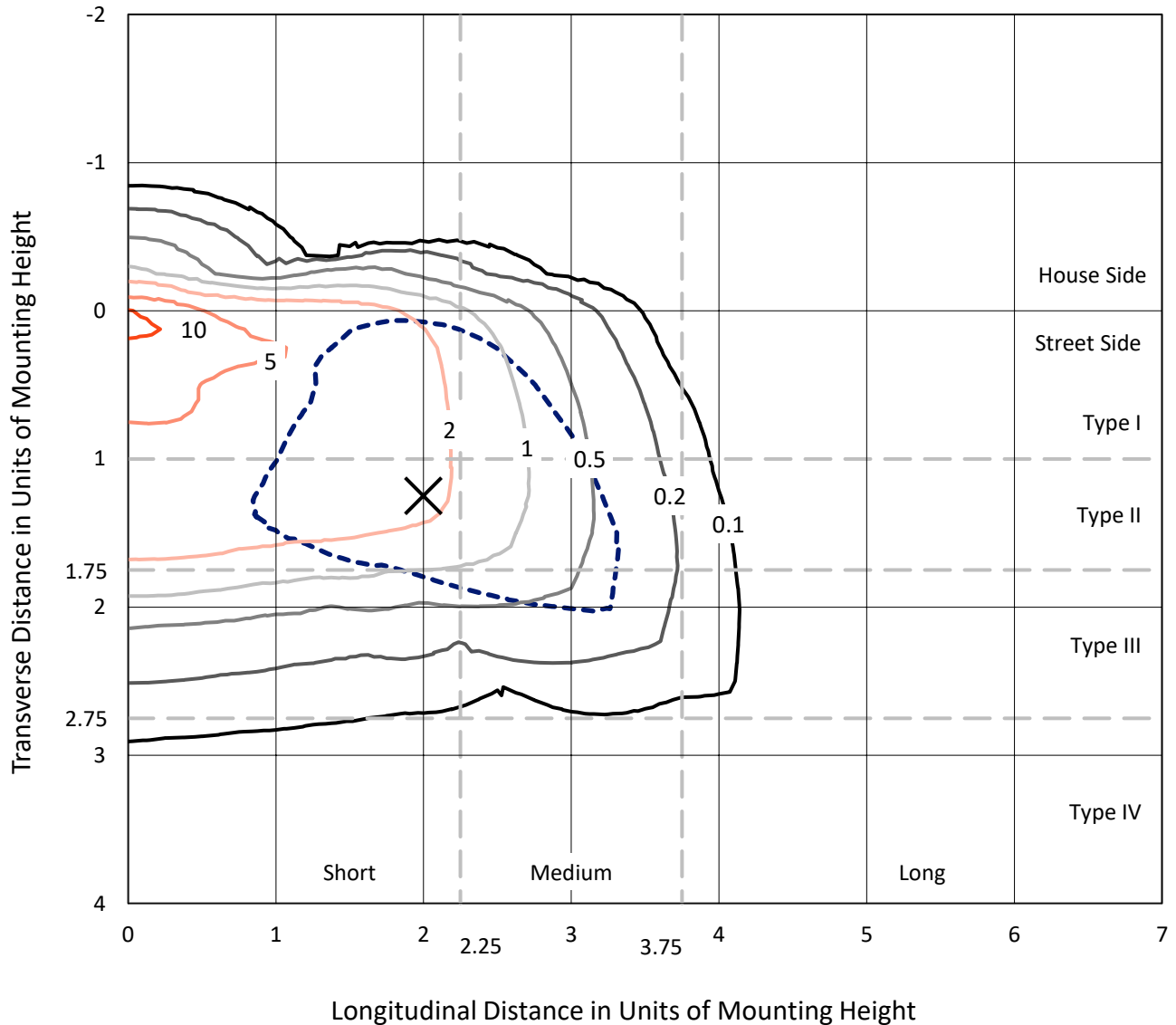
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

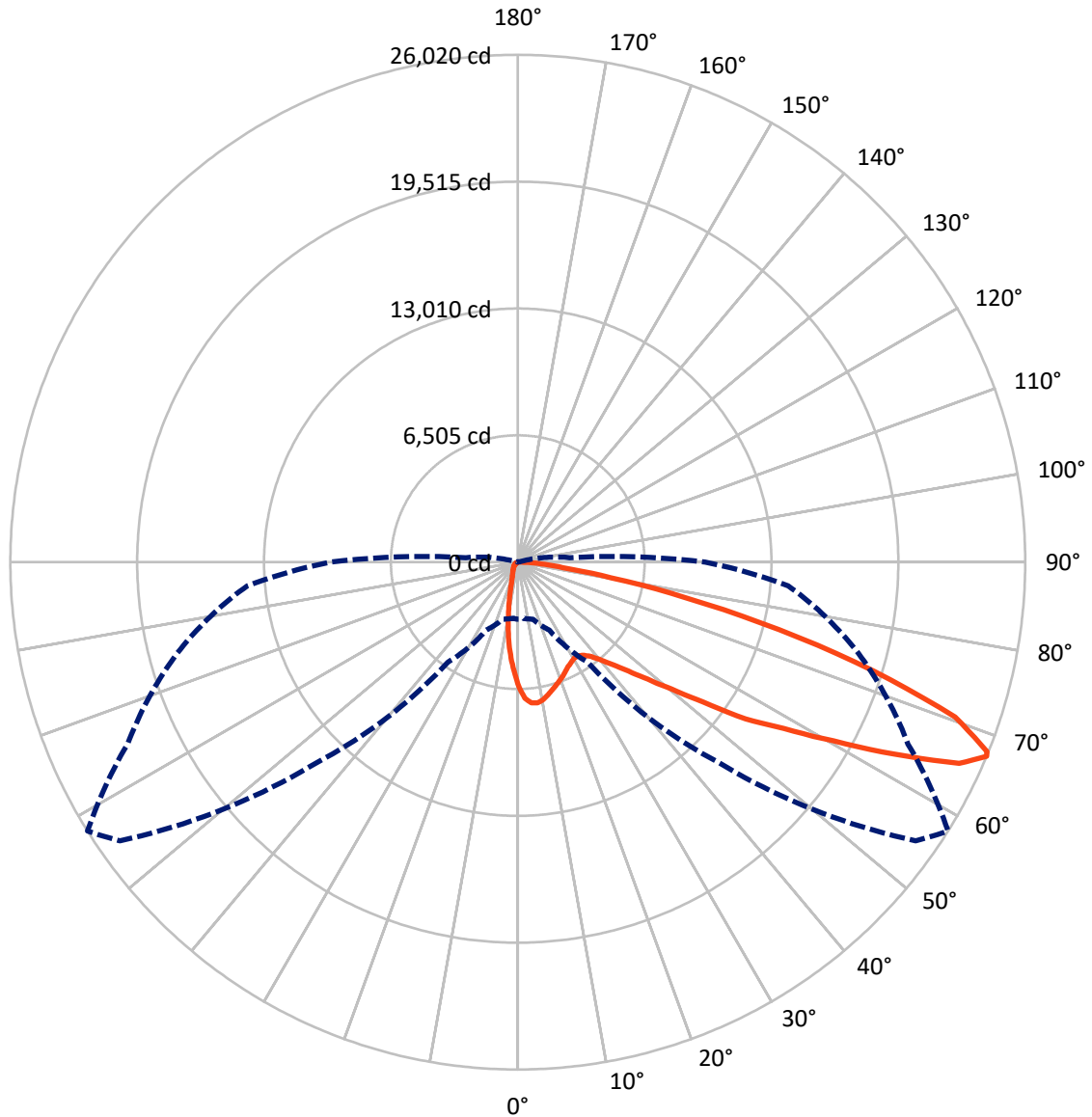
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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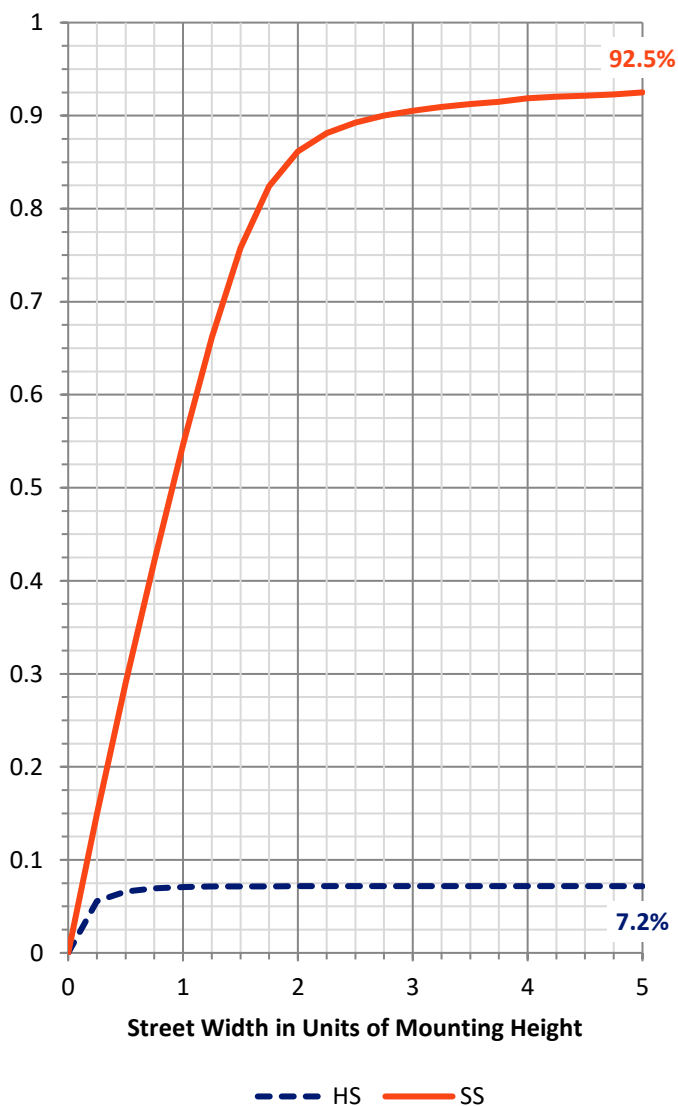
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.3	0.0	1739.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22361.7	0.0	22361.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24101.0	0.0	24101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	2.2
10°-20°	1119.7	4.6
20°-30°	1517.3	6.3
30°-40°	2104.4	8.7
40°-50°	3356.3	13.9
50°-60°	5801.6	24.1
60°-70°	6627.3	27.5
70°-80°	2763.0	11.5
80°-90°	292.9	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°	24101.0	100.0
0°-180°	24101.0	100.0

Coefficient of Utilization



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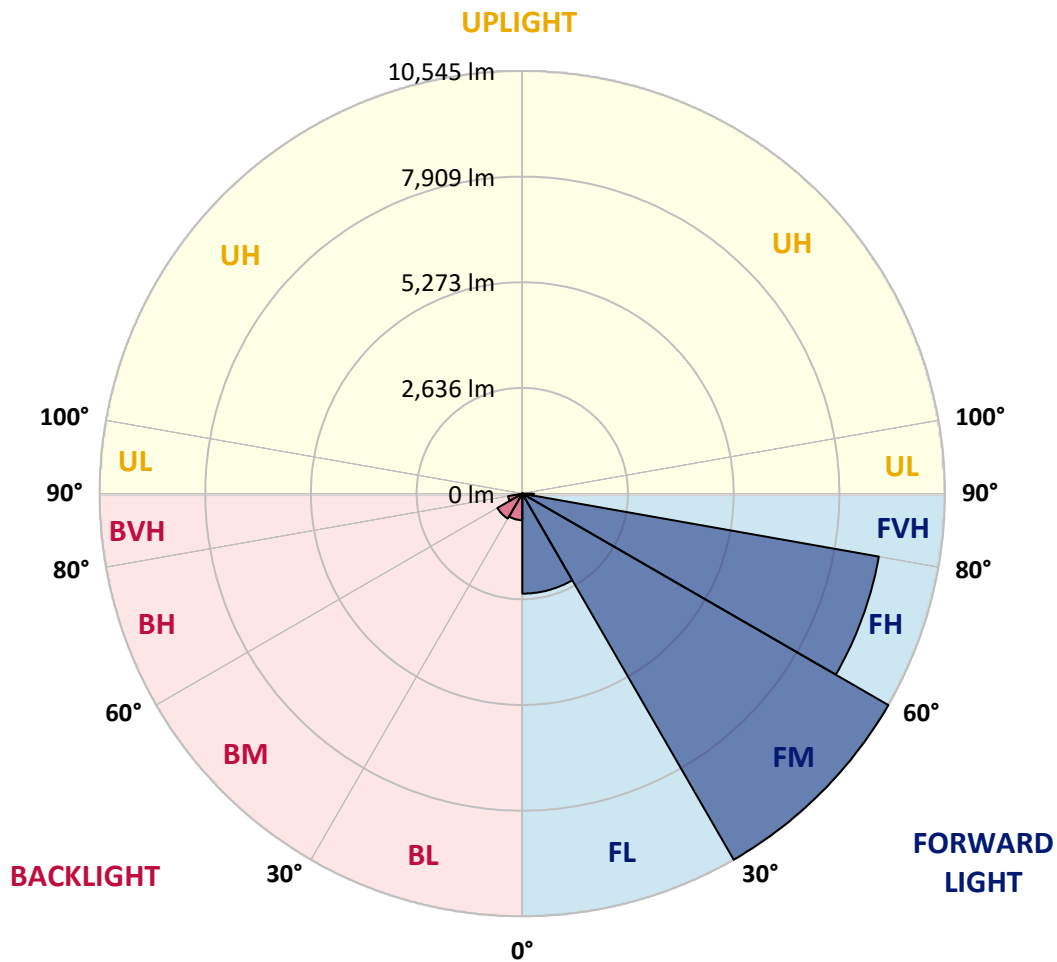
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.0	10.4			
FM (30°-60°)	10545.2	43.8			
FH (60°-80°)	9030.7	37.5			G4/12000
FVH (80°-90°)	290.8	1.2			G3/500
BL (0°-30°)	660.4	2.7	B2/1000		
BM (30°-60°)	717.1	3.0	B1/1000		
BH (60°-80°)	359.6	1.5	B1/500		G1/500
BVH (80°-90°)	2.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0
2.5°	7414.9	7426.1	7384.3	7350.4	7263.5	7170.1	7046.0	6980.0	6867.3	6672.4	6456.6
5°	7588.8	7603.3	7596.8	7588.8	7555.0	7464.8	7307.0	7249.0	7083.1	6765.8	6376.1
7.5°	7202.3	7255.4	7261.9	7324.7	7384.3	7392.3	7332.7	7289.2	7136.2	6764.2	6232.7
10°	6690.1	6725.6	6777.1	6849.6	6992.9	7112.1	7170.1	7163.6	7075.0	6714.3	6065.2
12.5°	6173.1	6192.5	6271.4	6395.4	6570.9	6773.9	6928.5	6959.1	6960.7	6654.7	5925.1
15°	5728.6	5720.6	5781.8	5925.1	6171.5	6426.0	6703.0	6751.3	6828.6	6596.7	5794.7
17.5°	5348.6	5390.4	5400.1	5557.9	5785.0	6115.2	6467.9	6553.2	6707.8	6546.8	5686.8
20°	5113.4	5136.0	5156.9	5245.5	5450.0	5797.9	6247.2	6364.8	6595.1	6501.7	5566.0
22.5°	5044.2	5058.7	5040.9	5068.3	5213.3	5522.5	6007.3	6163.5	6487.2	6459.8	5467.7
25°	5097.3	5111.8	5069.9	5037.7	5087.6	5298.6	5775.3	5965.4	6400.2	6451.8	5393.6
27.5°	5226.2	5253.5	5195.6	5137.6	5108.6	5177.8	5593.4	5814.0	6340.6	6490.4	5359.8
30°	5427.5	5443.6	5400.1	5329.2	5263.2	5193.9	5498.3	5709.3	6324.5	6580.6	5356.6
32.5°	5646.5	5680.3	5656.2	5609.5	5524.1	5359.8	5525.7	5712.5	6363.2	6711.1	5396.9
35°	5917.1	5955.7	5978.3	5968.6	5859.1	5654.6	5699.6	5857.5	6466.3	6951.0	5506.4
37.5°	6182.8	6216.6	6343.9	6387.3	6290.7	6097.4	6037.9	6142.5	6693.3	7265.1	5704.5
40°	6487.2	6532.3	6711.1	6876.9	6830.2	6627.3	6517.8	6604.8	7041.2	7738.6	6079.7
42.5°	6778.7	6859.2	7131.4	7424.5	7468.0	7240.9	7168.4	7197.4	7556.6	8419.8	6603.2
45°	7192.6	7268.3	7619.4	8017.2	8221.7	8044.6	7970.5	7965.7	8263.6	9378.1	7451.9
47.5°	7790.1	7857.8	8271.7	8664.6	9028.6	9052.8	8912.6	8961.0	9152.6	10499.0	8492.3
50°	8522.9	8682.3	8954.5	9363.6	9850.0	10242.9	10286.4	10222.0	10386.3	11797.1	9742.1
52.5°	9587.5	9648.7	9898.3	10234.9	10805.0	11471.8	11988.8	11900.2	11848.6	13034.0	11004.7
55°	10381.4	10463.6	10851.7	11313.9	12149.8	13029.1	14150.1	14180.7	13530.0	14222.5	12240.0
57.5°	10141.5	10267.1	10854.9	11784.2	13621.8	15229.1	16063.4	16084.3	15085.8	15377.3	13634.7
60°	8909.4	8969.0	9811.3	11051.4	13747.4	17612.7	18777.1	18608.0	16668.9	16668.9	14866.8
62.5°	6318.1	6411.5	7094.4	8919.1	12415.5	18440.5	22027.2	21677.7	18849.6	17904.2	15601.2
65°	4037.6	3947.4	4400.0	5630.4	9249.2	17218.1	24856.8	24877.8	20901.4	18398.6	15200.1
67°	2924.7	2889.3	3019.7	3849.2	6271.4	14473.8	24916.4	26019.6	22080.3	18086.2	13918.2
67.5°	2675.1	2702.5	2797.5	3472.3	5698.0	13170.9	24645.9	25952.0	22346.0	17897.8	13454.3
70°	2027.7	1980.9	2084.0	2456.1	3415.9	8308.7	21201.0	23802.0	22015.9	16027.9	10750.3
72.5°	1491.3	1486.5	1629.9	2008.3	2630.0	4425.7	15915.2	19084.7	17986.3	12204.6	6769.0
75°	1006.6	1051.7	1280.4	1678.2	2383.6	2870.0	10850.1	13845.7	12486.4	6930.1	2766.9
77.5°	573.3	576.6	824.6	1348.0	2140.4	2309.5	6429.2	8820.8	6609.6	2304.7	821.4
80°	248.0	272.2	409.1	979.2	1774.8	2045.4	3686.5	4847.7	2673.5	488.0	265.7
82.5°	91.8	107.9	180.4	602.3	1294.9	1684.6	2227.4	2314.3	906.7	172.3	165.9
85°	0.0	3.2	66.0	281.8	674.8	752.1	1488.1	1372.2	401.0	82.1	107.9
87.5°	0.0	0.0	0.0	29.0	88.6	280.2	462.2	515.4	96.6	29.0	25.8
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°	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0	6389.0
2.5°	6340.6	6236.0	5973.4	5710.9	5516.0	5353.4	5108.6	4974.9	4904.0	4799.4	4805.8
5°	6181.2	5968.6	5506.4	5028.1	4641.5	4264.7	3813.7	3631.7	3478.7	3391.8	3333.8
7.5°	5944.4	5630.4	4945.9	4308.2	3713.9	3055.2	2560.7	2230.6	2008.3	1926.2	1847.3
10°	5685.2	5268.0	4377.4	3493.2	2668.6	1989.0	1570.3	1267.5	1159.6	1059.7	1069.4
12.5°	5445.2	4937.9	3855.6	2757.2	1869.8	1264.3	985.6	861.6	826.2	814.9	814.9
15°	5248.7	4622.2	3295.1	2072.7	1282.0	908.3	789.2	755.3	742.5	739.2	739.2
17.5°	5039.3	4322.6	2789.4	1531.6	932.5	760.2	719.9	697.4	692.5	689.3	689.3
20°	4852.5	4021.5	2309.5	1140.3	753.7	684.5	658.7	644.2	639.4	636.2	637.8
22.5°	4675.4	3754.1	1858.5	861.6	663.5	623.3	597.5	583.0	573.3	565.3	566.9
25°	4517.5	3496.5	1494.6	705.4	597.5	562.1	536.3	515.4	494.4	484.8	483.2
27.5°	4406.4	3271.0	1164.4	603.9	537.9	499.3	467.1	441.3	413.9	399.4	396.2
30°	4314.6	3042.3	921.2	533.1	478.3	441.3	401.0	364.0	335.0	320.5	314.1
32.5°	4255.0	2824.9	726.3	475.1	428.4	383.3	338.2	301.2	269.0	254.5	251.2
35°	4245.3	2642.9	594.3	426.8	383.3	335.0	288.3	248.0	220.6	206.1	202.9
37.5°	4314.6	2502.8	497.7	388.1	346.3	293.1	241.6	204.5	180.4	169.1	167.5
40°	4499.8	2414.2	431.6	355.9	312.4	254.5	206.1	173.9	149.8	138.5	138.5
42.5°	4852.5	2417.4	388.1	325.3	278.6	217.4	175.5	144.9	124.0	114.3	111.1
45°	5403.3	2526.9	351.1	294.7	246.4	188.4	149.8	119.2	98.2	90.2	90.2
47.5°	6140.9	2744.3	318.9	264.1	217.4	161.1	127.2	96.6	78.9	70.9	70.9
50°	7105.6	3093.8	291.5	238.4	193.3	138.5	103.1	78.9	61.2	54.8	53.1
52.5°	8113.8	3525.4	259.3	215.8	165.9	117.6	83.7	61.2	46.7	41.9	40.3
55°	9226.7	3947.4	228.7	193.3	135.3	98.2	66.0	48.3	33.8	29.0	29.0
57.5°	10349.2	4361.3	191.7	161.1	106.3	72.5	51.5	35.4	22.5	17.7	17.7
60°	11299.4	4495.0	162.7	130.5	80.5	51.5	37.0	22.5	12.9	8.1	8.1
62.5°	11429.9	4044.0	136.9	99.9	58.0	35.4	19.3	12.9	4.8	3.2	3.2
65°	10721.3	3285.5	114.3	75.7	38.7	17.7	8.1	4.8	1.6	0.0	0.0
67°	9606.8	2663.8	93.4	56.4	27.4	11.3	4.8	1.6	0.0	0.0	0.0
67.5°	9321.7	2539.8	90.2	53.1	24.2	9.7	3.2	1.6	0.0	0.0	0.0
70°	7315.0	1902.0	64.4	32.2	14.5	6.4	0.0	0.0	0.0	0.0	0.0
72.5°	4546.5	1075.8	46.7	19.3	9.7	3.2	0.0	0.0	0.0	0.0	0.0
75°	1718.4	376.9	32.2	12.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	534.7	143.3	19.3	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	180.4	54.8	12.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	111.1	22.5	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	69.3	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.2	1.6	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)