

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: P454723

Luminaire Tested: **GALN-SA5D-760-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38398 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

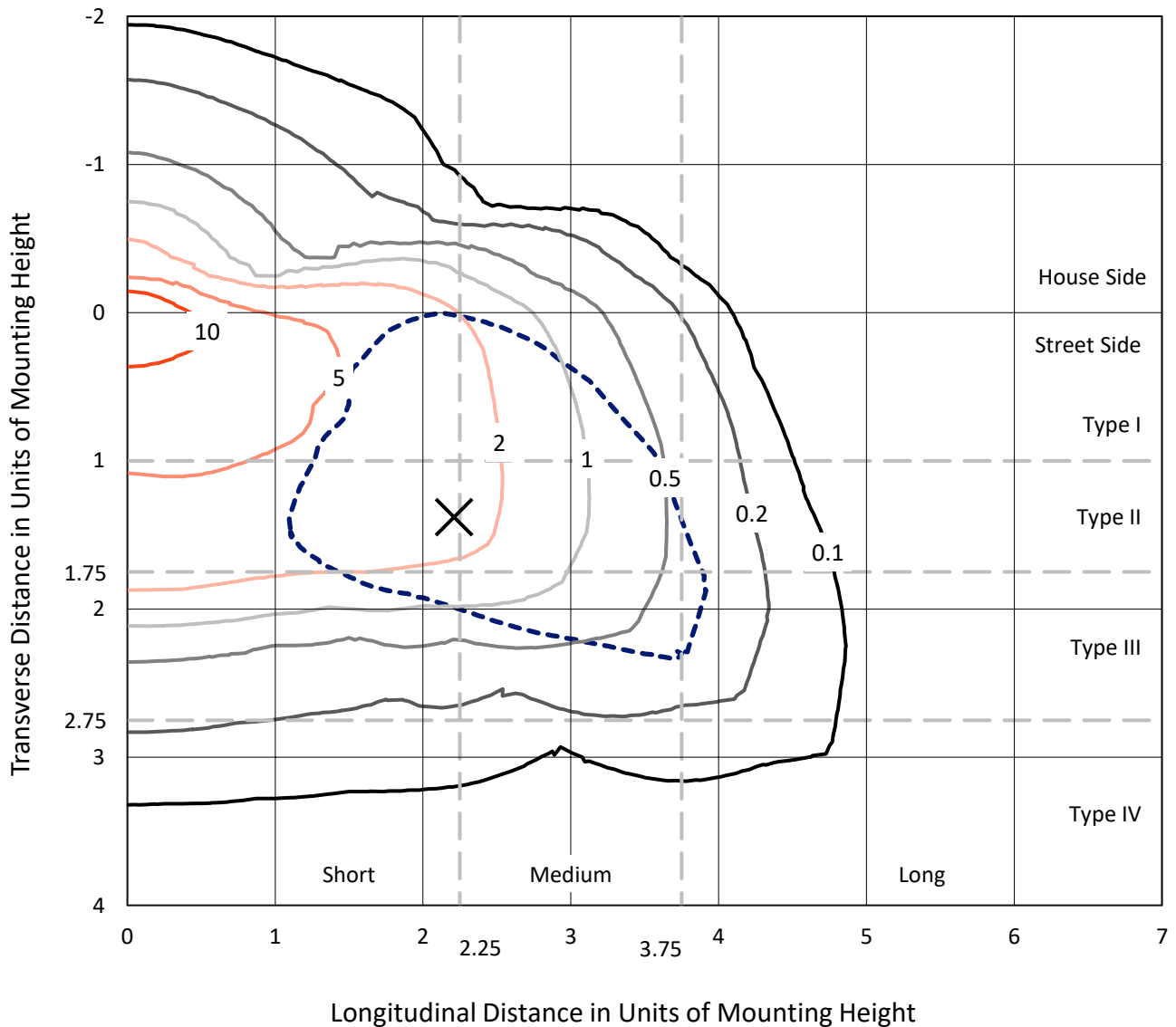
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

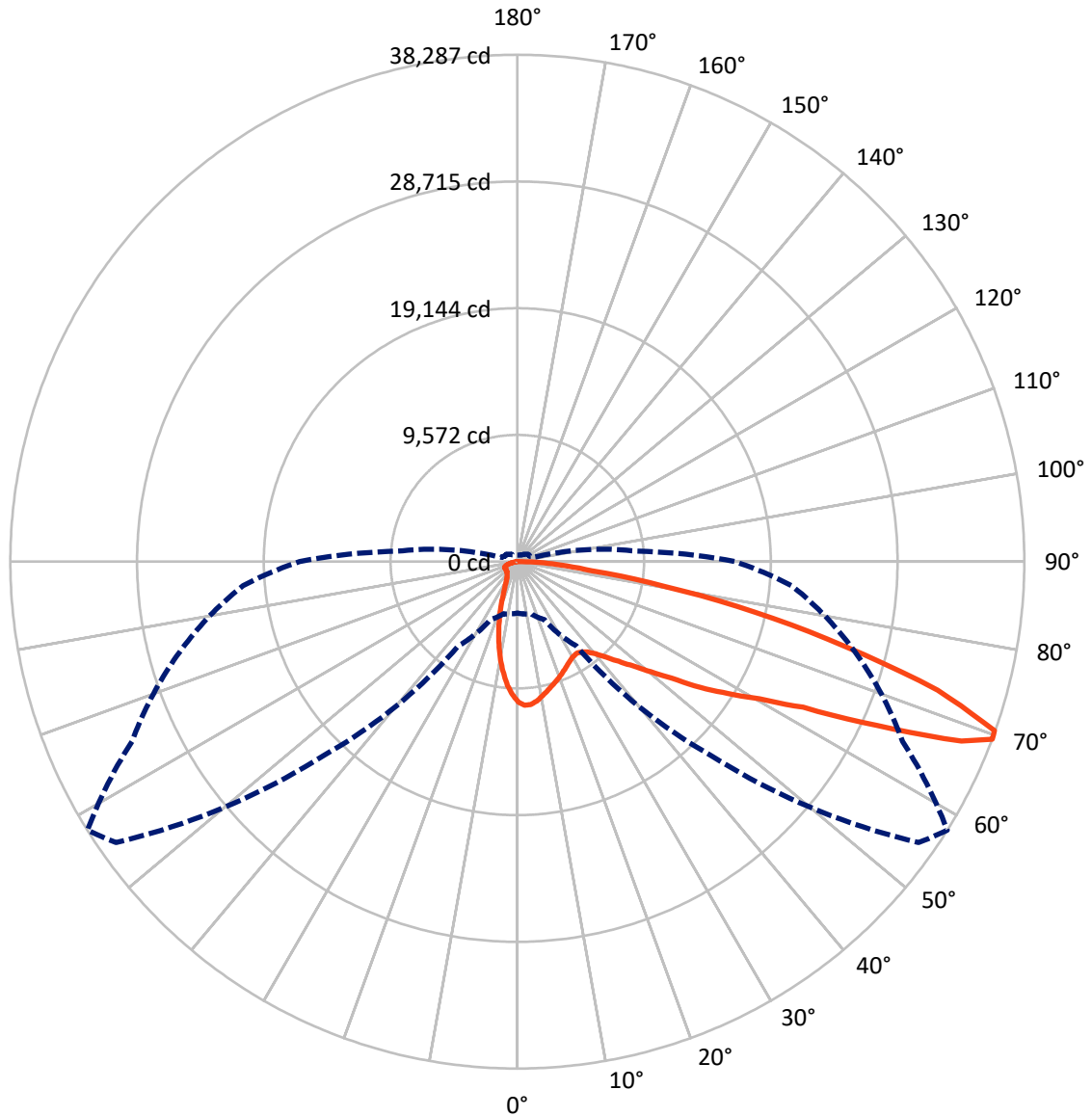
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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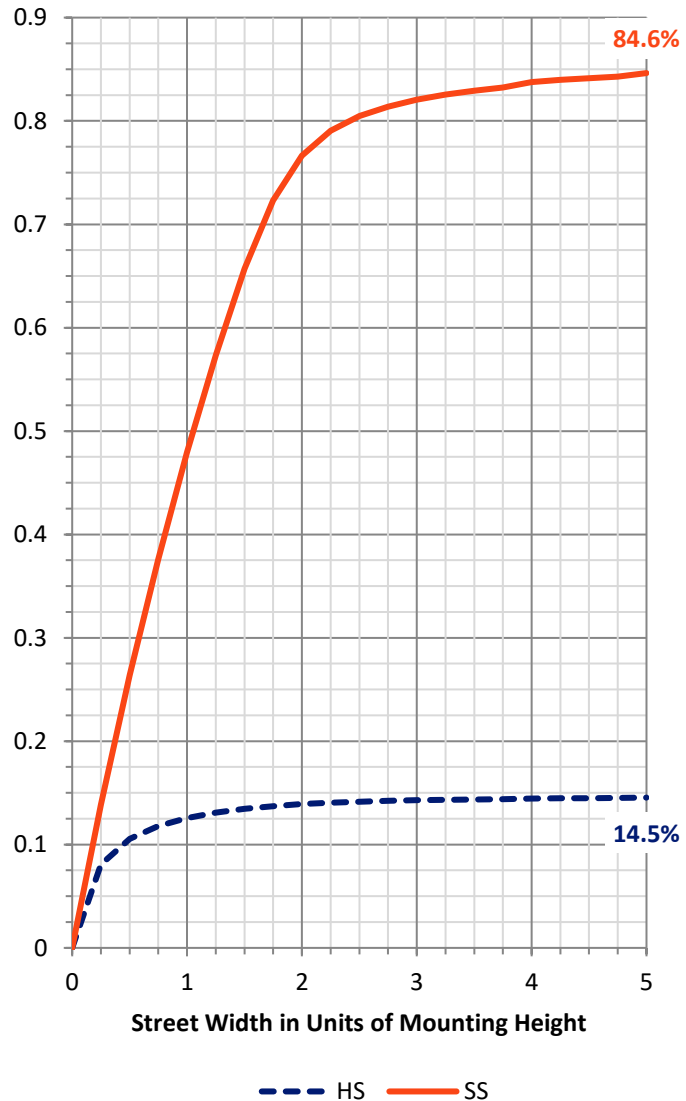
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5627.2	0.0	5627.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32770.8	0.0	32770.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	38398.0	0.0	38398.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.1	2.3
10°-20°	1978.7	5.2
20°-30°	2556.5	6.7
30°-40°	3320.4	8.6
40°-50°	4827.4	12.6
50°-60°	7703.0	20.1
60°-70°	10290.3	26.8
70°-80°	5931.9	15.4
80°-90°	888.5	2.3
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°	38398.0	100.0
0°-180°	38398.0	100.0



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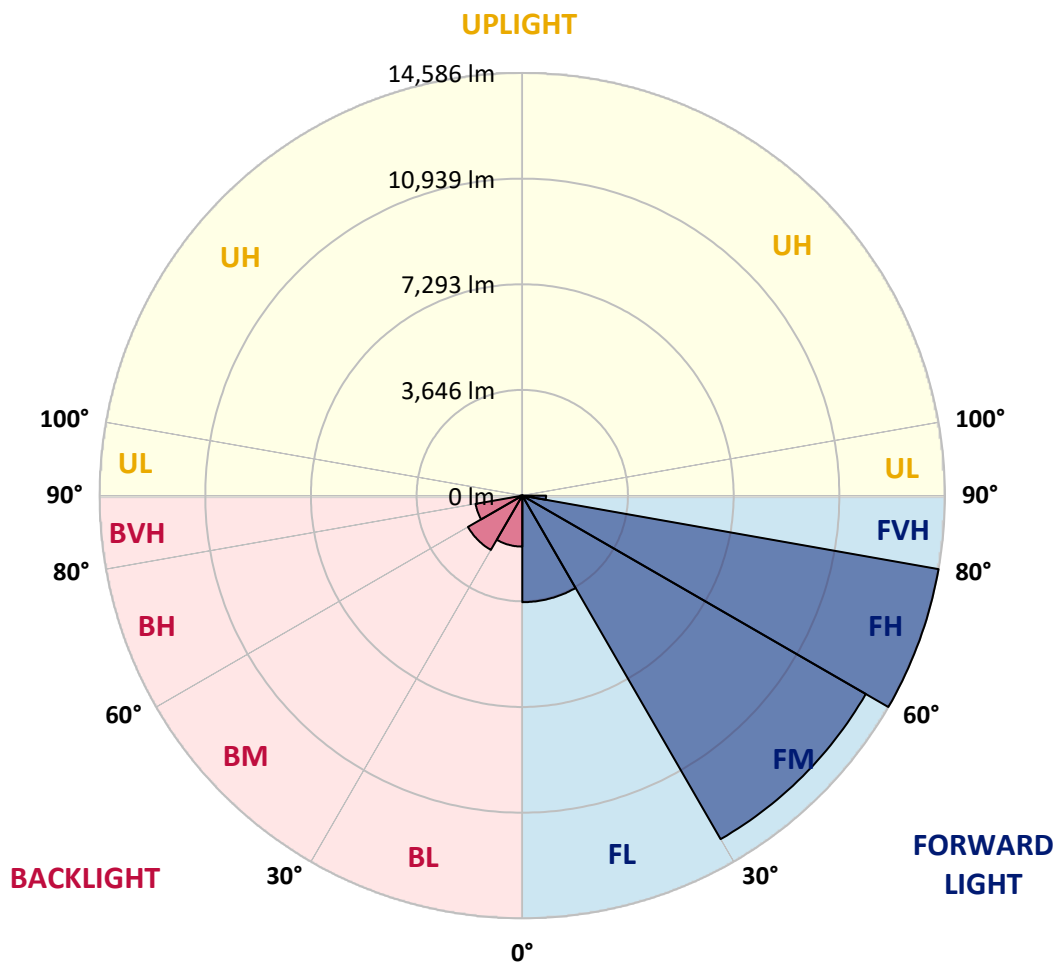
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3677.5	9.6			
FM	(30°-60°)	13686.9	35.6			
FH	(60°-80°)	14585.9	38.0			G5
FVH	(80°-90°)	820.4	2.1			G5
BL	(0°-30°)	1758.8	4.6	B3/2500		
BM	(30°-60°)	2164.0	5.6	B2/2500		
BH	(60°-80°)	1636.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	68.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0
2.5°	11005.0	11035.0	11026.4	11015.7	10998.6	10951.5	10874.4	10861.5	10812.3	10707.3	10576.7
5°	10835.8	10861.5	10863.7	10878.6	10900.1	10891.5	10835.8	10829.4	10756.6	10615.2	10396.8
7.5°	10255.5	10289.7	10364.7	10448.2	10523.2	10593.8	10611.0	10621.7	10576.7	10413.9	10122.7
10°	9602.3	9636.6	9670.9	9795.1	9979.2	10154.8	10300.4	10319.7	10330.4	10180.5	9825.0
12.5°	8878.5	8949.2	9022.0	9206.2	9452.4	9728.7	9985.7	10026.3	10099.1	9985.7	9568.1
15°	8263.9	8336.7	8441.7	8606.5	8904.2	9302.5	9664.4	9730.8	9874.3	9816.5	9328.2
17.5°	7837.8	7863.5	7936.3	8124.7	8445.9	8865.7	9349.6	9482.4	9711.5	9696.6	9122.6
20°	7501.6	7533.7	7578.6	7694.3	8028.4	8471.6	9056.3	9227.6	9538.1	9589.5	8919.2
22.5°	7360.2	7383.8	7377.3	7439.4	7666.4	8111.9	8758.6	8962.0	9383.9	9516.7	8730.8
25°	7368.8	7390.2	7358.1	7343.1	7478.0	7794.9	8448.1	8707.2	9259.7	9467.4	8559.4
27.5°	7512.3	7527.2	7467.3	7407.3	7418.0	7597.9	8191.1	8478.1	9154.8	9488.8	8416.0
30°	7705.0	7732.8	7694.3	7621.5	7542.2	7550.8	8026.2	8308.9	9105.5	9563.8	8347.4
32.5°	7953.4	7979.1	7962.0	7904.1	7801.4	7687.9	7985.5	8246.8	9109.8	9715.8	8332.4
35°	8214.7	8266.1	8293.9	8289.6	8206.1	8009.1	8146.1	8362.4	9212.6	9970.7	8420.2
37.5°	8510.2	8553.0	8672.9	8750.0	8672.9	8443.8	8508.0	8657.9	9439.6	10339.0	8613.0
40°	8797.1	8861.4	9037.0	9276.8	9246.8	9045.5	9060.5	9159.0	9840.0	10887.2	8989.9
42.5°	9096.9	9174.0	9480.3	9835.7	9906.4	9750.1	9790.8	9878.6	10409.7	11647.4	9636.6
45°	9482.4	9574.5	9951.4	10394.7	10673.1	10576.7	10692.3	10735.2	11172.0	12636.8	10488.9
47.5°	9979.2	10086.3	10551.0	11103.5	11497.5	11585.3	11786.6	11760.9	12116.4	13808.2	11593.9
50°	10816.5	10876.5	11315.5	11878.7	12420.5	12816.7	13035.1	13075.8	13287.8	14947.4	12829.5
52.5°	11812.3	11865.9	12182.8	12675.3	13354.2	14193.6	14733.3	14600.5	14651.9	16335.1	14275.0
55°	12932.3	13022.2	13223.5	13551.2	14431.3	15667.0	16750.5	16782.7	16213.0	17662.8	15660.5
57.5°	13799.6	13951.6	14296.4	14763.3	15879.0	17305.2	18761.4	18782.8	18054.7	19080.5	17189.5
60°	13362.7	13542.6	14330.7	15467.8	17778.4	20164.0	21164.1	21042.0	19847.1	20695.1	19054.8
62.5°	11478.3	11510.4	12656.1	14433.5	18363.1	23988.7	24740.3	24224.3	22239.1	22742.4	20950.0
65°	7428.7	7638.6	8546.6	11037.1	16442.2	26110.9	31006.3	29813.5	25592.6	25065.8	22536.8
67.5°	4689.8	4636.3	5013.2	6302.3	11309.1	24241.4	36353.5	36165.1	29978.4	26532.8	22157.7
69°	3888.9	3948.9	4077.3	4831.1	7782.1	20697.3	36985.2	38287.3	32104.8	26417.1	20780.8
70°	3527.0	3554.8	3689.7	4282.9	6004.7	17335.2	35948.8	38229.4	32940.0	25933.1	19782.9
72.5°	2798.9	2796.8	3028.0	3563.4	4488.5	9895.7	29518.0	33190.6	32006.3	23680.3	16345.8
75°	2126.5	2160.7	2415.6	3015.2	4135.2	5407.2	20598.8	25560.5	25562.7	18703.6	10199.8
77.5°	1533.3	1554.7	1852.4	2531.2	3895.3	4383.6	13720.4	18333.1	17234.5	8570.1	3205.8
80°	1004.3	1017.2	1244.2	2004.4	3512.0	4135.2	8135.4	11221.3	8129.0	2274.2	1060.0
82.5°	550.4	614.6	760.2	1297.7	2818.2	3820.4	4944.6	5679.2	3049.4	1012.9	552.5
85°	276.2	293.4	428.3	758.1	1841.7	3160.8	3443.5	3257.2	1574.0	503.2	287.0
87.5°	81.4	102.8	177.7	293.4	747.4	1646.8	1916.6	1719.6	606.0	182.0	60.0
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°	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0	10611.0
2.5°	10523.2	10484.6	10313.3	10159.1	10017.8	9867.9	9741.5	9630.2	9640.9	9643.0	9529.5
5°	10283.3	10195.5	9870.0	9565.9	9308.9	8983.4	8705.1	8525.2	8435.2	8315.3	8358.1
7.5°	9957.8	9788.6	9336.8	8831.4	8358.1	7936.3	7478.0	7163.2	6961.9	6767.0	6792.7
10°	9621.6	9349.6	8692.2	8024.1	7411.6	6737.0	6152.4	5651.3	5278.7	5139.5	5047.4
12.5°	9276.8	8919.2	8084.0	7195.3	6349.4	5542.1	4713.4	4175.9	3764.7	3546.3	3574.1
15°	8962.0	8527.3	7450.2	6366.6	5268.0	4306.5	3479.9	2968.1	2681.1	2621.2	2655.4
17.5°	8670.8	8101.2	6857.0	5561.4	4278.6	3229.3	2614.7	2325.6	2210.0	2177.9	2175.7
20°	8371.0	7739.3	6191.0	4700.5	3334.3	2503.4	2145.7	2010.8	1989.4	2002.3	2004.4
22.5°	8066.9	7291.7	5505.7	3846.1	2655.4	2047.2	1875.9	1839.5	1856.7	1886.6	1890.9
25°	7786.4	6897.7	4846.1	3096.6	2120.1	1798.8	1715.3	1715.3	1753.9	1798.8	1801.0
27.5°	7555.1	6516.5	4188.7	2458.4	1775.3	1618.9	1591.1	1606.1	1659.6	1693.9	1696.0
30°	7364.5	6161.0	3567.7	1970.1	1561.1	1475.5	1469.0	1494.7	1533.3	1565.4	1567.6
32.5°	7221.0	5848.3	2987.3	1655.4	1413.4	1366.3	1364.1	1383.4	1404.8	1413.4	1421.9
35°	7165.3	5589.2	2456.3	1456.2	1314.9	1284.9	1284.9	1282.7	1291.3	1295.6	1299.9
37.5°	7210.3	5390.1	2045.1	1327.7	1242.0	1220.6	1207.8	1194.9	1190.7	1190.7	1192.8
40°	7400.9	5285.1	1738.9	1244.2	1190.7	1158.5	1135.0	1120.0	1105.0	1109.3	1113.6
42.5°	7805.6	5304.4	1531.1	1188.5	1145.7	1100.7	1066.4	1049.3	1038.6	1051.5	1049.3
45°	8450.2	5497.1	1398.4	1150.0	1100.7	1042.9	1010.8	993.6	993.6	1012.9	1019.3
47.5°	9351.8	5865.5	1327.7	1120.0	1066.4	997.9	965.8	953.0	957.2	989.4	991.5
50°	10452.5	6505.8	1314.9	1105.0	1049.3	965.8	929.4	916.5	927.3	961.5	965.8
52.5°	11666.7	7330.2	1377.0	1107.1	1034.3	946.5	899.4	880.1	890.8	918.7	927.3
55°	13105.8	8362.4	1537.6	1115.7	1012.9	935.8	878.0	835.2	848.0	867.3	869.4
57.5°	14574.8	9664.4	1820.2	1117.8	995.8	916.5	841.6	785.9	785.9	798.8	805.2
60°	16369.4	11082.1	2192.9	1120.0	997.9	888.7	792.3	730.2	721.7	728.1	730.2
62.5°	18151.1	12268.5	2255.0	1113.6	1019.3	860.9	738.8	674.6	659.6	657.4	653.1
65°	18937.0	12047.9	1848.1	1083.6	1042.9	843.7	696.0	621.0	595.3	586.8	586.8
67.5°	17656.4	10191.2	1389.8	1042.9	1027.9	826.6	655.3	576.1	546.1	528.9	528.9
69°	16452.9	9064.8	1248.5	1015.1	989.4	798.8	629.6	552.5	516.1	496.8	490.4
70°	15523.5	8289.6	1188.5	991.5	953.0	766.6	610.3	535.4	494.7	473.3	469.0
72.5°	12388.4	6503.6	1040.8	901.6	811.6	644.6	541.8	481.8	443.3	419.7	413.3
75°	7139.6	3524.9	863.0	783.8	653.1	501.1	458.3	419.7	389.7	368.3	361.9
77.5°	2197.1	1362.0	625.3	618.9	479.7	387.6	366.2	351.2	329.8	306.2	301.9
80°	925.1	693.8	424.0	417.6	319.1	269.8	263.4	261.3	252.7	233.4	227.0
82.5°	507.5	391.9	295.5	257.0	192.7	156.3	162.8	164.9	158.5	139.2	126.3
85°	248.4	214.1	143.5	115.6	87.8	55.7	53.5	64.2	60.0	42.8	47.1
87.5°	49.3	60.0	38.5	17.1	8.6	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)