

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: P456537

Luminaire Tested: **GALN-SA7D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38800 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

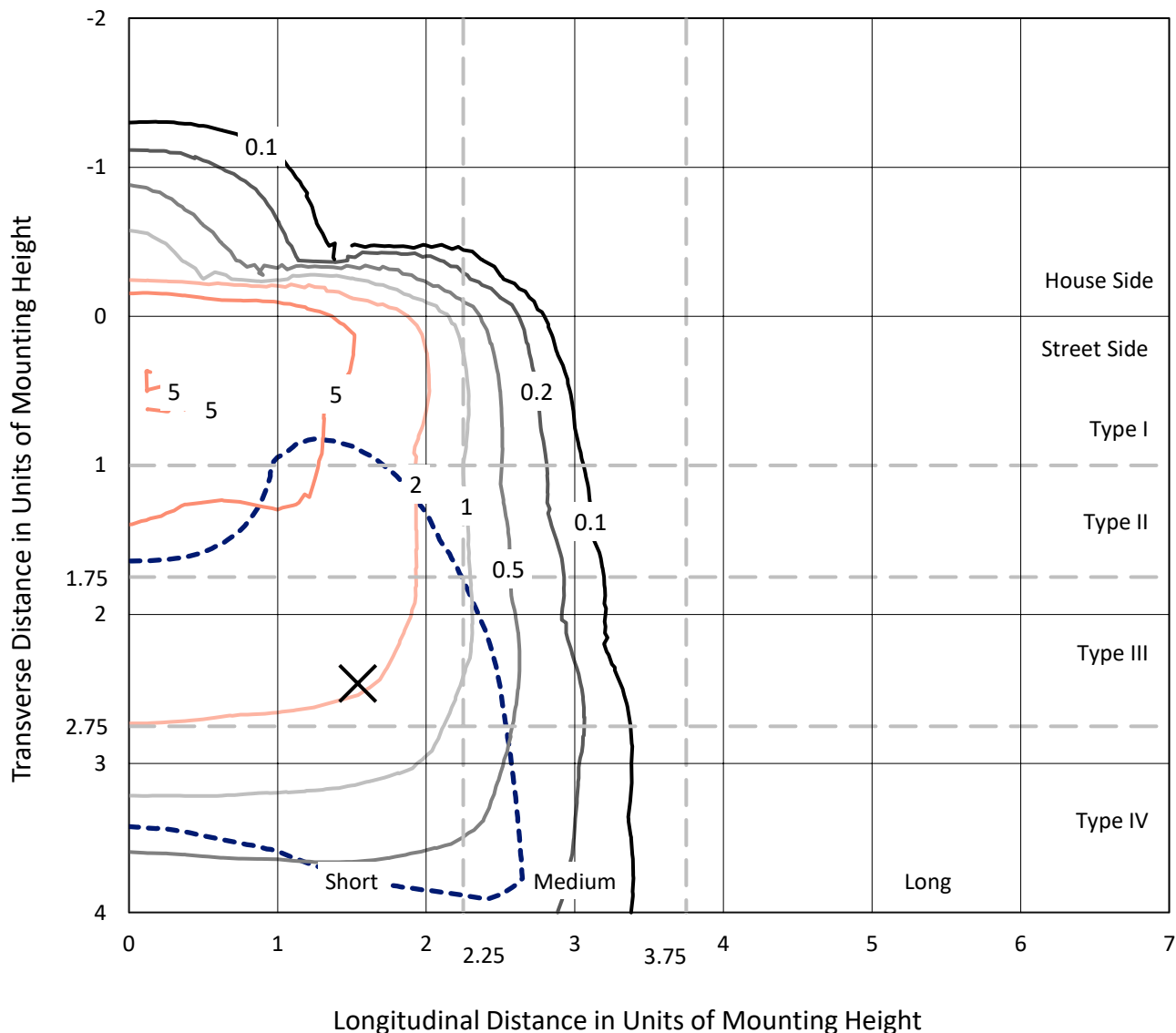
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

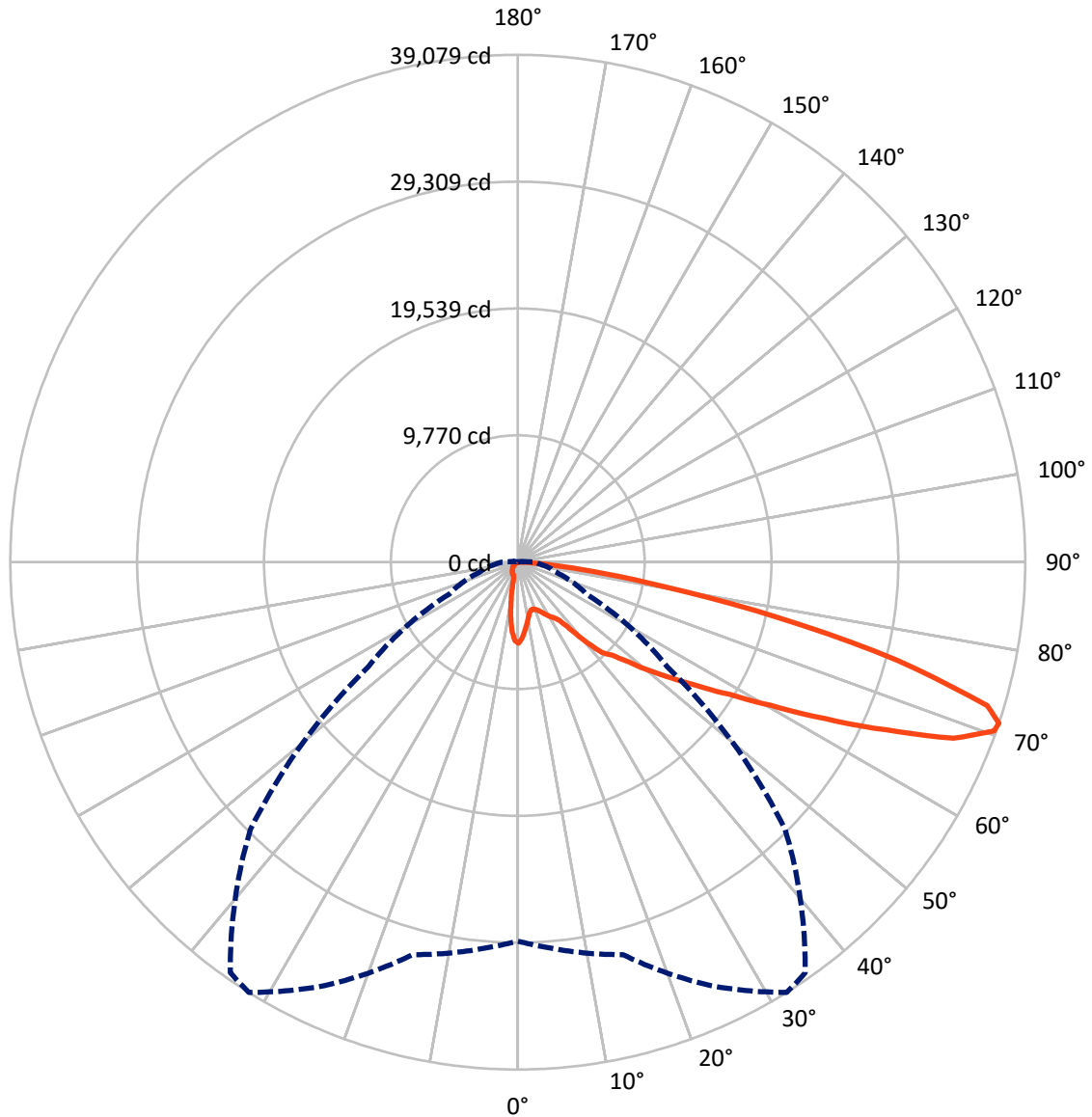
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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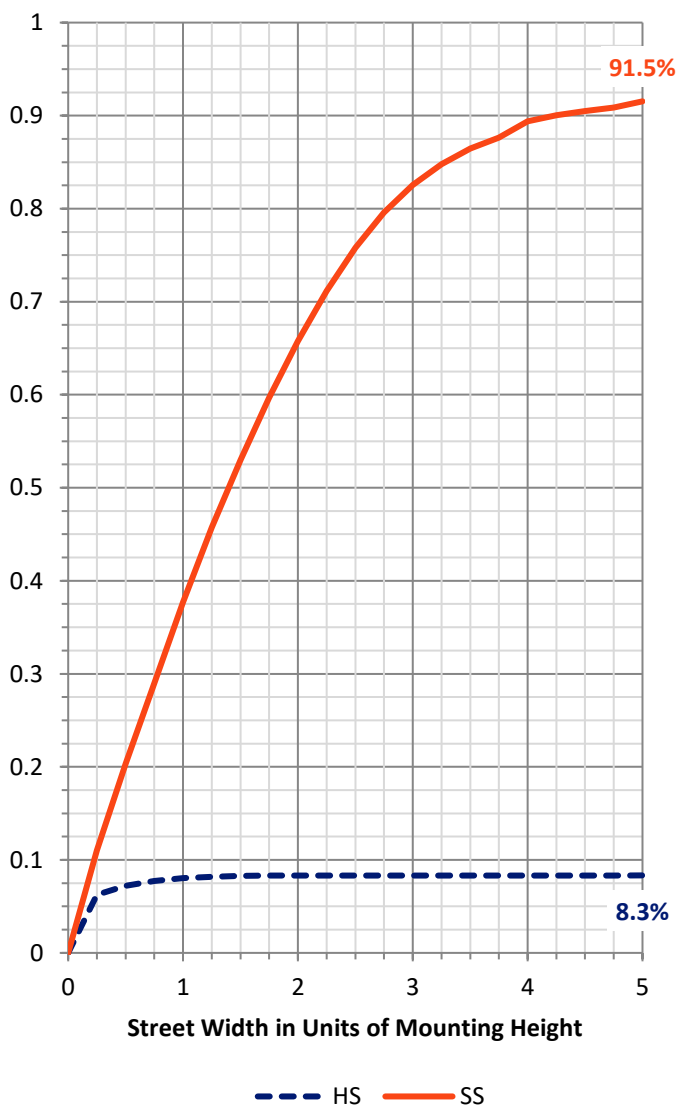
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3249.9	0.0	3249.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35550.1	0.0	35550.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	38800.0	0.0	38800.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.4	1.3
10°-20°	1101.2	2.8
20°-30°	1713.0	4.4
30°-40°	2853.9	7.4
40°-50°	5308.8	13.7
50°-60°	8523.5	22.0
60°-70°	11464.5	29.5
70°-80°	6802.0	17.5
80°-90°	525.8	1.4
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°	38800.0	100.0
0°-180°	38800.0	100.0



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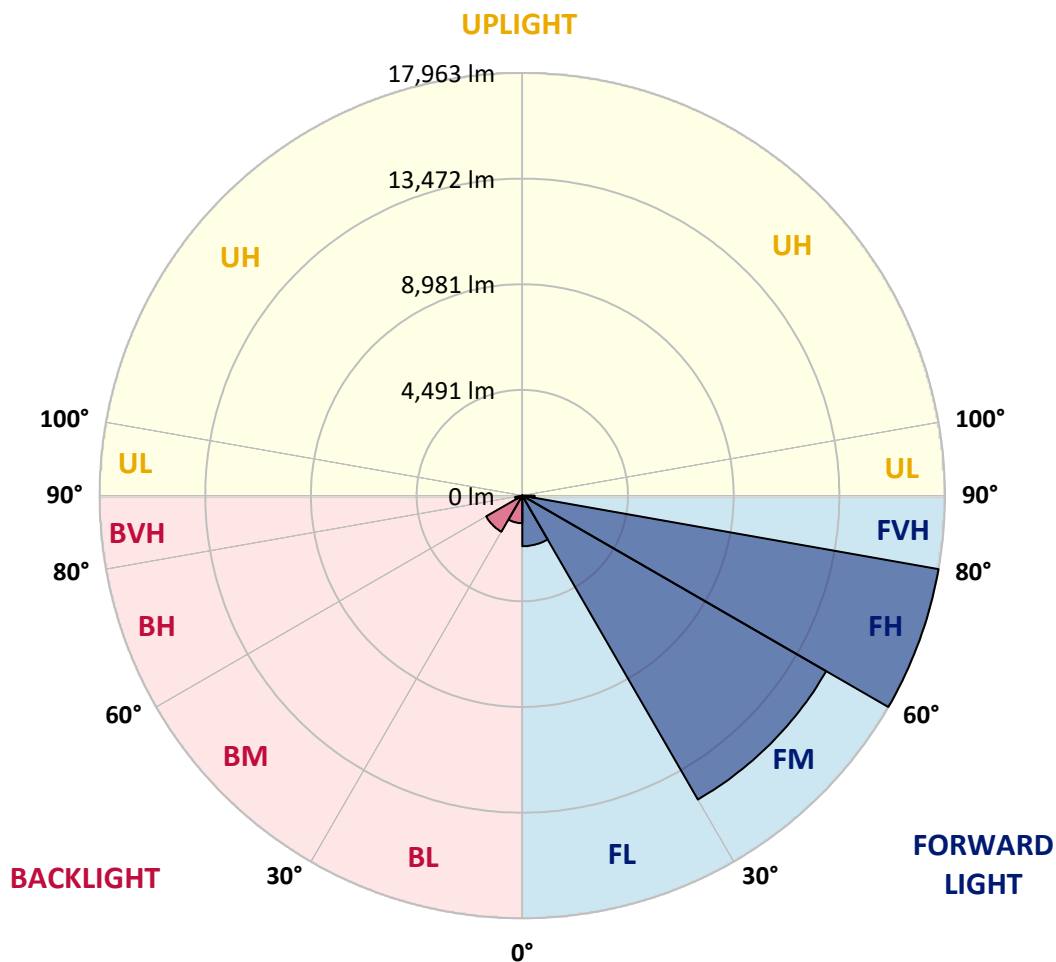
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2150.6	5.5			
FM (30°-60°)	14913.3	38.4			
FH (60°-80°)	17962.5	46.3			G5
FVH (80°-90°)	523.7	1.3			G4/750
BL (0°-30°)	1171.0	3.0	B3/2500		
BM (30°-60°)	1772.9	4.6	B2/2500		
BH (60°-80°)	304.0	0.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6
2.5°	5786.9	5846.5	5837.6	5858.4	5909.0	5929.9	5986.5	6049.0	6135.4	6195.0	6233.7
5°	5182.3	5227.0	5233.0	5337.2	5387.8	5444.4	5611.2	5792.9	5995.4	6156.3	6263.5
7.5°	4536.0	4559.9	4607.5	4744.5	4872.6	4929.2	5182.3	5498.0	5816.7	6117.5	6311.1
10°	4002.9	4029.7	4116.1	4262.0	4381.2	4455.6	4807.1	5203.2	5649.9	6096.7	6379.6
12.5°	3699.1	3714.0	3746.8	3877.8	4029.7	4110.1	4488.4	4941.1	5515.9	6105.6	6495.8
15°	3678.3	3672.3	3633.6	3687.2	3824.2	3907.6	4276.9	4762.4	5396.8	6135.4	6632.8
17.5°	3788.5	3773.6	3681.2	3681.2	3794.4	3862.9	4187.6	4667.1	5337.2	6203.9	6826.4
20°	3958.2	3934.4	3782.5	3770.6	3880.8	3952.3	4241.2	4673.0	5349.1	6332.0	7085.5
22.5°	4172.7	4145.9	3916.5	3922.5	4041.6	4113.1	4396.0	4780.3	5423.6	6489.8	7362.5
25°	4452.6	4422.9	4151.8	4139.9	4265.0	4327.5	4625.4	4970.9	5527.8	6686.4	7725.8
27.5°	4824.9	4762.4	4437.7	4419.9	4553.9	4634.3	4902.4	5227.0	5712.5	6957.4	8214.3
30°	5131.7	5063.2	4753.4	4705.8	4848.8	4911.3	5188.3	5572.5	6075.8	7431.0	8890.4
32.5°	5533.8	5432.5	5069.2	4944.1	5096.0	5176.4	5602.3	6215.8	6614.9	7931.3	9694.5
35°	6439.2	6376.7	5932.9	5495.1	5486.1	5587.4	6212.8	6865.1	7168.9	8711.7	10790.6
37.5°	7734.8	7690.1	7219.5	6632.8	6463.0	6415.4	6954.5	7579.9	8053.5	9783.9	12065.3
40°	9238.8	9134.6	8702.7	8205.4	7985.0	7845.0	7830.1	8643.2	9209.1	11240.3	13393.6
42.5°	10317.0	10126.4	9602.2	9566.5	9518.8	9372.9	8949.9	10197.9	10701.2	12806.9	14814.3
45°	11448.8	11159.9	10379.6	10245.5	10227.7	10218.7	10641.6	12038.5	12327.4	14504.6	16273.7
47.5°	12327.4	12098.1	11457.7	11398.2	11472.6	11675.1	12878.4	13992.3	13932.7	16017.6	17497.8
50°	13497.9	13325.1	12613.3	12726.5	13110.7	13441.3	15401.1	16121.8	15252.1	17208.9	18388.3
52.5°	14879.8	14561.2	13900.0	14206.7	14796.4	15347.4	18078.6	17986.3	16178.4	18105.4	19052.5
55°	16077.1	15850.8	15624.4	15943.1	16824.7	17512.7	20497.0	19383.1	16851.5	18826.2	19344.4
57.5°	18102.4	18048.8	17816.5	18141.1	19210.4	19925.2	22662.3	20467.2	17283.4	19201.4	19001.9
60°	21098.6	21012.3	20580.4	20994.4	22388.3	23511.1	24657.8	21441.2	17381.7	19055.5	18016.0
62.5°	24702.4	24407.6	24038.3	24648.8	26560.9	27055.3	26537.1	22019.0	17015.3	17893.9	15639.3
65°	28068.0	27764.2	27773.1	29059.8	31141.6	31478.2	28729.2	21932.6	15943.1	14984.1	11535.2
67.5°	30644.3	30593.6	30957.0	33467.7	36189.9	35957.6	30688.9	20640.0	12765.2	9712.4	6129.4
70°	30775.3	30873.6	31916.0	36154.2	38918.1	38548.8	30522.1	16777.1	7958.2	4467.5	2415.4
71°	29190.8	29852.0	31293.5	36070.8	39078.9	38599.4	29116.4	14051.9	5837.6	3115.4	1742.3
72.5°	24875.2	25223.7	28339.0	33947.2	37807.2	36782.6	25551.3	9849.4	3737.8	1906.1	1000.7
75°	13700.4	14558.2	18978.1	26632.4	30239.2	29339.7	16652.0	4679.0	1864.4	1042.4	414.0
77.5°	6522.6	6355.8	9259.7	15838.9	20503.0	20455.3	8390.0	2078.9	1087.1	705.9	208.5
80°	1864.4	2096.8	3544.2	7529.3	11383.3	11508.3	3222.6	1003.7	753.5	551.0	107.2
82.5°	562.9	574.8	1301.5	3329.8	5661.8	5337.2	1209.2	512.3	542.1	437.8	62.5
85°	98.3	122.1	384.2	1173.5	2159.3	1638.1	303.8	244.2	357.4	288.9	35.7
87.5°	6.0	8.9	128.1	134.0	190.6	110.2	53.6	35.7	77.4	77.4	20.8
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°	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6	6239.6
2.5°	6260.5	6278.4	6266.5	6239.6	6195.0	6141.4	6069.9	6010.3	5959.7	5932.9	5965.6
5°	6299.2	6323.0	6263.5	6129.4	5926.9	5706.5	5456.3	5262.7	5110.9	5063.2	5045.3
7.5°	6358.8	6373.7	6212.8	5915.0	5486.1	4964.9	4509.2	4125.0	3827.2	3737.8	3606.8
10°	6436.2	6427.3	6123.5	5569.5	4816.0	4032.7	3326.8	2802.6	2406.5	2263.5	2251.6
12.5°	6555.4	6507.7	6010.3	5098.9	4017.8	2993.2	2120.6	1658.9	1408.8	1325.4	1307.5
15°	6704.3	6591.1	5831.6	4547.9	3076.6	1933.0	1307.5	1167.5	1134.8	1128.8	1122.8
17.5°	6880.0	6701.3	5596.3	3871.9	2162.3	1253.9	1093.1	1090.1	1093.1	1087.1	1084.1
20°	7118.3	6817.4	5316.4	3070.7	1429.6	1057.3	1042.4	1042.4	1045.4	1042.4	1042.4
22.5°	7371.4	6954.5	4970.9	2344.0	1078.2	1003.7	1000.7	1006.7	1012.6	1009.7	1009.7
25°	7684.1	7133.2	4515.2	1605.3	965.0	959.0	962.0	973.9	985.8	988.8	985.8
27.5°	8136.9	7353.5	4026.7	1105.0	884.6	890.5	920.3	950.1	968.0	970.9	970.9
30°	8646.2	7597.8	3389.4	896.5	819.0	819.0	854.8	911.4	950.1	956.1	959.0
32.5°	9301.4	7880.7	2683.5	807.1	756.5	750.5	783.3	851.8	923.3	944.1	944.1
35°	10111.5	8214.3	1995.5	750.5	711.8	696.9	714.8	771.4	863.7	923.3	929.2
37.5°	11061.6	8530.0	1459.4	699.9	670.1	649.3	661.2	705.9	780.3	869.7	893.5
40°	11940.2	8810.0	1090.1	658.2	628.4	613.5	622.5	643.3	705.9	789.3	804.2
42.5°	12899.2	9027.4	866.7	613.5	586.7	580.8	580.8	589.7	631.4	679.1	682.0
45°	13855.3	9104.8	726.7	559.9	542.1	548.0	545.0	539.1	557.0	551.0	551.0
47.5°	14537.3	9012.5	601.6	509.3	509.3	518.2	503.3	482.5	473.6	437.8	440.8
50°	15004.9	8675.9	494.4	449.7	473.6	485.5	455.7	422.9	390.2	351.4	342.5
52.5°	15198.5	8077.3	405.1	372.3	419.9	434.8	399.1	360.4	309.7	277.0	268.1
55°	15073.4	7338.7	336.6	303.8	354.4	372.3	336.6	291.9	235.3	199.5	193.6
57.5°	14522.4	6457.1	285.9	241.2	282.9	294.9	271.0	223.4	166.8	131.0	131.0
60°	13569.4	5545.7	232.3	190.6	211.5	229.3	205.5	160.8	113.2	80.4	74.5
62.5°	11636.4	4503.3	187.6	148.9	148.9	163.8	143.0	116.2	71.5	41.7	38.7
65°	8401.9	3088.6	148.9	110.2	107.2	107.2	89.4	77.4	41.7	17.9	11.9
67.5°	4565.8	1742.3	119.1	83.4	74.5	71.5	56.6	44.7	17.9	3.0	0.0
70°	1795.9	670.1	92.3	56.6	47.7	44.7	29.8	20.8	11.9	0.0	0.0
71°	1218.1	461.6	80.4	47.7	38.7	32.8	23.8	17.9	8.9	0.0	0.0
72.5°	696.9	285.9	62.5	35.7	29.8	23.8	17.9	11.9	8.9	0.0	0.0
75°	303.8	145.9	38.7	26.8	20.8	14.9	11.9	8.9	3.0	0.0	0.0
77.5°	154.9	80.4	26.8	20.8	11.9	8.9	6.0	3.0	0.0	0.0	0.0
80°	86.4	41.7	17.9	11.9	8.9	6.0	3.0	3.0	0.0	0.0	0.0
82.5°	47.7	23.8	8.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.8	14.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	6.0	0.0	0.0	0.0	0.0	3.0	3.0	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)