

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: P453504

Luminaire Tested: **GALN-SA4C-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453504
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-SA4C-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 23006 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

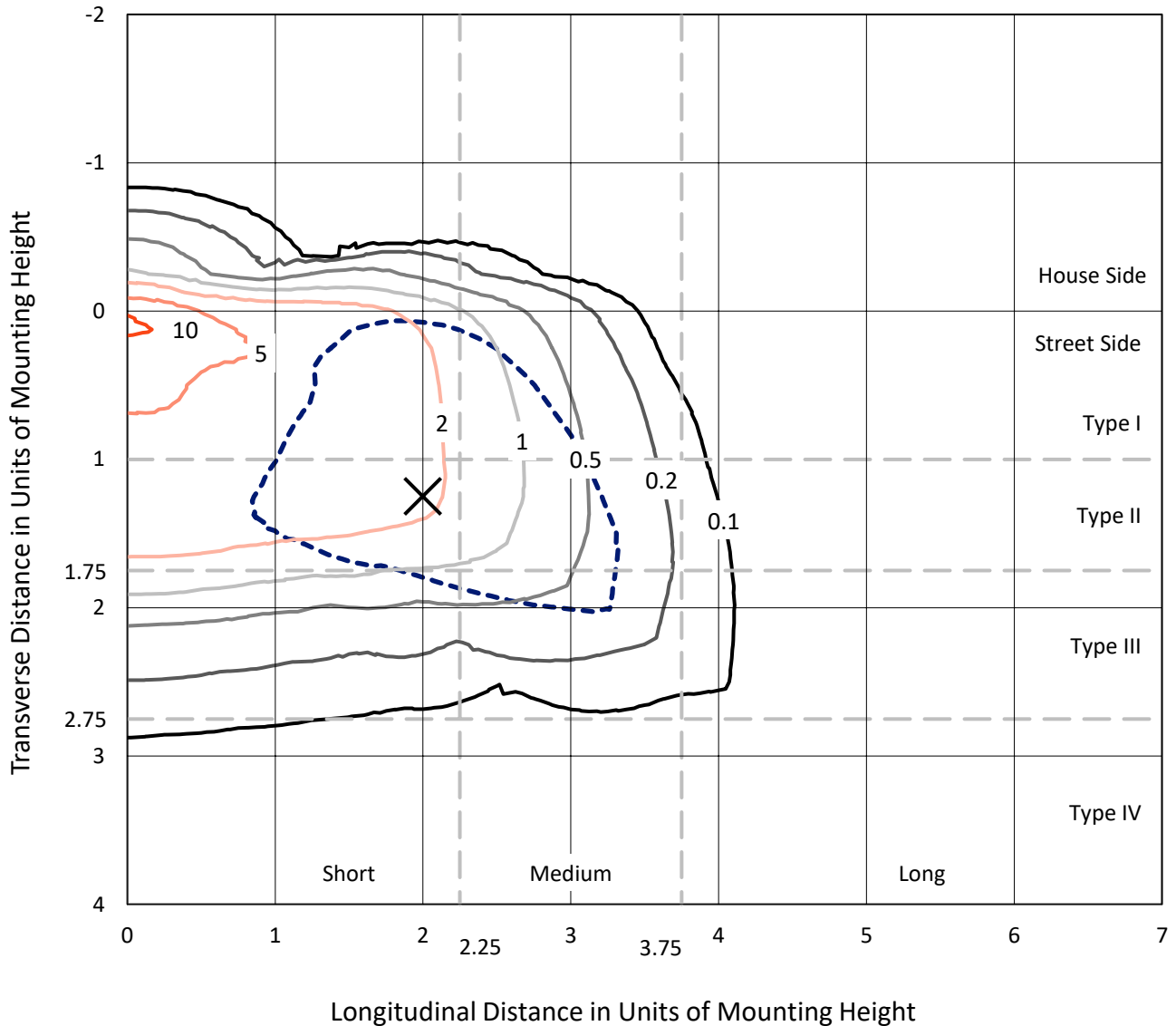
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

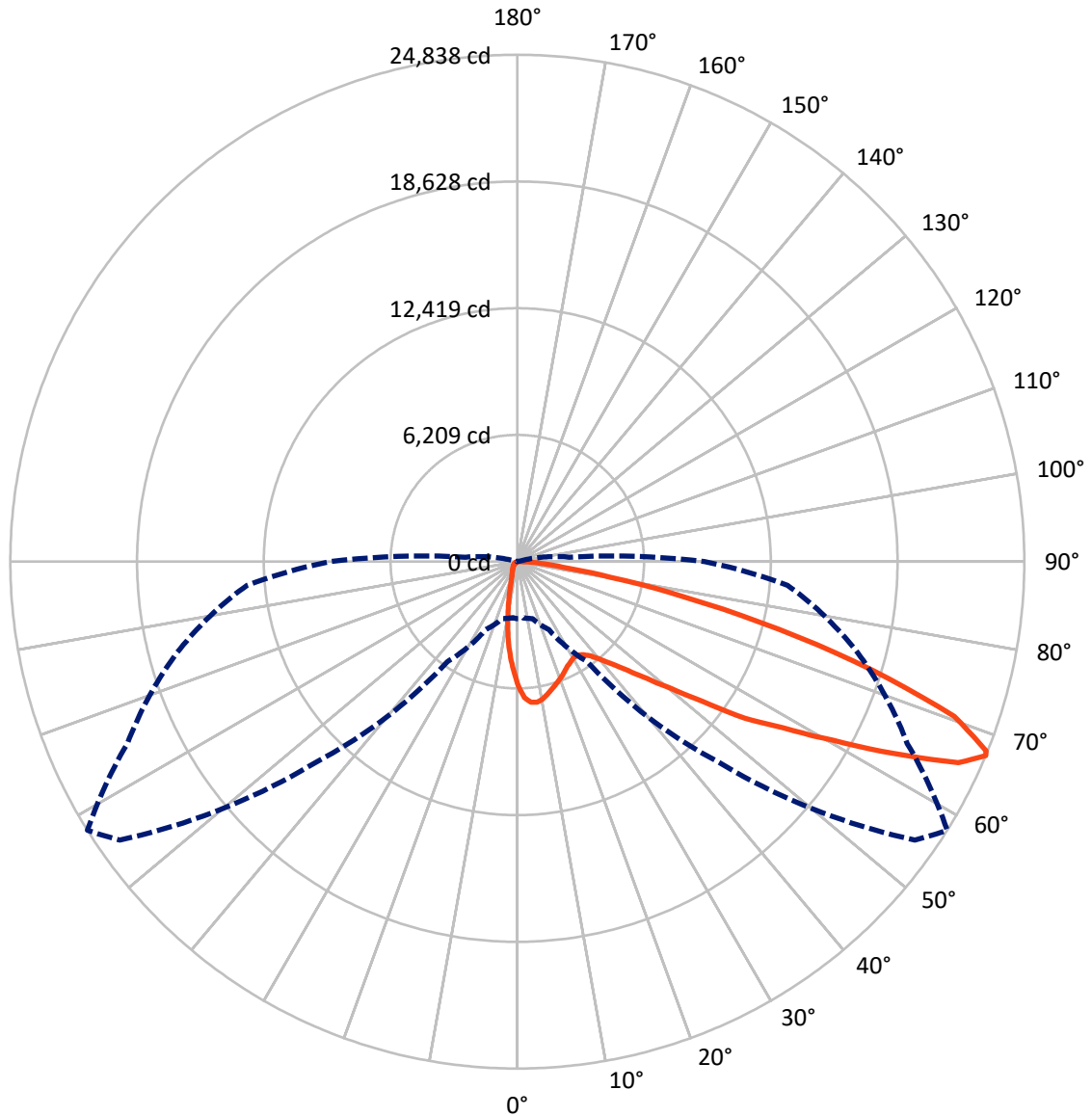
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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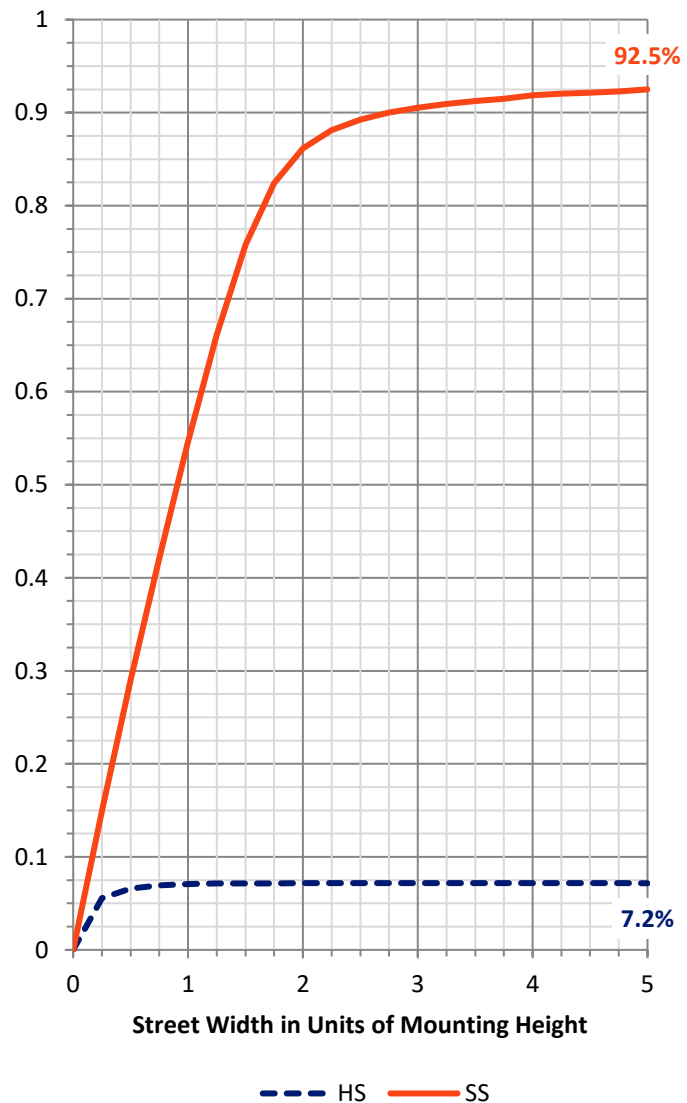
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1660.2	0.0	1660.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21345.8	0.0	21345.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	23006.0	0.0	23006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	2.2
10°-20°	1068.8	4.6
20°-30°	1448.4	6.3
30°-40°	2008.8	8.7
40°-50°	3203.8	13.9
50°-60°	5538.0	24.1
60°-70°	6326.2	27.5
70°-80°	2637.4	11.5
80°-90°	279.6	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°	23006.0	100.0
0°-180°	23006.0	100.0



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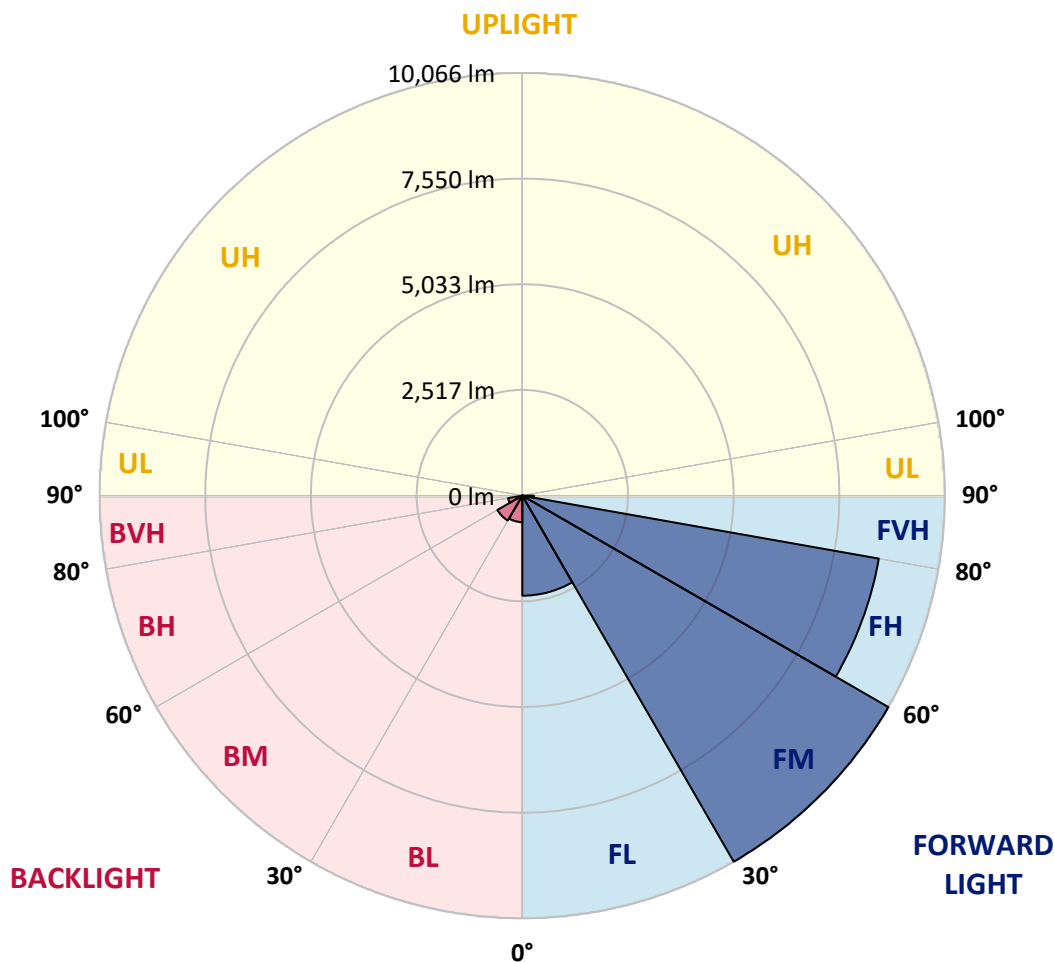
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2381.7	10.4			
FM (30°-60°)	10066.1	43.8			
FH (60°-80°)	8620.4	37.5			G4/12000
FVH (80°-90°)	277.6	1.2			G3/500
BL (0°-30°)	630.4	2.7	B2/1000		
BM (30°-60°)	684.6	3.0	B1/1000		
BH (60°-80°)	343.2	1.5	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: 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°	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7
2.5°	7078.0	7088.7	7048.8	7016.5	6933.5	6844.3	6725.9	6662.9	6555.3	6369.3	6163.2
5°	7244.0	7257.8	7251.7	7244.0	7211.7	7125.6	6975.0	6919.6	6761.3	6458.4	6086.4
7.5°	6875.0	6925.8	6931.9	6991.9	7048.8	7056.5	6999.6	6958.1	6812.0	6456.9	5949.6
10°	6386.2	6420.0	6469.2	6538.4	6675.2	6789.0	6844.3	6838.1	6753.6	6409.2	5789.7
12.5°	5892.7	5911.1	5986.5	6104.8	6272.4	6466.1	6613.7	6642.9	6644.4	6352.3	5655.9
15°	5468.4	5460.7	5519.1	5655.9	5891.1	6134.0	6398.5	6444.6	6518.4	6297.0	5531.4
17.5°	5105.5	5145.5	5154.7	5305.4	5522.2	5837.3	6174.0	6255.5	6403.1	6249.3	5428.4
20°	4881.1	4902.6	4922.6	5007.2	5202.4	5534.5	5963.4	6075.6	6295.5	6206.3	5313.1
22.5°	4815.0	4828.8	4811.9	4838.0	4976.4	5271.6	5734.3	5883.4	6192.5	6166.3	5219.3
25°	4865.7	4879.6	4839.6	4808.8	4856.5	5057.9	5512.9	5694.4	6109.4	6158.6	5148.6
27.5°	4988.7	5014.8	4959.5	4904.2	4876.5	4942.6	5339.2	5549.8	6052.6	6195.5	5116.3
30°	5180.9	5196.3	5154.7	5087.1	5024.1	4958.0	5248.5	5449.9	6037.2	6281.6	5113.2
32.5°	5390.0	5422.2	5399.2	5354.6	5273.1	5116.3	5274.7	5453.0	6074.1	6406.1	5151.7
35°	5648.2	5685.1	5706.7	5697.4	5592.9	5397.6	5440.7	5591.4	6172.5	6635.2	5256.2
37.5°	5901.9	5934.2	6055.6	6097.1	6004.9	5820.4	5763.5	5863.5	6389.2	6935.0	5445.3
40°	6192.5	6235.5	6406.1	6564.5	6519.9	6326.2	6221.7	6304.7	6721.3	7387.0	5803.5
42.5°	6470.7	6547.6	6807.4	7087.2	7128.7	6911.9	6842.8	6870.4	7213.3	8037.3	6303.1
45°	6865.8	6938.1	7273.2	7652.9	7848.2	7679.1	7608.4	7603.7	7888.2	8952.0	7113.3
47.5°	7436.2	7500.7	7895.8	8271.0	8618.4	8641.5	8507.7	8553.8	8736.8	10022.0	8106.5
50°	8135.7	8287.9	8547.7	8938.2	9402.5	9777.6	9819.1	9757.6	9914.4	11261.1	9299.4
52.5°	9151.9	9210.3	9448.6	9769.9	10314.1	10950.6	11444.1	11359.5	11310.3	12441.8	10504.7
55°	9909.8	9988.2	10358.7	10799.9	11597.8	12437.2	13507.2	13536.4	12915.3	13576.4	11683.9
57.5°	9680.7	9800.6	10361.8	11248.8	13002.9	14537.2	15333.6	15353.5	14400.4	14678.6	13015.2
60°	8504.6	8561.5	9365.6	10549.3	13122.8	16812.5	17924.0	17762.6	15911.6	15911.6	14191.3
62.5°	6031.0	6120.2	6772.0	8513.9	11851.5	17602.7	21026.4	20692.8	17993.2	17090.8	14892.3
65°	3854.1	3768.1	4200.0	5374.6	8829.0	16435.8	23727.5	23747.5	19951.8	17562.7	14509.5
67°	2791.8	2758.0	2882.5	3674.3	5986.5	13816.2	23784.4	24837.5	21077.1	17264.5	13285.8
67.5°	2553.5	2579.7	2670.4	3314.5	5439.2	12572.5	23526.1	24772.9	21330.8	17084.6	12843.0
70°	1935.5	1890.9	1989.3	2344.5	3260.7	7931.2	20237.7	22720.5	21015.6	15299.7	10261.8
72.5°	1423.6	1419.0	1555.8	1917.1	2510.5	4224.6	15192.1	18217.6	17169.2	11650.1	6461.5
75°	960.8	1003.9	1222.2	1601.9	2275.3	2739.6	10357.1	13216.6	11919.1	6615.2	2641.2
77.5°	547.3	550.4	787.1	1286.8	2043.1	2204.6	6137.1	8420.1	6309.3	2200.0	784.1
80°	236.8	259.8	390.5	934.7	1694.2	1952.4	3519.0	4627.4	2552.0	465.8	253.7
82.5°	87.6	103.0	172.2	575.0	1236.0	1608.1	2126.2	2209.2	865.5	164.5	158.3
85°	0.0	3.1	63.0	269.0	644.2	717.9	1420.5	1309.8	382.8	78.4	103.0
87.5°	0.0	0.0	0.0	27.7	84.6	267.5	441.2	492.0	92.2	27.7	24.6
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°	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7	6098.7
2.5°	6052.6	5952.6	5702.0	5451.5	5265.4	5110.2	4876.5	4748.9	4681.2	4581.3	4587.5
5°	5900.4	5697.4	5256.2	4799.6	4430.7	4070.9	3640.5	3466.7	3320.7	3237.7	3182.3
7.5°	5674.4	5374.6	4721.2	4112.4	3545.1	2916.4	2444.4	2129.2	1917.1	1838.7	1763.3
10°	5426.9	5028.7	4178.5	3334.5	2547.4	1898.6	1498.9	1209.9	1106.9	1011.6	1020.8
12.5°	5197.8	4713.5	3680.4	2631.9	1784.9	1206.8	940.9	822.5	788.7	777.9	777.9
15°	5010.2	4412.2	3145.4	1978.6	1223.7	867.1	753.3	721.0	708.7	705.6	705.6
17.5°	4810.4	4126.3	2662.7	1462.0	890.1	725.6	687.2	665.7	661.1	658.0	658.0
20°	4632.0	3838.8	2204.6	1088.4	719.5	653.4	628.8	614.9	610.3	607.3	608.8
22.5°	4462.9	3583.6	1774.1	822.5	633.4	595.0	570.4	556.5	547.3	539.6	541.1
25°	4312.3	3337.6	1426.7	673.4	570.4	536.5	511.9	492.0	472.0	462.7	461.2
27.5°	4206.2	3122.4	1111.5	576.5	513.5	476.6	445.8	421.2	395.1	381.3	378.2
30°	4118.6	2904.1	879.4	508.9	456.6	421.2	382.8	347.4	319.8	305.9	299.8
32.5°	4061.7	2696.5	693.3	453.5	408.9	365.9	322.8	287.5	256.7	242.9	239.8
35°	4052.5	2522.8	567.3	407.4	365.9	319.8	275.2	236.8	210.6	196.8	193.7
37.5°	4118.6	2389.0	475.0	370.5	330.5	279.8	230.6	195.2	172.2	161.4	159.9
40°	4295.4	2304.5	412.0	339.8	298.2	242.9	196.8	166.0	143.0	132.2	132.2
42.5°	4632.0	2307.6	370.5	310.5	266.0	207.5	167.6	138.4	118.4	109.2	106.1
45°	5157.8	2412.1	335.1	281.3	235.2	179.9	143.0	113.8	93.8	86.1	86.1
47.5°	5861.9	2619.6	304.4	252.1	207.5	153.7	121.5	92.2	75.3	67.6	67.6
50°	6782.8	2953.3	278.3	227.5	184.5	132.2	98.4	75.3	58.4	52.3	50.7
52.5°	7745.2	3365.3	247.5	206.0	158.3	112.2	79.9	58.4	44.6	40.0	38.4
55°	8807.5	3768.1	218.3	184.5	129.1	93.8	63.0	46.1	32.3	27.7	27.7
57.5°	9879.0	4163.2	182.9	153.7	101.5	69.2	49.2	33.8	21.5	16.9	16.9
60°	10786.1	4290.8	155.3	124.5	76.9	49.2	35.4	21.5	12.3	7.7	7.7
62.5°	10910.6	3860.3	130.7	95.3	55.3	33.8	18.4	12.3	4.6	3.1	3.1
65°	10234.2	3136.2	109.2	72.3	36.9	16.9	7.7	4.6	1.5	0.0	0.0
67°	9170.3	2542.8	89.2	53.8	26.1	10.8	4.6	1.5	0.0	0.0	0.0
67.5°	8898.2	2424.4	86.1	50.7	23.1	9.2	3.1	1.5	0.0	0.0	0.0
70°	6982.7	1815.6	61.5	30.7	13.8	6.1	0.0	0.0	0.0	0.0	0.0
72.5°	4339.9	1027.0	44.6	18.4	9.2	3.1	0.0	0.0	0.0	0.0	0.0
75°	1640.4	359.7	30.7	12.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	510.4	136.8	18.4	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	172.2	52.3	12.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	106.1	21.5	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	66.1	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	3.1	1.5	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)