

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: P300937

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL4-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31154 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

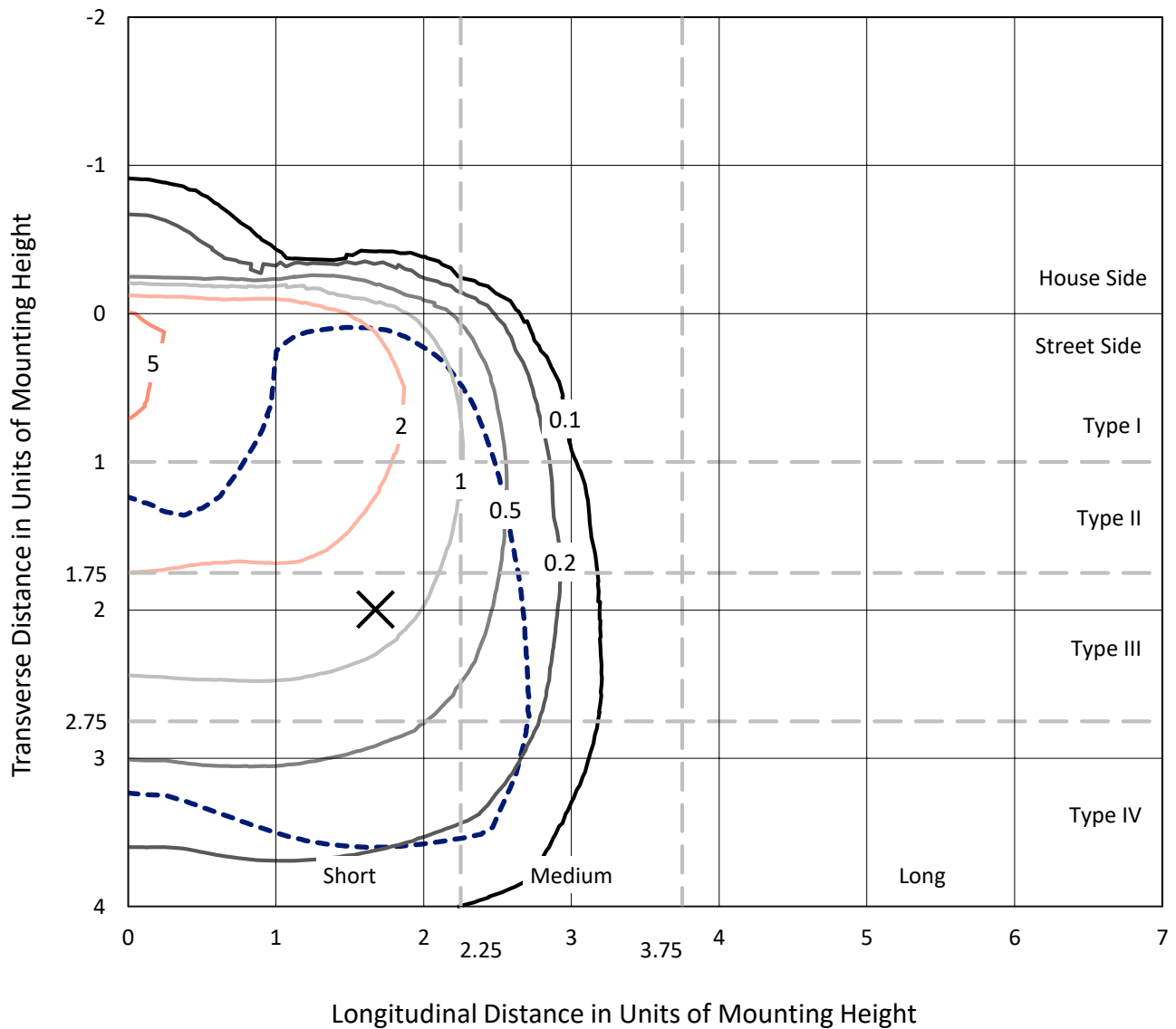
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

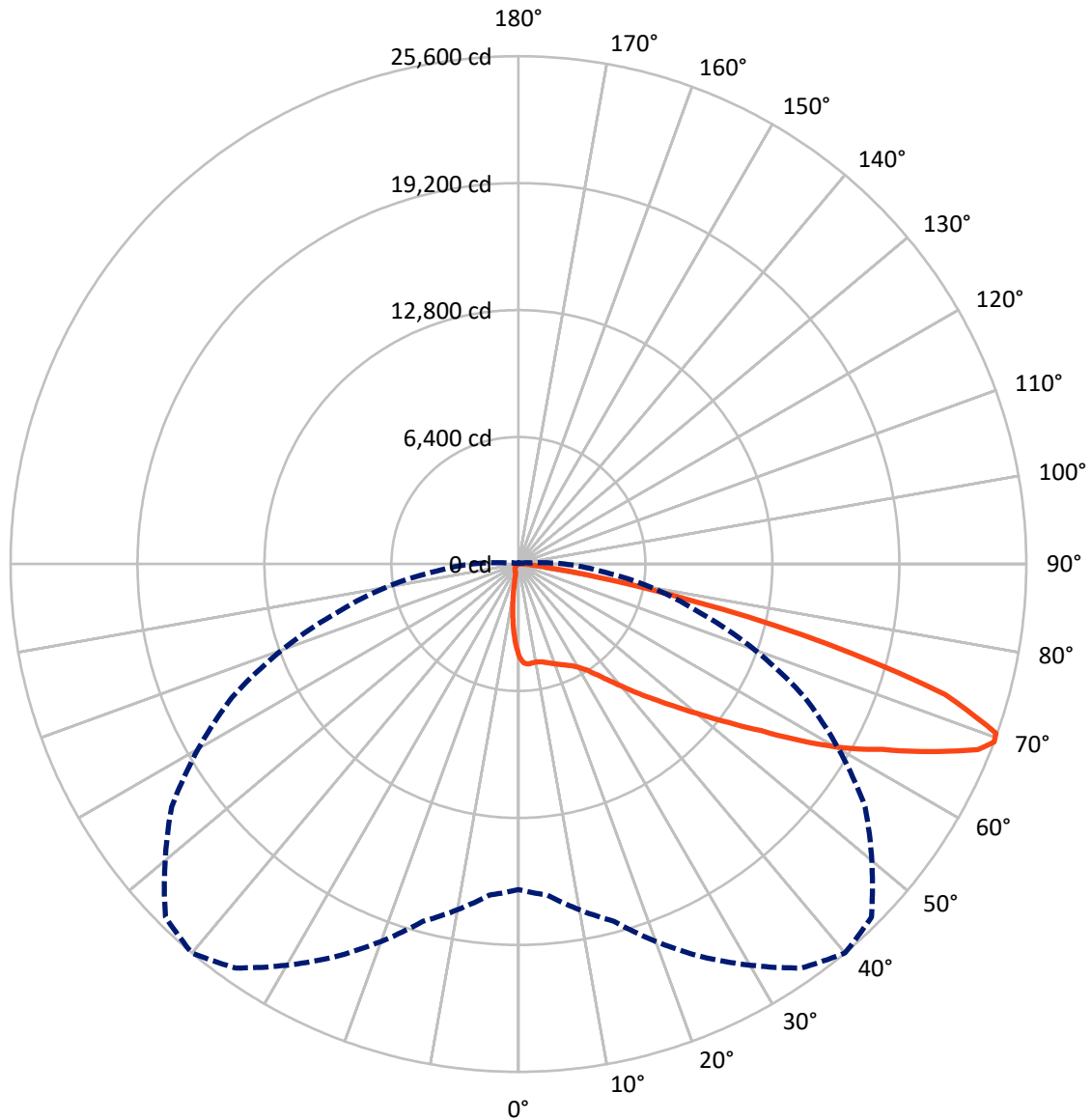
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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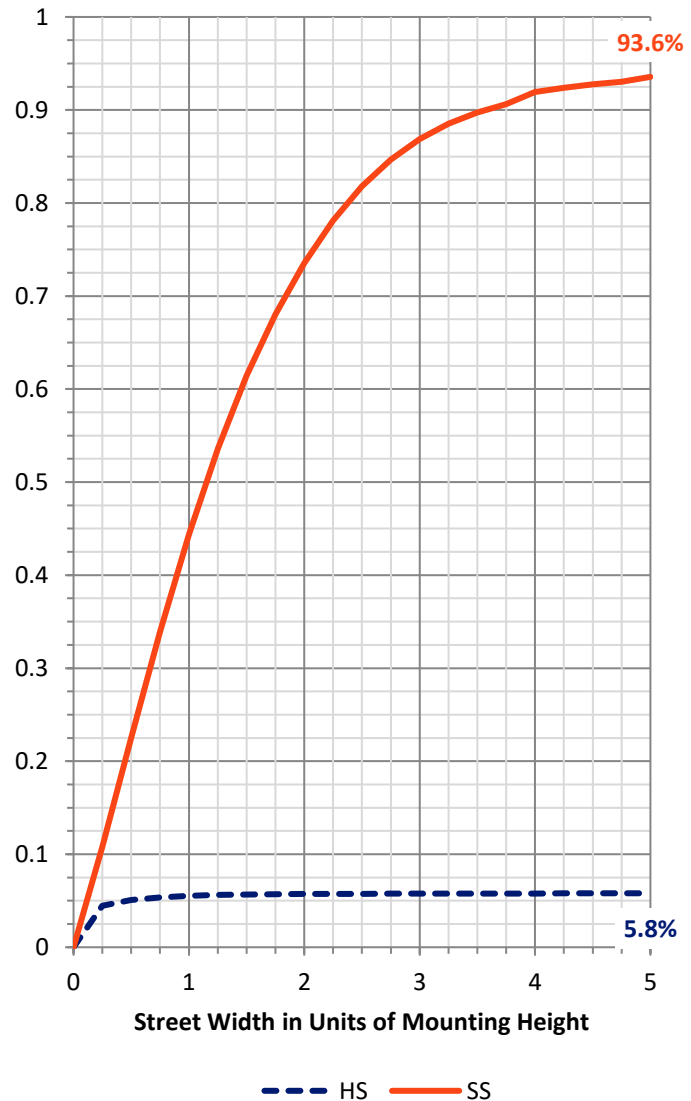
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1822.7	0.0	1822.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	29331.3	0.0	29331.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	31154.0	0.0	31154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.4	1.2
10°-20°	928.1	3.0
20°-30°	1563.2	5.0
30°-40°	2559.0	8.2
40°-50°	4430.8	14.2
50°-60°	6979.0	22.4
60°-70°	9114.3	29.3
70°-80°	4694.3	15.1
80°-90°	507.8	1.6
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°	31154.0	100.0
0°-180°	31154.0	100.0

Coefficient of Utilization



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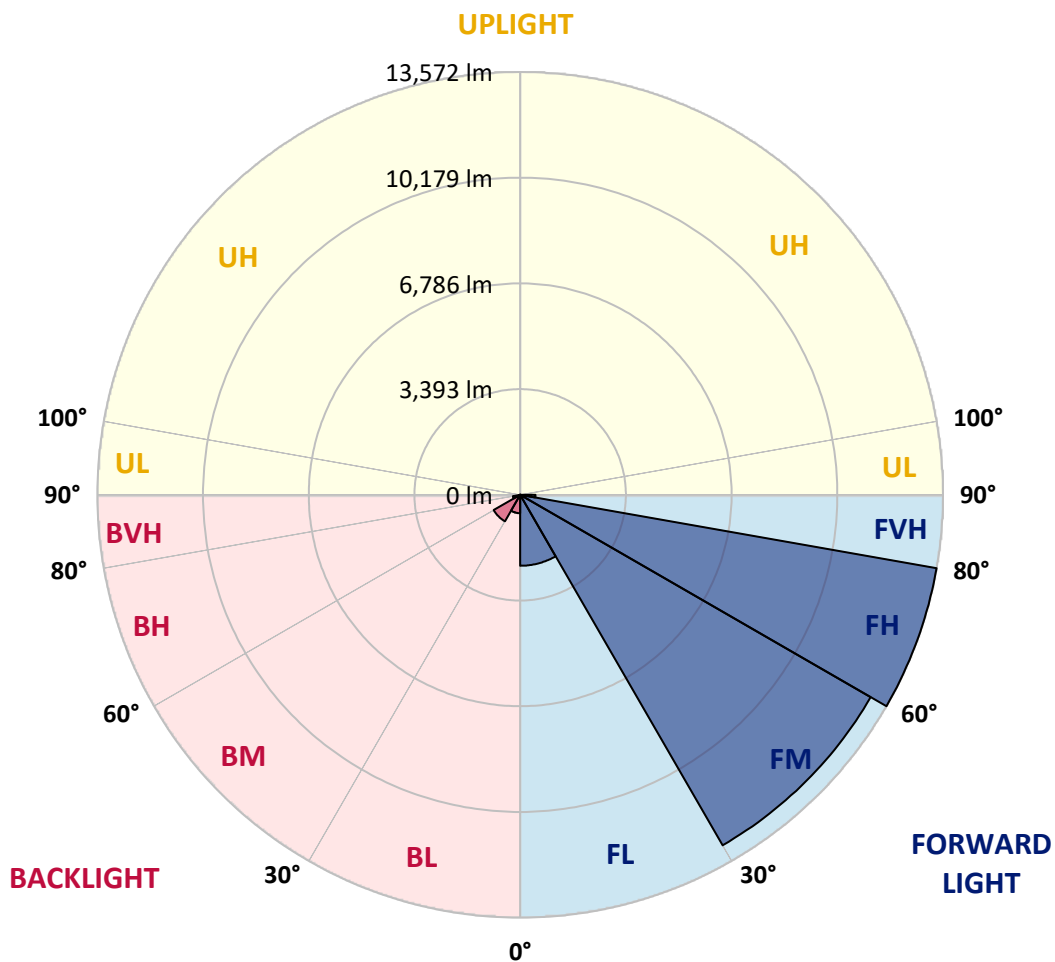
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2278.2	7.3			
FM	(30°-60°)	12989.2	41.7			
FH	(60°-80°)	13572.0	43.6			G5
FVH	(80°-90°)	491.8	1.6			G3/500
BL	(0°-30°)	590.4	1.9	B2/1000		
BM	(30°-60°)	979.6	3.1	B1/1000		
BH	(60°-80°)	236.7	0.8	B1/500		G1/500
BVH	(80°-90°)	15.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6
2.5°	5110.7	5082.9	5066.2	5044.0	5016.2	4992.1	4982.8	4914.2	4849.3	4760.3	4658.3
5°	5205.3	5196.1	5166.4	5136.7	5103.3	5066.2	5045.8	4964.2	4871.5	4741.7	4563.7
7.5°	5214.6	5203.5	5166.4	5125.6	5079.2	5034.7	4999.5	4917.9	4832.6	4700.9	4484.0
10°	5199.8	5186.8	5159.0	5114.5	5057.0	5014.3	4979.1	4901.2	4828.9	4710.2	4469.1
12.5°	5183.1	5170.1	5157.1	5134.9	5084.8	5055.1	5025.4	4951.3	4886.4	4786.2	4522.9
15°	5199.8	5192.3	5207.2	5197.9	5170.1	5144.1	5114.5	5047.7	4988.4	4904.9	4621.2
17.5°	5270.2	5270.2	5316.6	5322.1	5296.2	5259.1	5216.4	5149.7	5099.6	5029.2	4738.0
20°	5435.3	5429.7	5489.0	5500.2	5437.1	5379.6	5316.6	5235.0	5196.1	5151.5	4853.0
22.5°	5719.0	5693.0	5728.3	5717.1	5592.9	5503.9	5426.0	5325.9	5305.5	5285.1	4980.9
25°	6088.0	6073.2	6097.3	5987.9	5769.1	5648.5	5555.8	5442.7	5442.7	5463.1	5125.6
27.5°	6623.9	6568.3	6486.7	6293.9	5965.6	5811.7	5711.6	5591.0	5622.6	5698.6	5316.6
30°	7172.8	7111.7	6924.4	6627.7	6204.8	6043.5	5926.7	5800.6	5874.8	6013.8	5572.5
32.5°	7714.3	7645.7	7380.5	7006.0	6547.9	6386.6	6273.5	6134.4	6258.6	6492.3	5947.1
35°	8239.1	8177.9	7872.0	7430.6	7004.1	6870.6	6766.7	6646.2	6805.7	7132.1	6475.6
37.5°	8828.8	8762.1	8389.3	7910.9	7558.6	7462.1	7386.1	7265.6	7543.7	8022.2	7211.8
40°	9553.9	9440.8	8938.2	8461.7	8200.2	8153.8	8101.9	8085.2	8517.3	9179.3	8192.8
42.5°	10384.7	10199.2	9513.1	9042.1	8904.9	8938.2	8925.3	8999.4	9735.6	10618.3	9387.0
45°	11215.5	10976.2	10152.9	9661.5	9680.0	9796.8	9869.2	10165.9	11261.8	12268.8	10672.1
47.5°	11920.1	11684.6	10766.7	10330.9	10553.4	10783.4	10979.9	11541.8	12830.6	13893.2	11671.6
50°	12522.8	12300.3	11417.6	11067.1	11567.8	11938.7	12257.6	13090.3	14518.2	15130.1	12372.6
52.5°	13016.1	12867.7	12092.6	11910.9	12726.8	13270.1	13737.5	14735.1	16012.8	16135.2	12917.8
55°	13496.4	13390.7	12817.7	12914.1	14087.9	14827.8	15419.4	16480.1	17299.8	16973.4	13440.7
57.5°	14049.0	13952.6	13644.7	14186.2	15877.4	16808.4	17453.7	18026.7	18432.8	17830.1	13934.0
60°	14612.7	14557.1	14564.5	15599.3	17932.1	18825.9	19182.0	19330.3	19545.5	18636.8	13961.8
62.5°	15150.5	15256.2	15616.0	17171.8	19899.6	20585.8	20765.7	20912.2	20660.0	18764.8	12899.3
65°	16061.0	16233.5	17092.1	19276.6	22063.7	22798.1	22983.5	22481.0	20836.1	17110.6	10492.2
67.5°	16506.1	16821.3	18353.1	21238.5	24162.9	24978.9	24910.3	22583.0	18698.0	13047.6	6733.4
69°	16413.4	16749.0	18644.2	21839.4	24860.2	25600.1	25164.3	21335.0	15929.4	9451.9	4133.5
70°	16046.2	16385.5	18494.0	21817.1	24949.2	25535.2	24693.3	19793.9	13468.6	6911.4	2585.0
72.5°	13399.9	13692.9	16418.9	19719.8	22983.5	22506.9	20658.1	13713.3	6562.7	1882.2	582.3
75°	8248.4	8411.6	11781.1	14855.7	17359.1	16135.2	13763.4	6822.4	1956.4	532.2	322.7
77.5°	4357.9	4432.0	6449.6	8756.5	11004.1	9105.1	7054.2	2661.1	901.2	333.8	233.7
80°	2575.8	2631.4	3473.3	4003.7	4762.1	3977.7	2820.6	1633.7	645.3	209.5	207.7
82.5°	1474.3	1509.5	2518.3	2225.3	1876.7	1602.2	1403.8	1548.4	387.6	140.9	215.1
85°	541.5	548.9	1416.8	1693.1	1116.4	663.9	697.3	1283.3	103.8	89.0	168.8
87.5°	252.2	246.6	728.8	1036.6	652.8	421.0	543.3	281.9	40.8	57.5	46.4
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°	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6	4654.6
2.5°	4598.9	4530.3	4406.1	4278.1	4148.3	4048.2	3949.9	3872.0	3846.0	3797.8	3801.5
5°	4458.0	4331.9	4072.3	3809.0	3534.5	3308.3	3095.0	2922.5	2839.1	2753.8	2753.8
7.5°	4335.6	4152.0	3745.9	3317.5	2874.3	2501.6	2165.9	1913.7	1774.7	1663.4	1661.5
10°	4289.2	4040.8	3473.3	2859.5	2242.0	1733.9	1335.2	1079.3	947.6	862.3	858.6
12.5°	4309.6	4001.8	3263.8	2436.7	1661.5	1114.5	773.3	608.2	552.6	526.7	526.7
15°	4369.0	3990.7	3054.2	2023.2	1173.8	697.3	513.7	469.2	465.5	465.5	465.5
17.5°	4441.3	3994.4	2839.1	1620.8	799.2	498.8	443.2	437.6	441.3	441.3	441.3
20°	4515.5	3996.2	2607.3	1248.0	563.7	433.9	417.2	415.4	419.1	419.1	421.0
22.5°	4606.3	4005.5	2375.5	932.8	465.5	409.8	396.8	396.8	398.7	398.7	396.8
25°	4710.2	4024.1	2134.4	691.7	424.7	393.1	382.0	380.2	382.0	380.2	378.3
27.5°	4840.0	4050.0	1865.5	541.5	406.1	376.4	367.2	367.2	365.3	363.5	361.6
30°	5003.2	4079.7	1563.3	459.9	387.6	361.6	352.3	350.5	348.6	344.9	344.9
32.5°	5251.7	4144.6	1264.7	417.2	367.2	341.2	333.8	333.8	330.1	326.4	324.5
35°	5633.7	4272.6	997.7	391.3	344.9	319.0	309.7	309.7	306.0	304.1	302.3
37.5°	6162.2	4467.3	775.1	367.2	322.7	294.9	285.6	283.7	280.0	276.3	274.5
40°	6865.0	4708.3	610.1	344.9	300.4	270.7	263.3	259.6	252.2	246.6	246.6
42.5°	7747.7	4982.8	495.1	320.8	274.5	248.5	242.9	237.4	224.4	218.8	217.0
45°	8671.2	5229.4	419.1	293.0	248.5	226.2	222.5	213.3	196.6	191.0	191.0
47.5°	9336.9	5286.9	369.0	267.0	224.4	202.1	200.3	183.6	168.8	165.0	163.2
50°	9752.3	5173.8	328.2	241.1	202.1	179.9	174.3	153.9	144.6	140.9	139.1
52.5°	10032.3	4971.7	294.9	218.8	181.7	159.5	146.5	131.7	124.2	120.5	120.5
55°	10256.7	4686.1	261.5	198.4	165.0	142.8	124.2	113.1	105.7	102.0	102.0
57.5°	10319.8	4298.5	228.1	181.7	148.4	126.1	105.7	98.3	89.0	87.2	87.2
60°	9861.7	3599.4	202.1	161.3	133.5	109.4	92.7	83.4	74.2	72.3	70.5
62.5°	8654.5	2785.3	178.0	142.8	116.8	94.6	79.7	68.6	61.2	61.2	61.2
65°	6601.7	1867.4	155.8	124.2	102.0	79.7	68.6	55.6	51.9	51.9	53.8
67.5°	3951.7	1016.2	133.5	105.7	87.2	66.8	57.5	48.2	46.4	48.2	48.2
69°	2316.2	597.1	120.5	94.6	76.0	59.3	50.1	42.7	46.4	48.2	48.2
70°	1429.7	402.4	111.3	85.3	68.6	53.8	46.4	40.8	44.5	46.4	46.4
72.5°	398.7	207.7	89.0	66.8	55.6	44.5	37.1	37.1	42.7	44.5	44.5
75°	259.6	153.9	68.6	50.1	42.7	35.2	31.5	35.2	40.8	42.7	42.7
77.5°	215.1	126.1	55.6	40.8	35.2	33.4	29.7	31.5	37.1	38.9	38.9
80°	196.6	89.0	44.5	37.1	31.5	29.7	27.8	26.0	33.4	35.2	35.2
82.5°	187.3	70.5	38.9	33.4	29.7	26.0	24.1	26.0	29.7	31.5	33.4
85°	116.8	46.4	35.2	31.5	26.0	24.1	24.1	24.1	27.8	29.7	29.7
87.5°	42.7	37.1	31.5	26.0	22.3	22.3	22.3	22.3	24.1	27.8	27.8
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)