

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: P300945

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300945
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-08-LED-E1-SL4-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K 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: 36492.9 lumens
Efficiency: N/A
Efficacy: 109.3 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

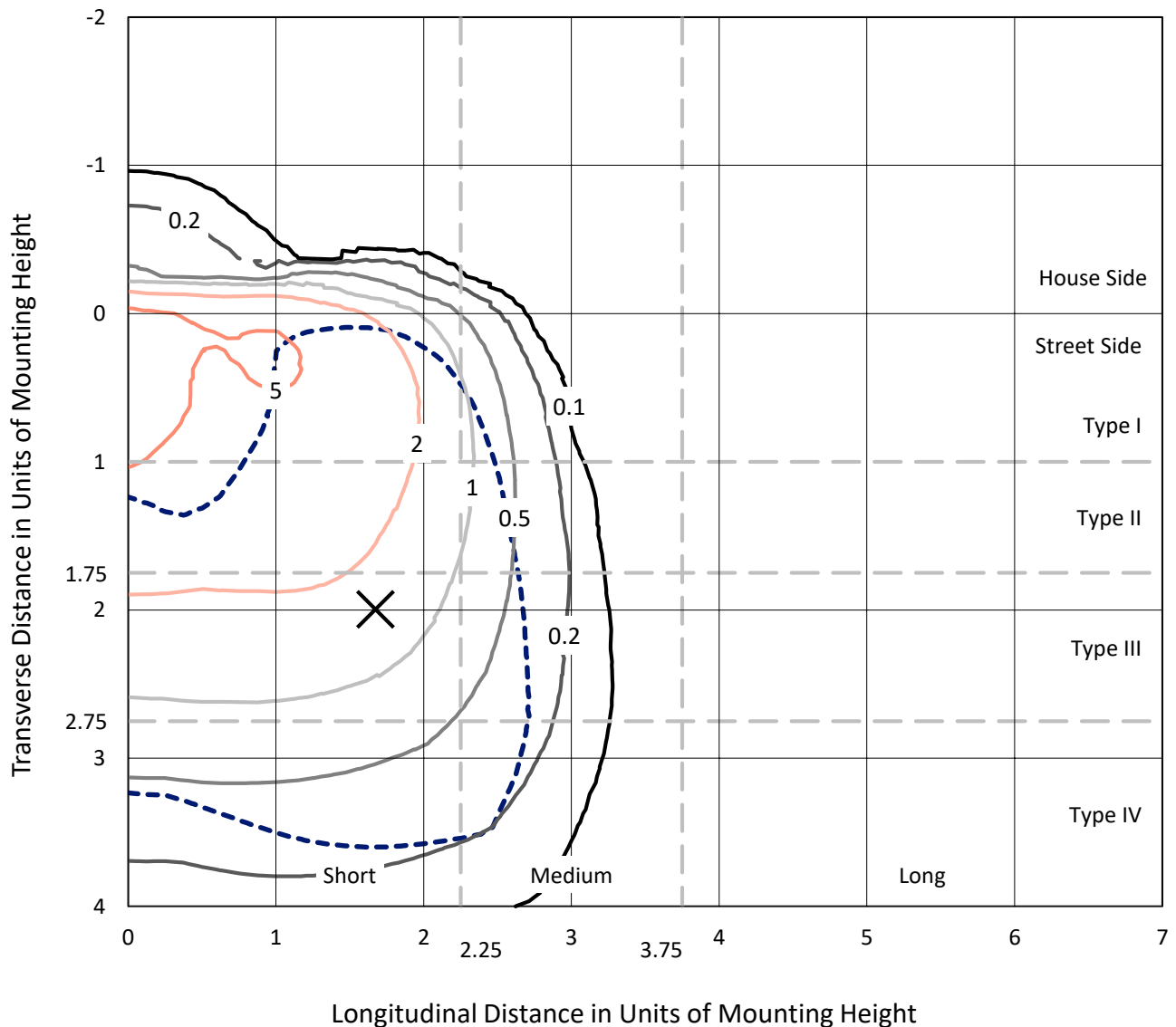
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

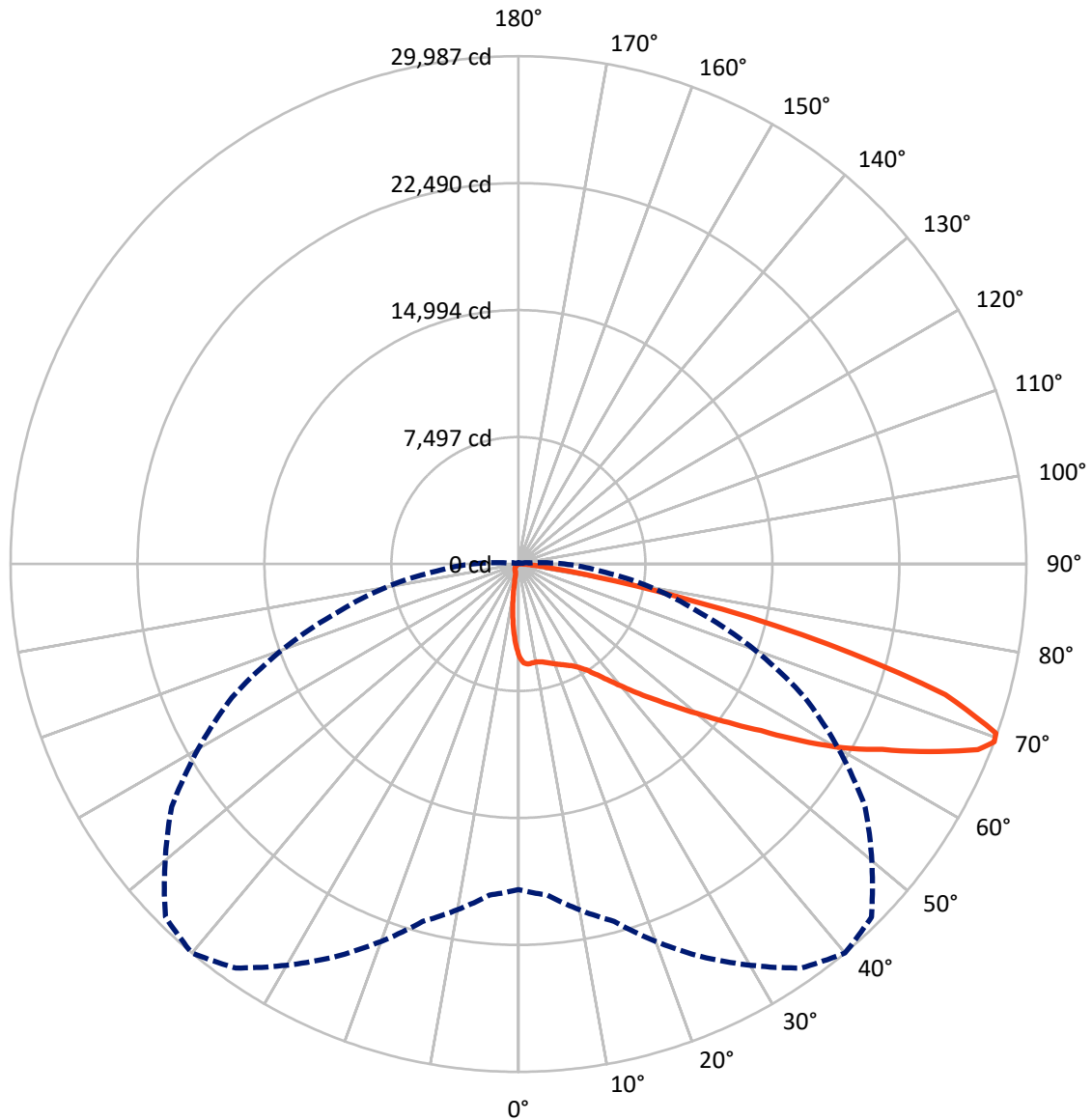
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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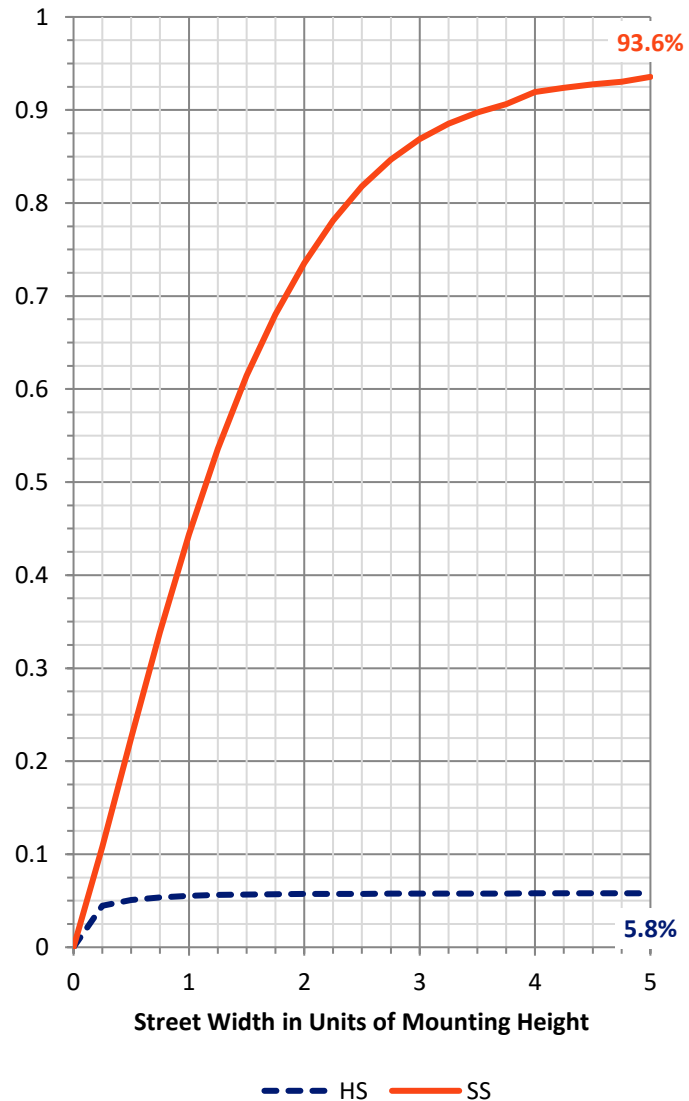
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.0	0.0	2135.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	34357.9	0.0	34357.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	36492.9	0.0	36492.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.1	1.2
10°-20°	1087.1	3.0
20°-30°	1831.1	5.0
30°-40°	2997.6	8.2
40°-50°	5190.2	14.2
50°-60°	8175.0	22.4
60°-70°	10676.3	29.3
70°-80°	5498.8	15.1
80°-90°	594.8	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°	36492.9	100.0
0°-180°	36492.9	100.0



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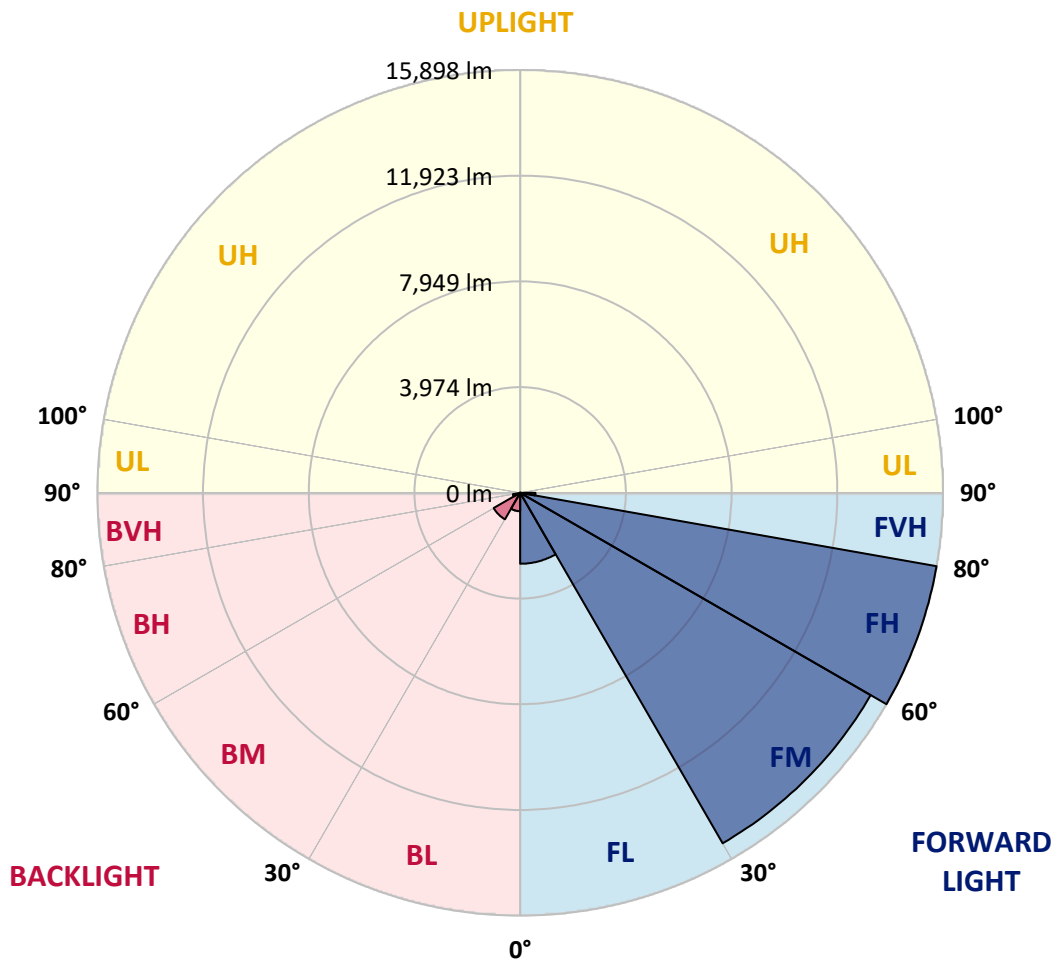
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.7	7.3			
FM	(30°-60°)	15215.3	41.7			
FH	(60°-80°)	15897.8	43.6			G5
FVH	(80°-90°)	576.1	1.6			G4/750
BL	(0°-30°)	691.6	1.9	B2/1000		
BM	(30°-60°)	1147.5	3.1	B2/2500		
BH	(60°-80°)	277.2	0.8	B1/500		G1/500
BVH	(80°-90°)	18.7	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°	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2
2.5°	5986.6	5954.0	5934.5	5908.4	5875.8	5847.6	5836.7	5756.3	5680.3	5576.0	5456.6
5°	6097.4	6086.5	6051.8	6017.0	5977.9	5934.5	5910.6	5815.0	5706.4	5554.3	5345.8
7.5°	6108.2	6095.2	6051.8	6004.0	5949.7	5897.5	5856.3	5760.7	5660.8	5506.5	5252.4
10°	6090.9	6075.6	6043.1	5990.9	5923.6	5873.6	5832.4	5741.1	5656.4	5517.4	5235.0
12.5°	6071.3	6056.1	6040.9	6014.8	5956.2	5921.4	5886.7	5799.8	5723.8	5606.5	5298.0
15°	6090.9	6082.2	6099.5	6088.7	6056.1	6025.7	5990.9	5912.7	5843.2	5745.5	5413.1
17.5°	6173.4	6173.4	6227.7	6234.2	6203.8	6160.4	6110.4	6032.2	5973.6	5891.0	5550.0
20°	6366.7	6360.2	6429.7	6442.8	6368.9	6301.6	6227.7	6132.1	6086.5	6034.4	5684.7
22.5°	6699.1	6668.7	6709.9	6696.9	6551.4	6447.1	6355.9	6238.6	6214.7	6190.8	5834.5
25°	7131.3	7114.0	7142.2	7014.0	6757.7	6616.5	6507.9	6375.4	6375.4	6399.3	6004.0
27.5°	7759.1	7693.9	7598.4	7372.5	6988.0	6807.7	6690.4	6549.2	6586.1	6675.2	6227.7
30°	8402.1	8330.4	8111.0	7763.5	7268.2	7079.2	6942.4	6794.6	6881.5	7044.5	6527.5
32.5°	9036.4	8956.0	8645.4	8206.6	7670.0	7481.1	7348.6	7185.6	7331.2	7604.9	6966.3
35°	9651.1	9579.4	9221.0	8704.0	8204.4	8048.0	7926.4	7785.2	7972.0	8354.3	7585.3
37.5°	10341.9	10263.7	9827.0	9266.6	8853.9	8740.9	8651.9	8510.7	8836.5	9396.9	8447.7
40°	11191.2	11058.7	10470.0	9911.8	9605.5	9551.2	9490.4	9470.8	9976.9	10752.4	9596.8
42.5°	12164.3	11947.1	11143.4	10591.7	10430.9	10470.0	10454.8	10541.7	11404.1	12438.0	10995.7
45°	13137.5	12857.3	11892.8	11317.2	11338.9	11475.7	11560.5	11908.0	13191.8	14371.3	12501.0
47.5°	13962.9	13687.0	12611.8	12101.3	12362.0	12631.4	12861.6	13519.8	15029.5	16274.1	13671.8
50°	14668.9	14408.2	13374.2	12963.7	13550.2	13984.6	14358.3	15333.6	17006.2	17723.0	14492.9
52.5°	15246.7	15072.9	14164.9	13952.1	14907.8	15544.3	16091.7	17260.3	18757.0	18900.3	15131.6
55°	15809.3	15685.5	15014.3	15127.2	16502.2	17368.9	18061.9	19304.4	20264.5	19882.2	15744.1
57.5°	16456.6	16343.7	15983.1	16617.3	18598.4	19688.8	20444.8	21116.0	21591.7	20885.7	16321.9
60°	17117.0	17051.8	17060.5	18272.6	21005.2	22052.2	22469.3	22643.0	22895.0	21830.6	16354.5
62.5°	17746.9	17870.7	18292.1	20114.6	23309.9	24113.6	24324.3	24495.9	24200.5	21980.5	15109.8
65°	18813.4	19015.5	20021.2	22580.0	25844.9	26705.1	26922.3	26333.6	24406.9	20042.9	12290.3
67.5°	19334.8	19704.0	21498.3	24878.2	28303.8	29259.6	29179.2	26453.1	21902.3	15283.6	7887.3
69°	19226.2	19619.3	21839.3	25582.0	29120.5	29987.3	29476.8	24991.2	18659.2	11071.7	4841.8
70°	18796.1	19193.6	21663.4	25556.0	29224.8	29911.2	28925.0	23186.1	15776.7	8095.8	3028.1
72.5°	15696.3	16039.5	19232.7	23099.2	26922.3	26364.0	24198.3	16063.4	7687.4	2204.8	682.1
75°	9662.0	9853.1	13800.0	17401.5	20334.0	18900.3	16122.1	7991.5	2291.7	623.4	378.0
77.5°	5104.7	5191.6	7554.9	10257.1	12889.8	10665.5	8263.1	3117.1	1055.7	391.0	273.7
80°	3017.2	3082.4	4068.5	4689.8	5578.2	4659.4	3303.9	1913.7	755.9	245.5	243.3
82.5°	1726.9	1768.2	2949.9	2606.6	2198.3	1876.8	1644.4	1813.8	454.0	165.1	252.0
85°	634.3	643.0	1659.6	1983.2	1307.7	777.6	816.7	1503.2	121.6	104.3	197.7
87.5°	295.4	288.9	853.7	1214.3	764.6	493.1	636.5	330.2	47.8	67.3	54.3
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°	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2	5452.2
2.5°	5387.1	5306.7	5161.2	5011.3	4859.2	4741.9	4626.8	4535.6	4505.1	4448.7	4453.0
5°	5222.0	5074.3	4770.2	4461.7	4140.2	3875.2	3625.4	3423.4	3325.6	3225.7	3225.7
7.5°	5078.6	4863.6	4387.8	3886.1	3366.9	2930.3	2537.1	2241.7	2078.8	1948.5	1946.3
10°	5024.3	4733.2	4068.5	3349.5	2626.2	2031.0	1564.0	1264.2	1110.0	1010.1	1005.7
12.5°	5048.2	4687.6	3823.1	2854.3	1946.3	1305.5	905.8	712.5	647.3	616.9	616.9
15°	5117.7	4674.6	3577.6	2369.9	1375.0	816.7	601.7	549.6	545.2	545.2	545.2
17.5°	5202.4	4678.9	3325.6	1898.5	936.2	584.3	519.2	512.6	517.0	517.0	517.0
20°	5289.3	4681.1	3054.1	1461.9	660.3	508.3	488.7	486.6	490.9	490.9	493.1
22.5°	5395.8	4692.0	2782.6	1092.6	545.2	480.1	464.9	464.9	467.0	467.0	464.9
25°	5517.4	4713.7	2500.2	810.2	497.4	460.5	447.5	445.3	447.5	445.3	443.1
27.5°	5669.4	4744.1	2185.2	634.3	475.7	441.0	430.1	430.1	427.9	425.8	423.6
30°	5860.6	4778.8	1831.2	538.7	454.0	423.6	412.7	410.5	408.4	404.0	404.0
32.5°	6151.7	4854.9	1481.4	488.7	430.1	399.7	391.0	391.0	386.7	382.3	380.1
35°	6599.2	5004.8	1168.6	458.3	404.0	373.6	362.8	362.8	358.4	356.2	354.1
37.5°	7218.2	5232.8	908.0	430.1	378.0	345.4	334.5	332.3	328.0	323.7	321.5
40°	8041.5	5515.2	714.7	404.0	351.9	317.1	308.5	304.1	295.4	288.9	288.9
42.5°	9075.5	5836.7	580.0	375.8	321.5	291.1	284.6	278.0	262.8	256.3	254.1
45°	10157.2	6125.6	490.9	343.2	291.1	265.0	260.7	249.8	230.3	223.7	223.7
47.5°	10937.0	6192.9	432.3	312.8	262.8	236.8	234.6	215.0	197.7	193.3	191.2
50°	11423.6	6060.4	384.5	282.4	236.8	210.7	204.2	180.3	169.4	165.1	162.9
52.5°	11751.6	5823.7	345.4	256.3	212.9	186.8	171.6	154.2	145.5	141.2	141.2
55°	12014.5	5489.2	306.3	232.4	193.3	167.3	145.5	132.5	123.8	119.5	119.5
57.5°	12088.3	5035.2	267.2	212.9	173.8	147.7	123.8	115.1	104.3	102.1	102.1
60°	11551.8	4216.2	236.8	189.0	156.4	128.2	108.6	97.7	86.9	84.7	82.5
62.5°	10137.7	3262.6	208.5	167.3	136.8	110.8	93.4	80.4	71.7	71.7	71.7
65°	7733.0	2187.4	182.5	145.5	119.5	93.4	80.4	65.2	60.8	60.8	63.0
67.5°	4629.0	1190.4	156.4	123.8	102.1	78.2	67.3	56.5	54.3	56.5	56.5
69°	2713.1	699.4	141.2	110.8	89.1	69.5	58.6	50.0	54.3	56.5	56.5
70°	1674.8	471.4	130.3	99.9	80.4	63.0	54.3	47.8	52.1	54.3	54.3
72.5°	467.0	243.3	104.3	78.2	65.2	52.1	43.4	43.4	50.0	52.1	52.1
75°	304.1	180.3	80.4	58.6	50.0	41.3	36.9	41.3	47.8	50.0	50.0
77.5°	252.0	147.7	65.2	47.8	41.3	39.1	34.8	36.9	43.4	45.6	45.6
80°	230.3	104.3	52.1	43.4	36.9	34.8	32.6	30.4	39.1	41.3	41.3
82.5°	219.4	82.5	45.6	39.1	34.8	30.4	28.2	30.4	34.8	36.9	39.1
85°	136.8	54.3	41.3	36.9	30.4	28.2	28.2	28.2	32.6	34.8	34.8
87.5°	50.0	43.4	36.9	30.4	26.1	26.1	26.1	26.1	28.2	32.6	32.6
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)