

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: P941094

Luminaire Tested: **GALN-SB4C-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18106 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 200.7
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: 24 FT



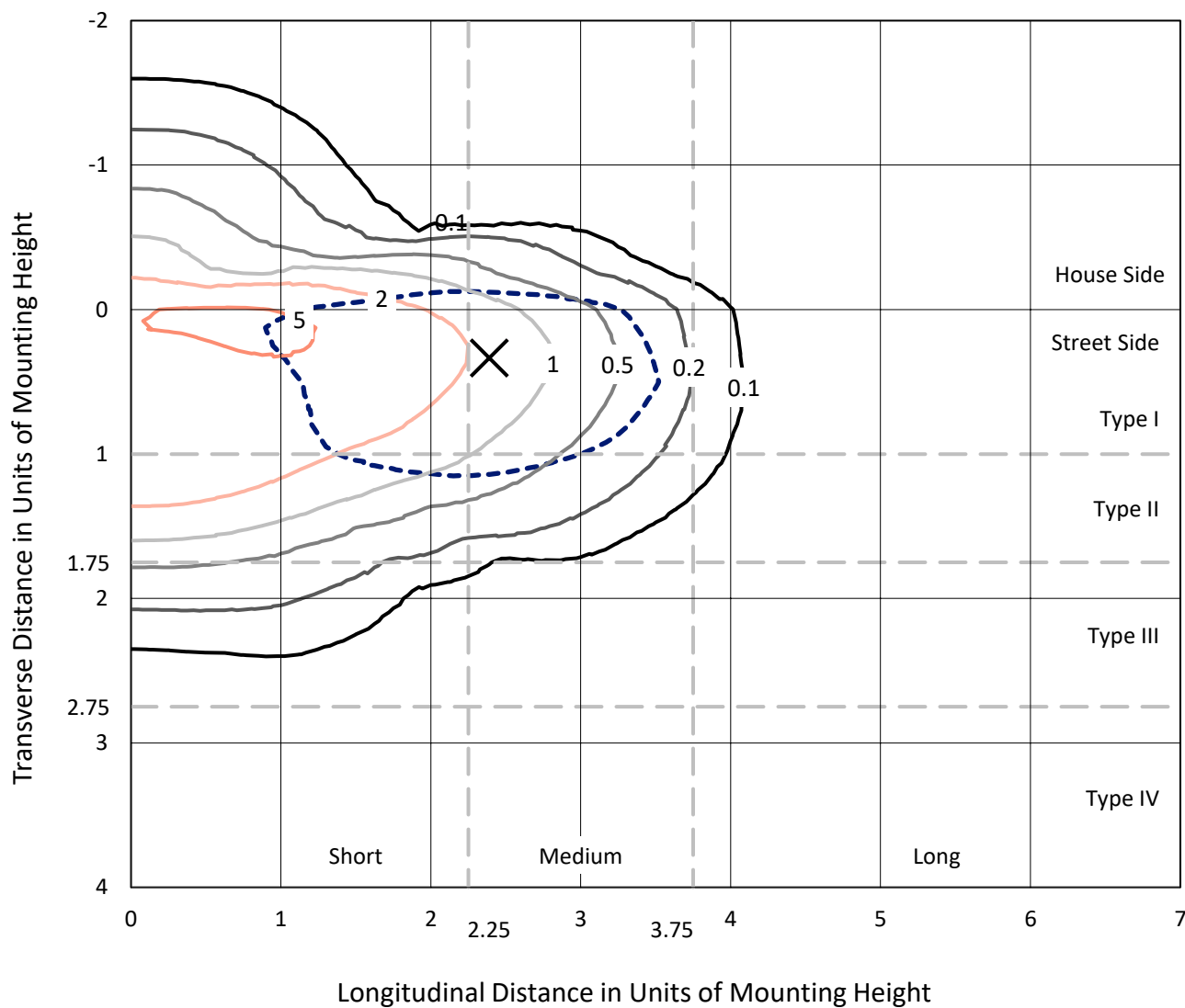
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Iso-Footcandle Lines of Horizontal Illumination

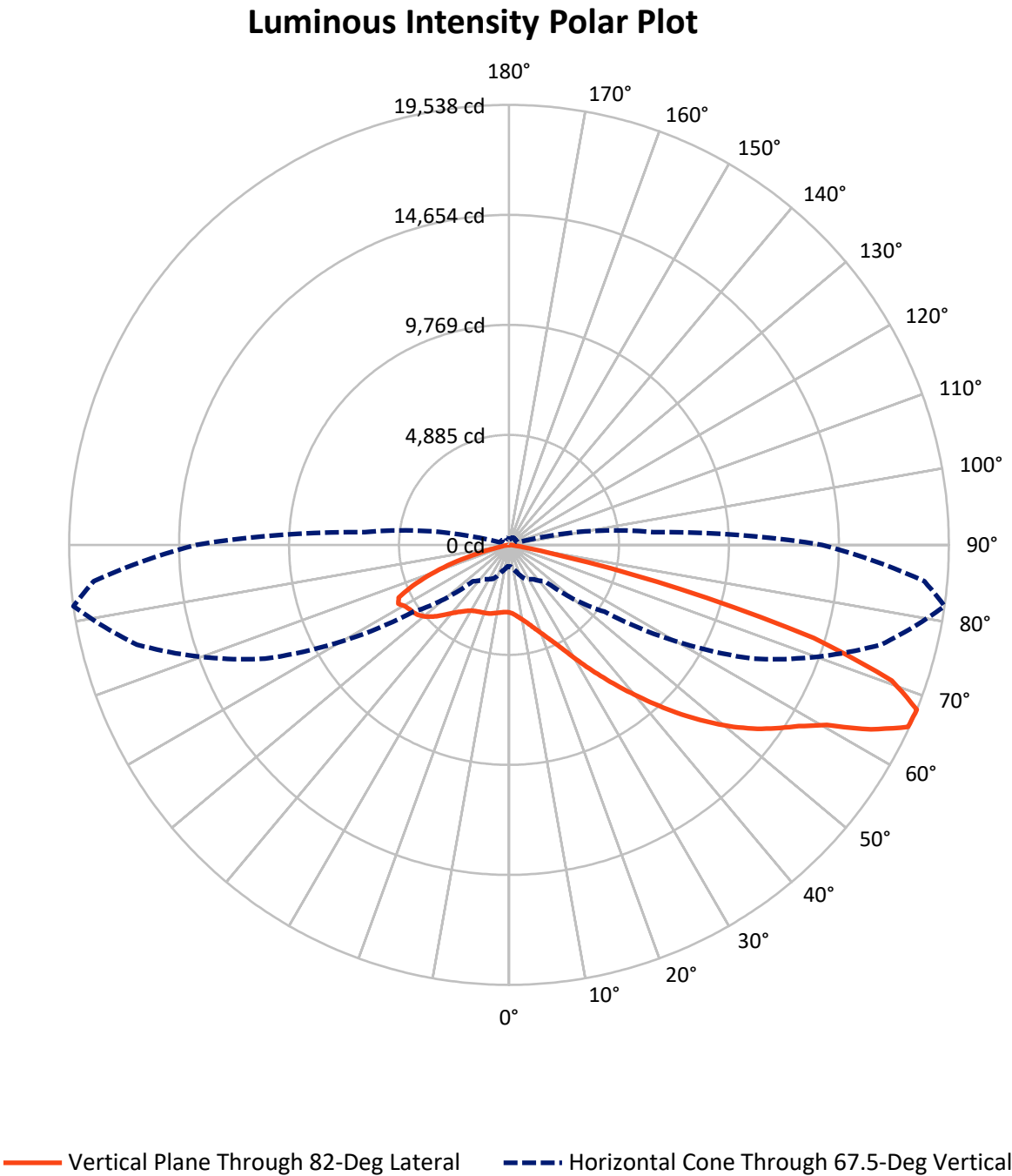
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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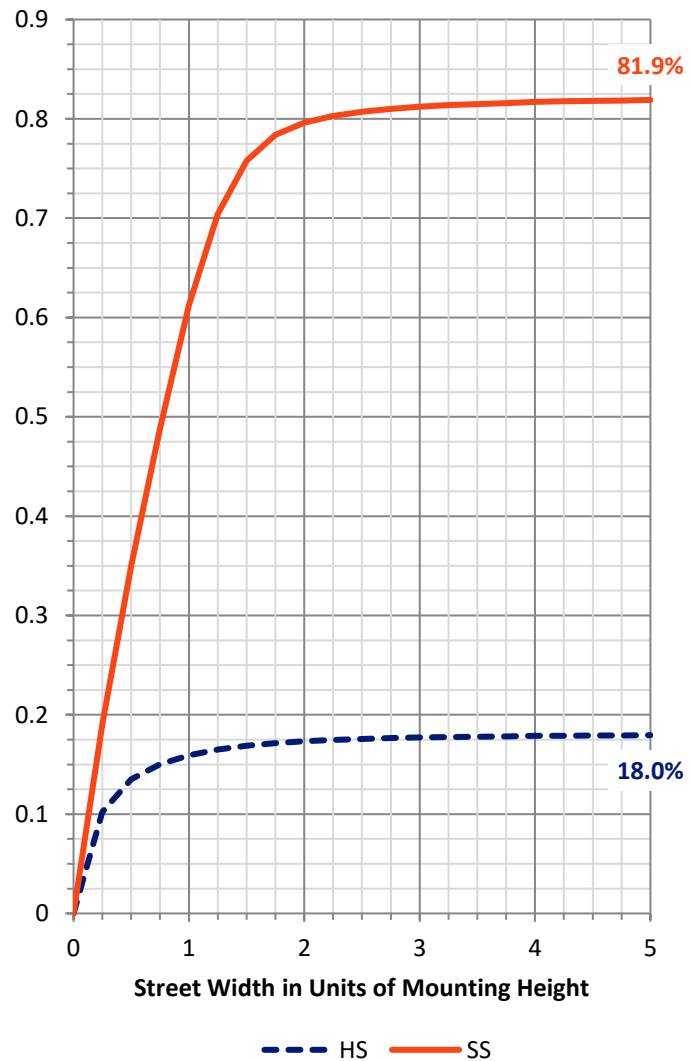
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.7	0.0	3279.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14826.3	0.0	14826.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	18106.0	0.0	18106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.5
10°-20°	694.4	3.8
20°-30°	1112.3	6.1
30°-40°	1966.8	10.9
40°-50°	3446.1	19.0
50°-60°	4596.1	25.4
60°-70°	4278.8	23.6
70°-80°	1642.2	9.1
80°-90°	102.0	0.6
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°	18106.0	100.0
0°-180°	18106.0	100.0

Coefficient of Utilization

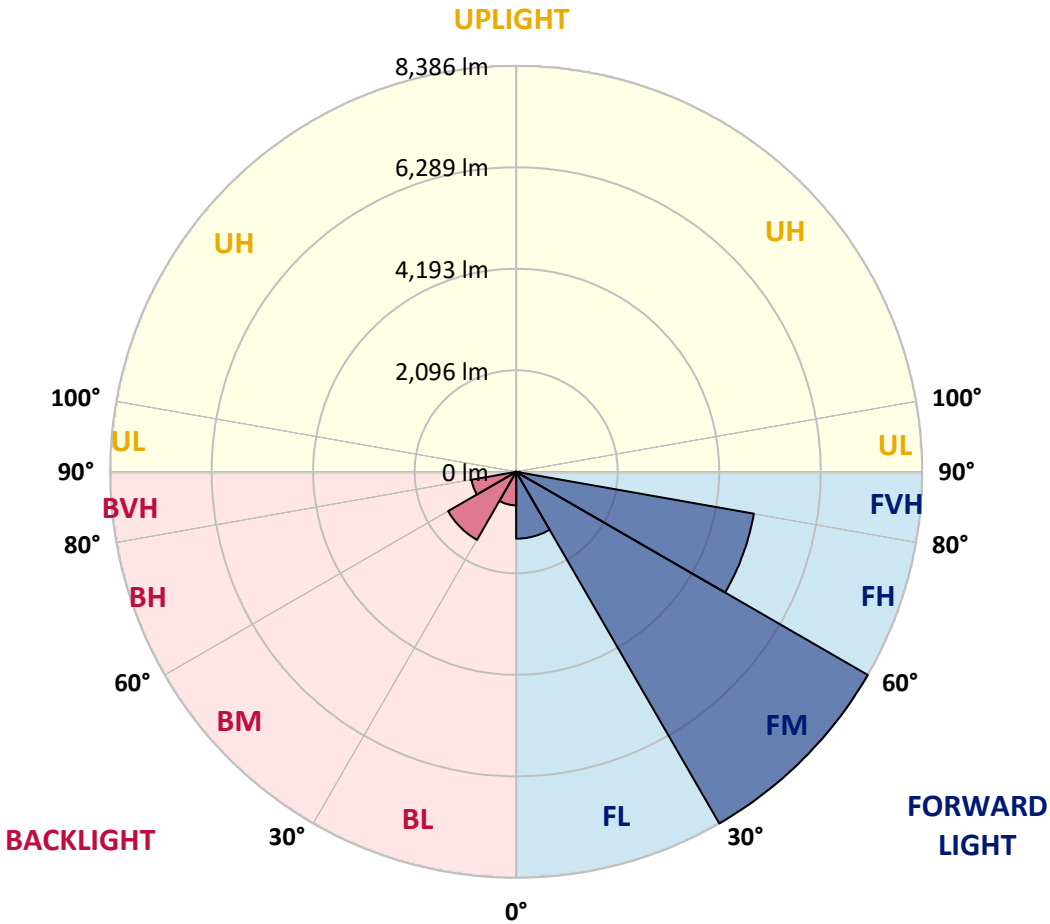


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.3	7.6			
FM	(30°-60°)	8386.0	46.3			
FH	(60°-80°)	4984.9	27.5			G2/5000
FVH	(80°-90°)	74.2	0.4			G1/100
BL	(0°-30°)	692.7	3.8	B2/1000		
BM	(30°-60°)	1623.1	9.0	B2/2500		
BH	(60°-80°)	936.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	27.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6
2.5°	3170.3	3188.6	3178.1	3172.9	3163.8	3150.8	3140.3	3107.7	3073.9	3051.7	3043.9
5°	3234.2	3252.4	3251.1	3256.4	3262.9	3266.8	3264.2	3227.7	3179.4	3141.6	3119.5
7.5°	3179.4	3200.3	3217.3	3243.3	3288.9	3337.2	3360.6	3352.8	3303.3	3251.1	3223.8
10°	3024.3	3046.5	3086.9	3148.2	3244.6	3348.9	3436.3	3476.7	3445.4	3388.0	3350.2
12.5°	2740.1	2762.3	2841.8	2974.8	3136.4	3317.6	3484.5	3592.7	3600.5	3543.1	3498.8
15°	2420.8	2442.9	2527.7	2694.5	2940.9	3231.6	3510.6	3715.2	3784.3	3734.8	3681.3
17.5°	2222.6	2242.2	2306.0	2440.3	2697.1	3059.5	3501.4	3845.6	4003.3	3964.2	3900.3
20°	2162.6	2179.6	2209.6	2303.4	2517.2	2880.9	3441.5	3968.1	4239.3	4217.1	4145.4
22.5°	2226.5	2242.2	2251.3	2293.0	2427.3	2763.6	3365.9	4093.3	4513.0	4515.6	4428.3
25°	2373.8	2389.5	2379.0	2405.1	2463.8	2727.1	3337.2	4240.6	4857.2	4885.8	4786.8
27.5°	2616.3	2617.6	2592.8	2591.5	2600.7	2781.9	3367.2	4398.3	5291.3	5344.7	5222.2
30°	3102.5	3083.0	2987.8	2884.8	2837.9	2946.1	3450.6	4584.7	5803.6	5898.7	5744.9
32.5°	3852.1	3823.4	3648.7	3402.4	3154.7	3210.7	3600.5	4797.2	6361.5	6533.6	6345.9
35°	4665.5	4657.7	4475.2	4108.9	3676.1	3587.5	3844.3	5076.2	6970.3	7244.0	7021.1
37.5°	5421.6	5417.7	5313.4	4881.9	4355.3	4112.8	4235.4	5441.2	7622.1	8018.4	7755.0
40°	6112.5	6124.2	6020.0	5634.1	5103.5	4786.8	4767.2	5892.2	8346.9	8861.8	8548.9
42.5°	6709.6	6722.6	6617.0	6331.5	5842.7	5532.4	5420.3	6444.9	9054.7	9767.8	9397.6
45°	7115.0	7195.8	7180.2	6952.0	6601.4	6279.4	6205.1	7138.4	9861.6	10728.5	10294.4
47.5°	7229.7	7304.0	7421.3	7452.6	7238.8	6922.0	7010.7	7974.0	10677.7	11690.6	11196.5
50°	6946.8	7015.9	7259.7	7584.3	7732.9	7635.1	7794.1	8869.6	11513.3	12650.0	12081.6
52.5°	6388.9	6459.3	6766.9	7280.5	7886.7	8194.3	8580.2	9752.1	12322.8	13558.6	12919.8
55°	5582.0	5656.3	6051.2	6632.6	7593.4	8425.1	9235.9	10633.4	13064.5	14375.9	13675.9
57.5°	4484.3	4539.1	4949.7	5763.2	6855.6	8195.6	9719.5	11595.4	13763.3	15179.0	14425.5
60°	2922.6	2970.9	3448.0	4355.3	5632.8	7429.1	9816.0	12668.2	14691.4	16223.1	15435.8
62.5°	1943.6	1976.2	2259.1	2925.2	3966.8	5957.4	9251.6	13524.7	16052.4	18040.3	17168.2
65°	1333.6	1366.2	1649.0	2113.1	2562.9	3940.7	7628.6	13411.3	17285.6	19483.4	18452.3
67.5°	951.6	979.0	1218.9	1656.9	1855.0	2289.1	5171.3	11961.7	17108.3	19538.1	18521.4
70°	681.8	697.4	895.6	1290.6	1474.4	1375.3	2875.7	9148.6	14979.5	18041.6	17110.9
72.5°	477.1	482.3	621.8	982.9	1187.6	1003.8	1368.8	6099.5	11329.5	14160.9	13265.3
75°	323.3	329.8	418.5	720.9	952.9	766.5	724.8	3270.7	6650.9	7838.5	7026.3
77.5°	198.1	200.8	269.8	492.8	713.1	584.0	466.7	1385.7	2573.3	2526.3	2153.5
80°	112.1	112.1	172.1	306.3	486.2	376.7	327.2	589.2	814.7	715.7	630.9
82.5°	62.6	63.9	125.1	190.3	322.0	222.9	179.9	272.4	352.0	311.6	271.1
85°	26.1	28.7	76.9	89.9	153.8	110.8	73.0	114.7	130.4	116.0	84.7
87.5°	2.6	3.9	23.5	16.9	18.3	22.2	10.4	22.2	18.3	18.3	13.0
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°	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6	2999.6
2.5°	3019.1	2999.6	2950.0	2892.7	2817.0	2780.5	2731.0	2697.1	2668.4	2671.0	2645.0
5°	3077.8	3028.2	2917.4	2779.2	2607.2	2484.6	2354.3	2264.3	2191.3	2175.7	2140.5
7.5°	3158.6	3080.4	2886.1	2637.2	2346.5	2126.1	1929.3	1802.9	1712.9	1684.2	1655.6
10°	3262.9	3149.5	2845.7	2458.6	2040.1	1759.8	1548.7	1449.6	1388.3	1367.5	1351.8
12.5°	3384.1	3229.0	2792.3	2240.9	1724.6	1454.8	1320.5	1271.0	1251.4	1244.9	1241.0
15°	3536.6	3328.1	2711.5	1982.8	1457.4	1268.4	1211.0	1204.5	1207.1	1204.5	1203.2
17.5°	3717.8	3436.3	2579.8	1716.8	1277.5	1173.2	1152.4	1157.6	1164.1	1162.8	1160.2
20°	3916.0	3543.1	2411.6	1480.9	1155.0	1105.4	1093.7	1098.9	1104.1	1101.5	1100.2
22.5°	4141.5	3657.9	2225.2	1297.1	1072.9	1042.9	1029.8	1031.1	1031.1	1025.9	1023.3
25°	4411.3	3784.3	2029.7	1166.7	1010.3	986.8	971.2	966.0	958.1	942.5	939.9
27.5°	4733.3	3918.6	1842.0	1075.5	960.7	938.6	920.3	907.3	887.7	861.7	859.1
30°	5095.7	4081.5	1682.9	1018.1	921.6	899.5	878.6	859.1	830.4	797.8	795.2
32.5°	5522.0	4256.2	1566.9	980.3	886.4	863.0	838.2	814.7	783.5	750.9	752.2
35°	6030.4	4467.4	1499.1	954.2	859.1	827.8	800.4	774.3	750.9	722.2	719.6
37.5°	6581.8	4691.6	1478.3	941.2	840.8	792.6	761.3	743.0	740.4	723.5	722.2
40°	7185.4	4957.5	1493.9	933.4	821.3	758.7	724.8	720.9	727.4	697.4	698.7
42.5°	7824.1	5273.0	1520.0	924.2	793.9	724.8	692.2	692.2	687.0	645.3	645.3
45°	8515.0	5636.7	1546.1	902.1	761.3	690.9	666.1	657.0	634.8	594.4	593.1
47.5°	9211.1	6006.9	1565.6	861.7	722.2	662.2	640.1	619.2	586.6	550.1	548.8
50°	9872.1	6339.3	1544.7	801.7	677.9	634.8	611.4	582.7	547.5	522.7	518.8
52.5°	10462.6	6627.4	1456.1	731.3	630.9	606.2	585.3	555.3	526.6	500.6	498.0
55°	10976.2	6860.8	1299.7	664.8	589.2	581.4	560.5	522.7	483.6	461.5	458.9
57.5°	11468.9	7038.1	1104.1	610.1	551.4	554.0	522.7	488.8	452.3	428.9	426.3
60°	12124.7	7275.3	906.0	559.2	511.0	518.8	484.9	460.2	414.5	384.6	380.6
62.5°	13172.7	7644.2	719.6	496.7	464.1	466.7	452.3	422.4	367.6	332.4	329.8
65°	14004.4	7508.7	567.1	428.9	410.6	414.5	414.5	382.0	323.3	282.9	279.0
67.5°	13910.6	6429.3	452.3	362.4	359.8	362.4	371.5	344.1	286.8	254.2	249.0
70°	12814.3	5114.0	362.4	301.1	312.9	306.3	332.4	314.2	258.1	225.5	221.6
72.5°	10456.1	3683.9	276.4	249.0	239.9	250.3	299.8	282.9	215.1	178.6	174.7
75°	6109.9	1965.8	206.0	196.8	173.4	208.6	265.9	241.2	164.3	131.7	127.8
77.5°	1989.3	685.7	151.2	144.7	129.1	168.2	226.8	203.4	134.3	104.3	100.4
80°	533.2	207.3	103.0	95.2	83.4	125.1	179.9	161.6	96.5	67.8	66.5
82.5°	213.8	87.3	60.0	53.4	45.6	86.0	142.1	130.4	71.7	43.0	43.0
85°	69.1	28.7	22.2	16.9	20.9	53.4	84.7	88.6	50.8	22.2	16.9
87.5°	9.1	3.9	3.9	5.2	3.9	9.1	26.1	24.8	14.3	2.6	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)