

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: P940935

Luminaire Tested: **GALN-SB4B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20741 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

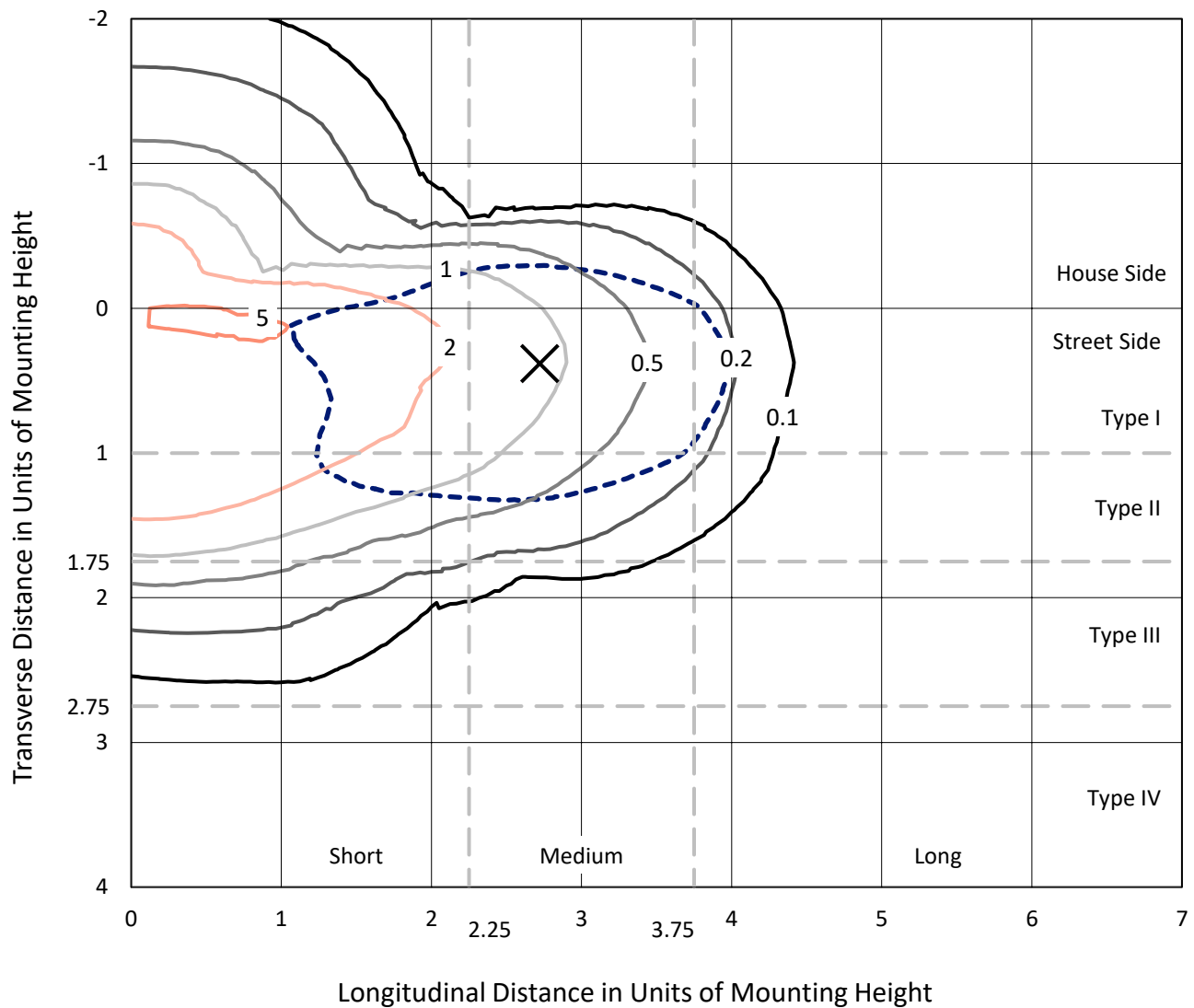


REPORT NUMBER: P940935

CATALOG NUMBER: GALN-SB4B-727-U-T2

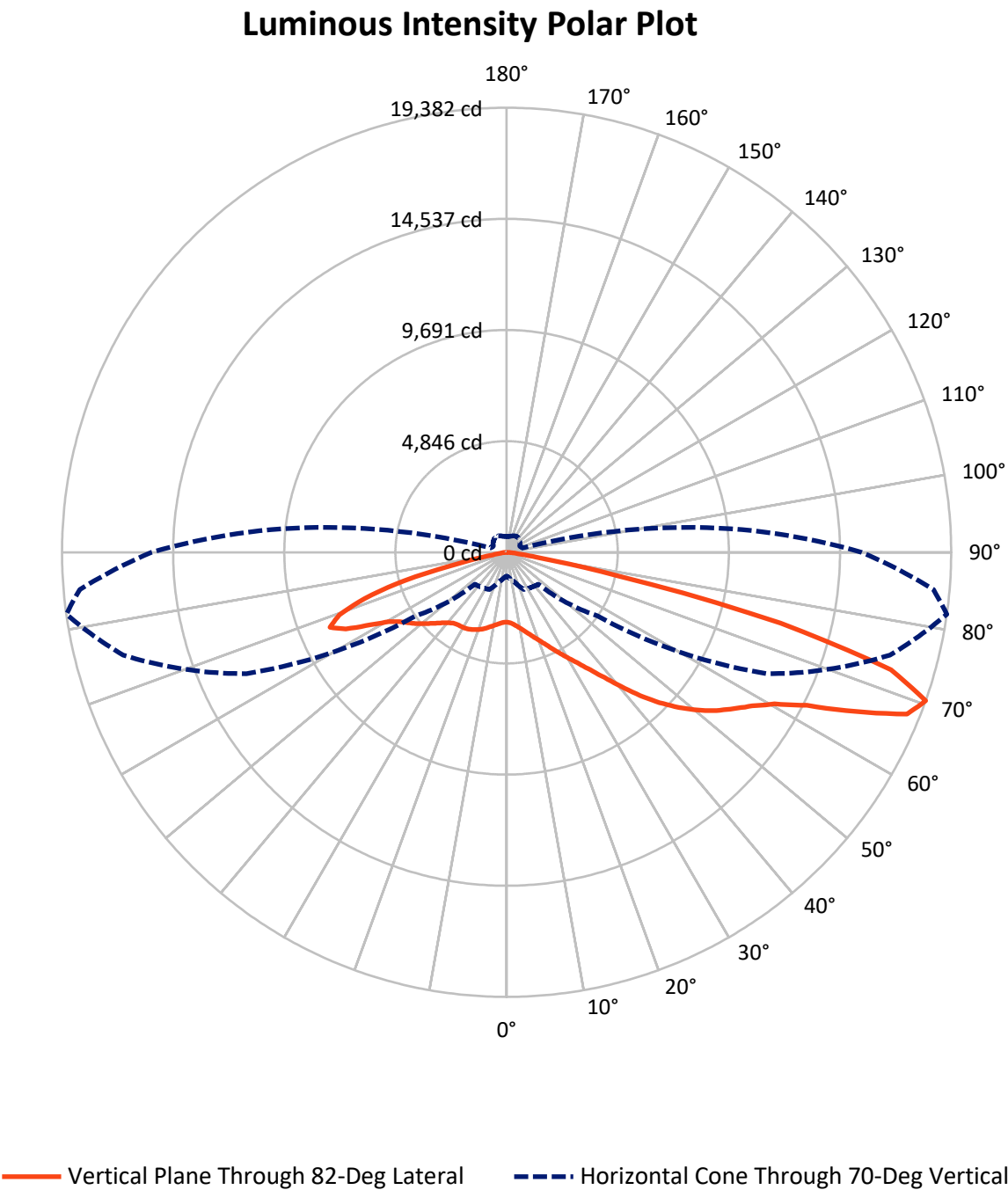
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

REPORT NUMBER: P940935
CATALOG NUMBER: GALN-SB4B-727-U-T2



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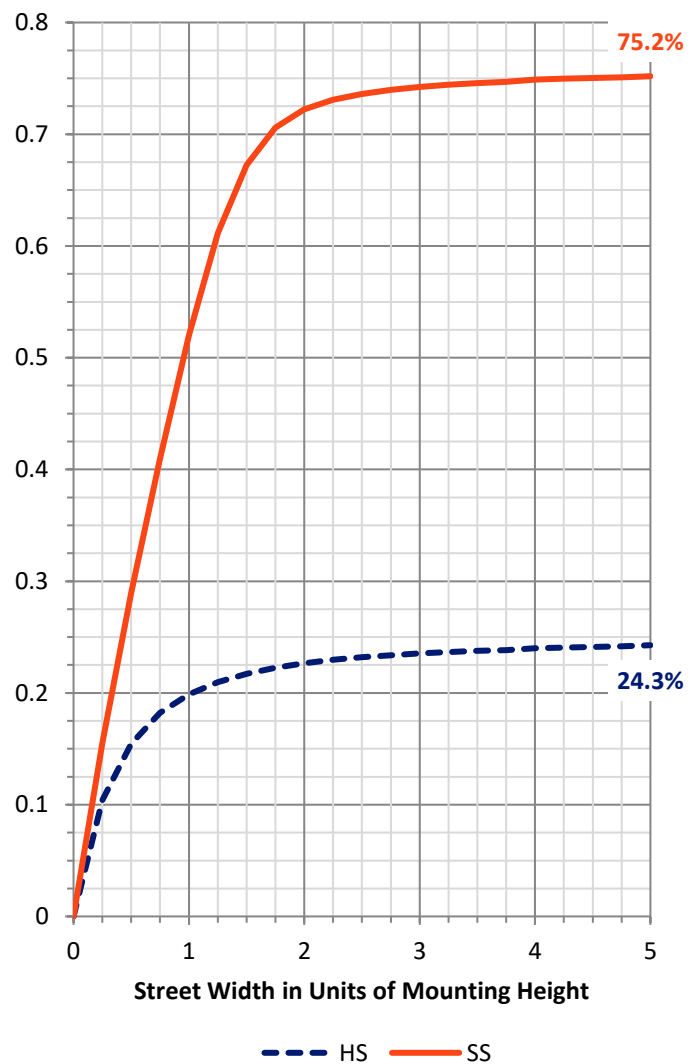
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5113.2	0.0	5113.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15627.8	0.0	15627.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	20741.0	0.0	20741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.4
10°-20°	824.9	4.0
20°-30°	1380.0	6.7
30°-40°	2155.9	10.4
40°-50°	3433.5	16.6
50°-60°	4778.1	23.0
60°-70°	4998.1	24.1
70°-80°	2612.3	12.6
80°-90°	271.3	1.3
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°	20741.0	100.0
0°-180°	20741.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940935

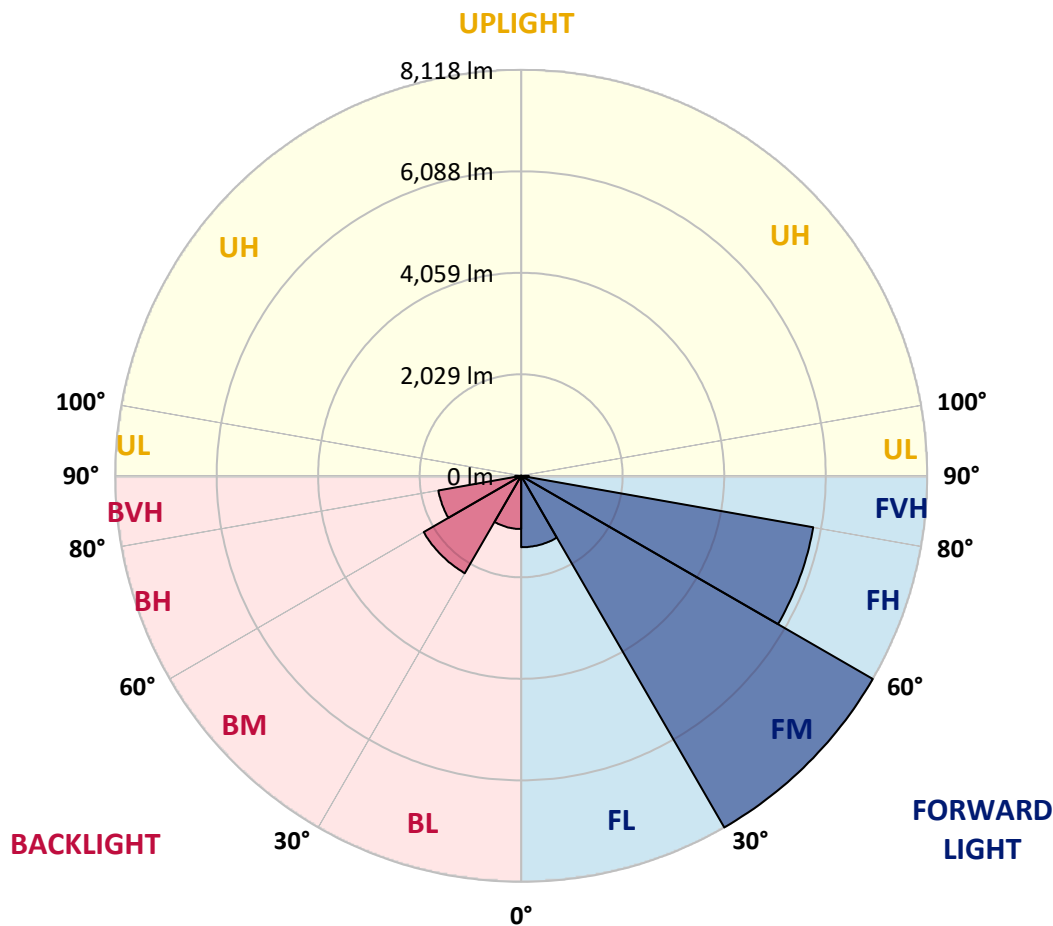
CATALOG NUMBER: GALN-SB4B-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.3	6.9			
FM	(30°-60°)	8117.8	39.1			
FH	(60°-80°)	5929.9	28.6			G3/7500
FVH	(80°-90°)	151.8	0.7			G2/225
BL	(0°-30°)	1063.7	5.1	B3/2500		
BM	(30°-60°)	2249.6	10.8	B2/2500		
BH	(60°-80°)	1680.4	8.1	B3/2500		G3/2500
BVH	(80°-90°)	119.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P940935

CATALOG NUMBER: GALN-SB4B-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9
2.5°	3113.5	3131.1	3125.6	3120.1	3120.1	3112.4	3111.3	3100.3	3091.5	3077.2	3073.9
5°	3153.1	3171.9	3169.7	3174.1	3188.4	3191.7	3195.0	3188.4	3170.8	3153.1	3145.4
7.5°	3117.9	3138.8	3145.4	3171.9	3215.9	3255.5	3285.2	3297.3	3280.8	3255.5	3243.4
10°	2999.1	3022.2	3045.3	3108.0	3186.2	3279.7	3359.0	3406.3	3403.0	3378.8	3357.9
12.5°	2758.0	2782.3	2831.8	2953.9	3097.0	3262.1	3409.6	3508.6	3542.8	3525.1	3488.8
15°	2565.4	2586.4	2623.8	2749.2	2935.2	3186.2	3428.3	3620.9	3707.8	3697.9	3653.9
17.5°	2559.9	2568.7	2591.9	2651.3	2794.4	3067.3	3408.5	3731.0	3897.1	3896.0	3841.0
20°	2656.8	2660.1	2673.3	2685.4	2766.8	2977.1	3357.9	3822.3	4109.5	4109.5	4050.1
22.5°	2791.1	2788.9	2802.1	2791.1	2830.7	2969.4	3325.9	3902.6	4346.2	4363.8	4288.9
25°	2992.5	2981.5	2978.2	2952.8	2960.5	3040.9	3361.2	3994.0	4626.8	4663.1	4569.6
27.5°	3261.0	3243.4	3231.3	3173.0	3153.1	3188.4	3469.0	4104.0	4939.4	5002.1	4883.3
30°	3611.0	3579.1	3561.5	3460.2	3388.7	3394.2	3631.9	4250.4	5266.3	5367.5	5216.7
32.5°	4088.6	4039.1	3991.8	3825.6	3694.6	3651.7	3842.1	4452.9	5620.6	5782.4	5588.7
35°	4623.5	4583.9	4533.3	4276.8	4075.4	3976.4	4126.1	4735.8	6035.6	6292.0	6040.0
37.5°	5138.6	5104.5	5128.7	4783.1	4523.4	4379.2	4498.1	5115.5	6547.3	6925.9	6605.7
40°	5671.3	5644.9	5648.2	5318.0	5015.3	4853.5	4949.3	5592.0	7133.9	7679.8	7285.8
42.5°	6250.2	6230.4	6164.3	5871.6	5531.5	5380.7	5468.8	6142.3	7763.5	8538.3	8032.0
45°	6898.4	6886.3	6824.7	6489.0	6099.4	5929.9	6048.8	6749.8	8396.3	9346.1	8781.5
47.5°	7458.6	7468.5	7460.8	7178.0	6774.0	6525.3	6667.3	7383.8	8985.1	10105.5	9500.2
50°	7728.2	7780.0	7855.9	7767.9	7516.9	7263.8	7291.3	7995.7	9546.4	10817.6	10189.1
52.5°	7587.4	7685.3	7892.2	8033.1	8130.0	8077.1	8003.4	8603.2	10074.7	11460.3	10840.7
55°	7062.4	7200.0	7543.3	7883.4	8377.6	8761.7	8858.5	9276.8	10589.7	12026.0	11457.0
57.5°	6106.0	6329.4	6637.6	7325.4	8157.5	9093.0	9855.7	10211.1	11135.6	12630.2	12101.9
60°	4466.1	4765.5	5148.5	6172.0	7387.1	8915.8	10704.2	11646.3	11911.5	13412.7	12941.7
62.5°	2858.2	3043.1	3395.3	4359.4	5756.0	8007.8	10963.9	13440.2	13226.7	14696.0	14200.7
65°	1956.8	2075.7	2398.2	2939.6	3721.0	5960.7	10268.4	14785.1	15315.6	16729.8	16353.5
67.5°	1421.9	1512.2	1787.3	2261.7	2424.6	3527.3	7968.2	14723.5	17346.2	18825.3	18239.8
70°	1036.7	1100.6	1331.7	1787.3	1865.5	1962.3	4827.1	12515.7	17302.1	19382.2	18681.2
72.5°	768.2	812.2	967.4	1386.7	1510.0	1325.1	2389.3	9096.3	14867.7	17531.1	16968.7
75°	555.8	588.8	703.3	1061.0	1208.4	1009.2	1191.9	5315.8	10370.7	12331.9	12431.0
77.5°	424.8	450.1	525.0	777.0	967.4	757.2	739.6	2445.5	4917.4	4941.6	5218.9
80°	341.2	357.7	398.4	547.0	741.8	566.8	482.1	987.2	1554.0	1315.2	1380.1
82.5°	250.9	278.4	336.8	384.1	530.5	390.7	293.9	498.6	591.0	508.5	512.9
85°	143.1	161.8	203.6	275.1	339.0	238.8	168.4	221.2	275.1	225.6	201.4
87.5°	50.6	66.0	71.5	107.9	147.5	99.1	64.9	63.8	90.2	67.1	56.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940935

CATALOG NUMBER: GALN-SB4B-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9	3040.9
2.5°	3062.9	3057.4	3035.4	3005.7	2974.9	2945.1	2935.2	2914.3	2900.0	2892.3	2901.1
5°	3124.5	3106.9	3055.2	2989.2	2919.8	2845.0	2792.2	2743.7	2708.5	2675.5	2688.7
7.5°	3212.6	3181.8	3092.6	2977.1	2853.8	2729.4	2637.0	2566.5	2519.2	2488.4	2495.0
10°	3314.9	3267.6	3131.1	2958.3	2767.9	2589.7	2480.7	2420.2	2390.4	2373.9	2378.3
12.5°	3432.7	3365.6	3170.8	2915.4	2637.0	2433.4	2358.5	2340.9	2342.0	2343.1	2345.3
15°	3578.0	3484.4	3202.7	2821.9	2466.4	2313.4	2300.2	2328.8	2358.5	2372.8	2371.7
17.5°	3742.0	3609.9	3208.2	2667.8	2299.1	2236.4	2278.2	2339.8	2384.9	2404.8	2409.2
20°	3918.0	3737.6	3168.6	2449.9	2161.5	2173.6	2248.5	2327.7	2377.2	2402.6	2409.2
22.5°	4119.5	3874.0	3073.9	2221.0	2049.3	2105.4	2193.4	2270.5	2322.2	2347.5	2354.1
25°	4349.5	4027.0	2925.3	2028.4	1952.4	2028.4	2116.4	2180.2	2222.1	2245.2	2251.8
27.5°	4604.8	4186.6	2727.2	1875.4	1867.7	1949.1	2021.8	2071.3	2093.3	2110.9	2117.5
30°	4861.2	4331.9	2487.3	1759.8	1793.9	1871.0	1922.7	1944.7	1951.3	1954.6	1962.3
32.5°	5138.6	4457.3	2235.3	1664.1	1723.5	1795.0	1825.9	1835.8	1804.9	1784.0	1790.6
35°	5474.3	4591.6	1988.7	1588.1	1654.2	1715.8	1725.7	1716.9	1680.6	1637.7	1639.9
37.5°	5889.2	4758.9	1791.7	1534.2	1589.2	1630.0	1617.8	1615.6	1618.9	1568.3	1571.6
40°	6397.6	4976.8	1647.6	1492.4	1536.4	1545.2	1511.1	1529.8	1546.3	1469.3	1471.5
42.5°	6962.2	5239.8	1556.2	1463.8	1492.4	1471.5	1418.6	1439.6	1437.4	1336.1	1335.0
45°	7537.8	5526.0	1524.3	1442.9	1451.7	1409.8	1351.5	1357.0	1310.8	1219.4	1222.7
47.5°	8110.1	5833.0	1544.1	1425.2	1401.0	1353.7	1308.6	1284.4	1216.1	1147.9	1147.9
50°	8671.4	6155.5	1616.7	1390.0	1331.7	1304.2	1271.2	1228.2	1155.6	1097.3	1092.9
52.5°	9192.0	6480.2	1698.2	1331.7	1244.8	1261.3	1240.3	1190.8	1119.3	1059.9	1061.0
55°	9685.1	6804.9	1730.1	1251.4	1163.3	1223.8	1211.7	1120.4	1034.5	986.1	981.7
57.5°	10222.1	7195.6	1694.9	1149.0	1097.3	1180.9	1134.7	1033.4	983.9	947.6	944.3
60°	10966.1	7808.6	1618.9	1022.4	1034.5	1117.1	1037.8	996.0	942.1	901.4	899.2
62.5°	12202.1	8952.1	1496.8	897.0	960.8	1022.4	991.6	949.8	894.8	855.1	855.1
65°	14029.0	10541.3	1266.8	799.0	878.3	930.0	942.1	900.3	843.0	801.2	803.4
67.5°	15569.8	11538.4	958.6	717.6	793.5	855.1	889.3	848.5	788.0	747.3	748.4
70°	15485.1	10814.3	731.9	637.2	718.7	781.4	825.4	793.5	728.6	690.1	693.4
72.5°	13753.9	9046.7	592.1	555.8	642.7	704.4	757.2	733.0	666.9	629.5	629.5
75°	10104.4	6421.9	473.2	473.2	548.1	624.0	682.4	666.9	606.4	580.0	572.3
77.5°	4259.2	2694.2	370.9	392.9	455.6	536.0	608.6	614.1	561.3	594.3	539.3
80°	1132.5	742.9	282.8	309.3	357.7	442.4	529.4	527.2	469.9	439.1	408.3
82.5°	431.4	292.8	201.4	217.9	258.6	339.0	419.3	432.5	375.3	324.7	324.7
85°	166.2	125.5	124.4	131.0	150.8	224.5	317.0	328.0	282.8	239.9	247.6
87.5°	42.9	37.4	46.2	44.0	69.3	120.0	181.6	188.2	172.8	100.2	143.1
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)